COMMAND REFERENCE GUIDE

RUCKUS Edge Command Reference Guide, 2.2.0

Supporting RUCKUS Edge Software Release 2.2.0

Part Number: 800-73706-001 Rev A
Publication Date: December 2024

Export Restrictions

These products and associated technical data (in print or electronic form) may be subject to export control laws of the United States of America. It is your responsibility to determine the applicable regulations and to comply with them. The following notice is applicable for all products or technology subject to export control:

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.

Disclaimer

THIS CONTENT AND ASSOCIATED PRODUCTS OR SERVICES ("MATERIALS"), ARE PROVIDED "AS IS" AND WITHOUT WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED. TO THE FULLEST EXTENT PERMISSIBLE PURSUANT TO APPLICABLE LAW, COMMSCOPE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, FREEDOM FROM COMPUTER VIRUS, AND WARRANTIES ARISING FROM COURSE OF DEALING OR COURSE OF PERFORMANCE. CommScope does not represent or warrant that the functions described or contained in the Materials will be uninterrupted or error-free, that defects will be corrected, or are free of viruses or other harmful components. CommScope does not make any warranties or representations regarding the use of the Materials in terms of their completeness, correctness, accuracy, adequacy, usefulness, timeliness, reliability or otherwise. As a condition of your use of the Materials, you warrant to CommScope that you will not make use thereof for any purpose that is unlawful or prohibited by their associated terms of use.

Limitation of Liability

IN NO EVENT SHALL COMMSCOPE, COMMSCOPE AFFILIATES, OR THEIR OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, SUPPLIERS, LICENSORS AND THIRD PARTY PARTNERS, BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER, EVEN IF COMMSCOPE HAS BEEN PREVIOUSLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER IN AN ACTION UNDER CONTRACT, TORT, OR ANY OTHER THEORY ARISING FROM YOUR ACCESS TO, OR USE OF, THE MATERIALS. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, some of the above limitations may not apply to you.

Trademarks

CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks, and registered trademarks are the property of their respective owners.

Patent Marking Notice

For applicable patents, see www.cs-pat.com.

Contents

Contact Information, Resources, and Conventions

Contacting RUCKUS Customer Services and Support

The Customer Services and Support (CSS) organization is available to provide assistance to customers with active warranties on their RUCKUS products, and to customers and partners with active support contracts.

For product support information and details on contacting the Support Team, go directly to the RUCKUS Support Portal using https://support.ruckuswireless.com, or go to https://www.ruckusnetworks.com and select **Support**.

What Support Do I Need?

Technical issues are usually described in terms of priority (or severity). To determine if you need to call and open a case or access the self-service resources, use the following criteria:

- Priority 1 (P1)—Critical. Network or service is down and business is impacted. No known workaround. Go to the **Submit a Case** section.
- Priority 2 (P2)—High. Network or service is impacted, but not down. Business impact may be high. Workaround may be available. Go to the **Submit a Case** section.
- Priority 3 (P3)—Medium. Network or service is moderately impacted, but most business remains functional. Click the **CONTACT** tab at the top of the page and explore the **Self-Service Online Help** options.
- Priority 4 (P4)—Low. Requests for information, product documentation, or product enhancements. Click the **CONTACT** tab at the top of the page and explore the **Self-Service Online Help** options.

Open a Case

When your entire network is down (P1), or severely impacted (P2), call the appropriate telephone number listed below to get help:

- Continental United States: 1-855-782-5871
- Canada: 1-855-782-5871
- Europe, Middle East, Africa, Central and South America, and Asia Pacific, toll-free numbers are available at https://support.ruckuswireless.com/contact-us and Live Chat is also available.
- Worldwide toll number for our support organization. Phone charges will apply: +1-650-265-0903

We suggest that you keep a physical note of the appropriate support number in case you have an entire network outage.

Self-Service Resources

The RUCKUS Support Portal at https://support.ruckuswireless.com offers a number of tools to help you to research and resolve problems with your RUCKUS products, including:

- Technical Documentation—https://support.ruckuswireless.com/documents
- Community Forums—https://community.ruckuswireless.com
- Knowledge Base Articles—https://support.ruckuswireless.com/answers
- Software Downloads and Release Notes—https://support.ruckuswireless.com/#products_grid
- Security Bulletins—https://support.ruckuswireless.com/security

Using these resources will help you to resolve some issues, and will provide the Technical Assistance Center (TAC) with additional data from your troubleshooting analysis if you still require assistance through a support case or Return Merchandise Authorization (RMA). If you still require help, open and manage your case at https://support.ruckuswireless.com/case_management.

Document Feedback

RUCKUS is interested in improving its documentation and welcomes your comments and suggestions.

You can email your comments to RUCKUS at #Ruckus-Docs@commscope.com.

When contacting us, include the following information:

- Document title and release number
- Document part number (on the cover page)
- Page number (if appropriate)

For example:

- RUCKUS SmartZone Upgrade Guide, Release 5.0
- Part number: 800-71850-001 Rev A
- Page 7

RUCKUS Product Documentation Resources

Visit the RUCKUS website to locate related documentation for your product and additional RUCKUS resources.

Release Notes and other user documentation are available at https://support.ruckuswireless.com/documents. You can locate the documentation by product or perform a text search. Access to Release Notes requires an active support contract and a RUCKUS Support Portal user account. Other technical documentation content is available without logging in to the RUCKUS Support Portal.

White papers, data sheets, and other product documentation are available at https://www.ruckusnetworks.com.

Online Training Resources

To access a variety of online RUCKUS training modules, including free introductory courses to wireless networking essentials, site surveys, and products, visit the RUCKUS Training Portal at https://commscopeuniversity.myabsorb.com/. The registration is a two-step process described in this video. Create a CommScope account and then register for, and request access for, CommScope University.

Document Conventions

The following table lists the text conventions that are used throughout this guide.

TABLE 1 Text Conventions

Convention	Description	Example
`monospace`	Identifies command syntax examples	`device(config)# interface ethernet 1/1/6`
bold	User interface (UI) components such as screen or page names, keyboard keys, software buttons, and field names	On the **Start** menu, click **All Programs**.
italics	Publication titles	Refer to the *RUCKUS Small Cell Release Notes* for more information.

Notes, Cautions, and Safety Warnings

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

NOTE
A NOTE provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

ATTENTION
An ATTENTION statement indicates some information that you must read before continuing with the current action or task.

CAUTION
A CAUTION statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.

DANGER
A DANGER statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

Command Syntax Conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
bold text	Identifies command names, keywords, and command options.
italic text	Identifies a variable.
[ ]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{**x**| **y**| **z**}	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x|**y**	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, *member*[*member*...].
\	Indicates a “soft” line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

About This Guide

Introduction

This *RUCKUS Edge Command Reference Guide* contains the syntaxes and commands for configuring and managing RUCKUS Edge (collectively referred to as “the device” throughout this guide) from the command line interface.

This guide is written for service operators and system administrators who are responsible for managing, configuring, and troubleshooting RUCKUS devices. Consequently, it assumes a basic working knowledge of local area networks, wireless networking, and wireless devices.

> **NOTE**
> If release notes are shipped with your product and the information there differs from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the support site at https://support.ruckuswireless.com/contact-us

Using the RUCKUS Edge Command Line Interface

Accessing the CLI

You can access the Command Line Interface (CLI) through a direct serial connection, which involves connecting your computer directly to the device using a serial cable. Alternatively, you can initiate a remote SSH connection, which allows you to securely connect to the device over a network, providing greater flexibility and convenience, especially when managing devices that are not physically accessible.

Command Mode

The RUCKUS Edge Command Line Interface (CLI) is designed as a hierarchical, shell-like interface that facilitates user interaction with the system. It operates in two distinct modes: basic and advanced. The basic mode offers a simplified access level, suitable for general users who need to perform routine tasks without delving into complex configurations. On the other hand, the advanced mode provides a more comprehensive access level, allowing experienced users and administrators to interact with the system and software submodules in greater depth, enabling detailed configuration and troubleshooting capabilities.

Basic Mode

Basic mode is the default mode for the device. It supports the lowest level of user permissions. In this mode, you can execute basic commands such as `show` and `support-*`. The following example shows the basic mode after login. The `enable` command enters advanced mode.

```
Edge> enable
Edge#
```

Advanced Mode

Advanced mode supports more commands for system operations and accessing software submodules. The following example shows the advanced mode prompt and accessing the `system` software submodule

```
Edge# system
(system)#
```

Generic Command Options

Across the RUCKUS Edge devices there are few command options that have the same or similar functionality.

To avoid repetition and to keep the command syntax looking less complex, generic command options are introduced. These options appear under the **help** on the console for many commands in various modes.

The following table describes the generic command options.

TABLE 2 Generic Command Options

Command Option	Description	Mode
enable	Enters advance CLI mode.	Basic mode
enroll-device	Enrolls device.	Basic mode
exit	Exits the RUCKUS Edge host CLI	Basic mode
show	Displays all the show commands associated with the mode	Basic mode
help	Displays the help text for the current command.	Basic mode

Command Help

You can display command information in any mode with the `help` command.

```
Edge> help
  Edge Command Line Interface

  Available Commands:
      enable            Enter advanced CLI mode
      exit              Exit the Edge host CLI
      help              Help about any command
      set               Set
      show              Show
      support-core      Collect core-dump related info
      support-export    Export debug related info
      support-log       Collect debug log related info
Edge# help show
  Show

  Available Commands:
      internal-network  Show current internal network settings
      license           Show license information
      manager           Manager
      serial            Show serial number
      version           Show OS version
Edge# help show serial
  Show serial number

  Available Commands:
      qrcode       Show serial number QR code
Edge# help show serial qrcode
  Show serial number QR code
```

Command Completion

Command completion allows you to run a command by entering a partial string. To automatically complete commands or keywords, start typing and then press **Tab**. For example, in advanced mode, type `sh` and press **<TAB>** once; the CLI completes it to `show`. Press **<TAB>** twice; the CLI completes it to `shutdown`. Press **<TAB>** three times; the CLI returns to `sh`.

```
Edge# sh<TAB>
Edge# show

Edge# sh<TAB><TAB>
Edge# shutdown

Edge# sh<TAB><TAB><TAB>
Edge# sh
```

The command completion iteratively provides available subcommands by pressing the **<TAB>** key. For example, in advanced mode, type `show` followed by a space and press **<TAB>** once. A subcommand, `internal-network`, is automatically appended. Press **<TAB>** again, and the subcommand is replaced by `license`. If you continue this process, the available subcommands of `show` will be iteratively appended to the end of the `show` command.

```
Edge# show <TAB>
Edge# show internal-network<TAB>
Edge# show license<TAB>
Edge# show manager<TAB>
Edge# show serial<TAB>
Edge# show version<TAB>
Edge# show
```

Utilizing command completion can significantly enhance the efficiency and accuracy of command execution within the RUCKUS Edge CLI.

```
Edge# sh<TAB>
Edge# show m<TAB>
Edge# show manager s<TAB>
Edge# show manager status
```

Commands C and D

cfgmgr

Configures devices and displays status.

Syntax

cfgmgr

Command Default

Modes

Advanced mode

Usage Guidelines

Use this command to enter the Config Manager mode from the Advanced mode. After entering the Config Manager mode, you can manage log configurations such as CCM log and syslog levels for the configuration manager and view configuration status and history.

Examples

The following example shows how to enter the Configuration Manager mode to manage log configurations and view configuration status and history.

```
Edge# cfgmgr

(cfgmgr)# help
CLI - Config Manager configuration and status.

Usage:
  (cfgmgr)# [command]

Available Commands:
  exit        Exit the system mode.
  help        Help about any command
  set         set configuration
  show        Show information

Flags:
  -h, --help   help for (cfgmgr)#

Use "(cfgmgr)# [command] --help" for more information about a command.
```

History

Release version	Command history
1.0.0	This command was introduced.

cluster

Provides access to cluster mode for managing the cluster and viewing its status, including operational data and system health.

Syntax

cluster

Command Default

Cluster is not configured.

Modes

Advanced mode

Usage Guidelines

Use this command to enter the Cluster mode from the Advanced mode. After entering the Cluster mode, you can view operational data, system status, and initiate a switch-over between active and standby nodes.

Examples

The following example shows how to enter the Cluster mode to initiate a switch-over between active and standby nodes and check the status of a device's cluster.

```
Edge# cluster
(cluster)# --help
  CLI - Cluster Management

Available Commands:
  exit        Exit the system mode.
  help        Help about any command
  show        Show information
  switch-over Initiates a switch-over if the current node is Active
```

History

Release version	Command history
1.0.0	This command was introduced.

connect-agent

This command is used for check the connection status between the RUCKUS Edge device and RUCKUS One.

Syntax

connect-agent

Command Default

Modes

Advanced mode

Command Output

The **connect-agent** command displays the following information.

Output field	Description
exit	Exits the system mode.
help	Provides further built-in commands.
set	Provides connection settings.
show	Displays information about current configuration of the command.

Usage Guidelines

Use this command to enter the Connect Agent mode from the Advanced mode. After entering the Connect Agent mode, you can check and manage the onboarding status of your RUCKUS Edge device.

Examples

```
Edge# connect-agent
(connect-agent)# help
CLI - Connection status and settings.

Available Commands:
  exit        Exit the system mode.
  help        Help about any command
  set         Connection setting
  show        Show information
```

History

Release version	Command history
1.0.0	This command was introduced.

create lag

Creates a Link Aggregation Group (LAG) by specifying a unique LAG ID.

Syntax

create lag *id* [**static** | **dynamic**]

Command Default

If the aggregation mode is not specified, dynamic LAG is created by default.

Parameters

id

Specifies a unique identifier for the LAG. The value ranges from 0 through 4.

static

Configures a static LAG, where interfaces are manually aggregated without using the Link Aggregation Control Protocol (LACP).

dynamic

Configures a dynamic LAG, which uses the Link Aggregation Control Protocol (LACP) to automatically aggregate interfaces.

Modes

Network mode

Usage Guidelines

Each LAG interface requires at least one physical interface as a member link. For more information on adding a member port, refer to lag add on page 29

Examples

The following example configures a static LAG.

```
Edge# network
Network # create lag 2 static
```

The following example configures a dynamic LAG.

```
Edge# network
Network # create lag 3
```

History

Release version	Command history
1.0.0	This command was introduced.

delete lag

Deletes a Link Aggregation Group (LAG).

Syntax

delete lag *id*

Parameters

id

Specifies the unique identifier of the LAG, used to target the specific LAG instance that needs to be deleted.

Command Default

A LAG is created.

Modes

Network mode

Usage Guidelines

Examples

The following example deletes an existing LAG.

```
Edge# network
Network # delete lag 2
```

History

Release version	Command history
1.0.0	This command was introduced.

dump-db

Dumps the Feature Flag (FF) database and Configuration Database (CfgDB) contents into the logs.

Syntax

dump-db

Command Default

Modes

FeatureFlag mode

Usage Guidelines

Use this command to generate log entries containing the database information, which can then be reviewed to verify system configurations or identify issues.

Examples

The following example dumps the contents of both the Feature Flag (FF) database and the Configuration Database (CfgDB) into the system logs.

```
Edge# featureflag
(feature-flag)# dump-db
Result: Successfully executed, Code: 0
```

History

Release version	Command history
1.0.0	This command was introduced.

Commands E through L

enroll-device

Enrolls new device to the platform.

Syntax

enroll-device

Modes

Basic mode

Advanced mode

Usage Guidelines

After receiving an OTP from RUCKUS One via mobile application or an E-mail, use the command **enroll-device** <*OTP*> to enroll the device with RUCKUS One.

Examples

```
Edge# enroll-device XEXGB8
accepts 1 arg(s), received 0
```

History

Release version	Command history
1.0.0	This command was introduced.

feature

Manages feature flags and allows you to enable, disable, or delete specific features.

Syntax

feature --action [**enable** | **disable** | **delete**] **--name** *feature-flag-name*

Parameters

--action
: Specifies to perform the action on the feature flag.

--enable
: Activates the specified feature flag.

--disable
: Deactivates the specified feature flag.

--delete
: Removes the feature flag from the system.

--name *feature-flag-name*
: Specifies the name of the feature flag to manage. For example, `myfeature` represents the feature that will be targeted by the action.

Modes

Feature Flag mode

Usage Guidelines

Examples

The following example enables feature flag named `myfeature`.

```
Edge# featureflag
(feature-flag)# feature --action enable --name myfeature
Result: The config tool manually triggered configuration successfully.
, Code: 200
```

History

Release version	Command history
1.0.0	This command was introduced.

featureflag

Manages Feature Flags (FF).

Syntax

featureflag

Command Default

FeatureFlag mode is not enabled.

Modes

Advanced mode

Usage Guidelines

Use this command to enter the Feature Flag mode from the Advanced mode. After entering the Feature Flag mode, you can enable, disable, or modify specific features and access commands to view feature flag statuses, manage feature flag settings, configure logging, and perform diagnostics.

Examples

The following example shows how to enter the Feature Flag mode to manage specific features.

```
Edge# featureflag
(feature-flag)# help
CLI - Feature Flag configuration and status.

Usage:
  (feature-flag)# [command]

Available Commands:
  dump-db     Dump FF DB and CfgDB in the logs
  exit        Exit the system mode.
  feature     Feature Flag Management
  help        Help about any command
  logfile     Set Feature Flag log into a file
  loglevel    Set Feature Flag Module log level
  show        Display Feature Flag Information

Flags:
  -h, --help   help for (feature-flag)#

(feature-flag)# dump-db
Result: Successfully executed, Code: 0

(feature-flag)# feature
Error: required flag(s) "action", "name" not set
Usage:
  (feature-flag)# feature [flags]

Flags:
  -a, --action string   Possible values: enable, disable, delete
  -h, --help            help for feature
  -n, --name string     example: myfeature

(feature-flag)# logfile
Error: required flag(s) "file" not set
Usage:
  (feature-flag)# logfile [flags]

Flags:
  -f, --file string   Path with file name: eg - /tmp/ff.log
  -h, --help          help for logfile

(feature-flag)# loglevel
Error: required flag(s) "level" not set
Usage:
  (feature-flag)# loglevel [flags]

Flags:
  -h, --help           help for loglevel
  -l, --level string   Possible values: panic, fatal, error, warning, info, debug, trace
```

History

Release version	Command history
1.0.0	This command was introduced.

lag add

Adds a member port to an existing Link Aggregation Group (LAG).

Syntax

lag add *id member-port* [**passive**] [**long-timeout**]

Command Default

Ports are not added to the LAG by default.

Parameters

id

Specifies the unique identifier of the LAG to which the member port will be added.

member-port

Specifies the port that will be added as a member of the LAG.

passive

Enables passive mode for LACP on the member port. In passive mode, the port only responds to LACP packets and does not initiate them, allowing the peer or partner device to control LACP negotiations.

long-timeout

Sets a longer timeout for LACP on the member port, which increases the amount of time between LACP packets to detect link failures. The value of this timeout is 90 seconds. Hello packets are transmitted every 30 second. After 3 misses (3*30s = 90 seconds), the peer information is flushed and LACP state is declared as down.

Modes

Network mode

Usage Guidelines

Each LAG requires at least one physical interface as a member link.

A physical port can be part of only one LAG at any point of time.

The interfaces should be in the unconfigured state. It is recommended that the interfaces which are going to be part of the LAG should not have any prior configurations.

All the member interfaces of a LAG should be of the same speed. If the ports within a LAG is of different speeds after auto-negotiation, there is no check for the operational speed mismatch.

Non-PCI passthrough interfaces should not be configured as LAG member ports and are not a supported configuration. LAG is not supported with VMware® ESXi™ NIC teaming.

Modifying the LACP mode and timeout for an existing LAG can trigger LACP negotiation, potentially leading to traffic disruption.

Examples

The following example adds a member port to an existing LAG.

```
Edge# network
Network # lag add 2 port1 passive
```

History

Release version	Command history
1.0.0	This command was introduced.

lag remove

Removes a member port from Link Aggregation Group (LAG).

Syntax

lag remove *member-port*

Command Default

Ports are not added to the LAG by default.

Parameters

member-port

Specifies the port to be removed from LAG.

Modes

Network mode

Usage Guidelines

Examples

The following example removes a member port from LAG.

```
Edge# network
Network # lag remove port1
```

History

Release version	Command history
1.0.0	This command was introduced.

logfile

Configures the file location where Feature Flag logs are stored.

Syntax

logfile --file *file-path-name*

Parameters

--file *file-path-name*

Specifies the full file path and name where the log file is stored.

Modes

Feature Flag mode

Usage Guidelines

Examples

The following example set the log file path.

```
Edge# featureflag
(feature-flag)# logfile --file /tmp/ff.log
```

History

Release version	Command history
1.0.0	This command was introduced.

logging

Provides access to Log Manager CLI interface to configure logging settings and view the status of the logging system on the device.

Syntax

logging

Command Default

Modes

Advanced mode

Usage Guidelines

Use this command to enter the Logging mode from the Advanced mode. After entering the Logging mode, you can enable, disable, or modify specific features and access commands to adjust the log level, enable or disable log streaming, and view logging-related information for diagnostic and troubleshooting purposes.

Examples

The following example shows how to enter the Logging mode to configure logging settings and view the status of the logging system on the device.

```
Edge# logging
(logging)# help
CLI - Logging configuration and status.
Usage:
  (logging)# [command]

Available Commands:
  exit          Exit the system mode.
  help          Help about any command
  log-level     Set log level
  log-streaming Enable/Disable log streaming
  show          Display logging related Information
```

History

Release version	Command history
1.0.0	This command was introduced.

loglevel

Sets the logging level for the Feature Flag (FF).

Syntax

loglevel --level *log-level*

Parameters

--level

Specifies the log level. The level determines the severity of messages that are logged.

log-level

Specifies the severity of messages that are logged, with one of the following values: **fatal**, **error**, **warning**, **info**, **debug**, and **trace**

Modes

Feature Flag mode

Usage Guidelines

Examples

The following example sets the log level to `info`.

```
Edge# featureflag
(feature-flag)# loglevel --level info
```

The following example sets the log level to `debug`.

```
Edge# featureflag
(feature-flag)# loglevel --level debug
```

History

Release version	Command history
1.0.0	This command was introduced.

log-streaming

Manages streaming of logs to RUCKUS One.

Syntax

log-streaming [**flags**]

log-streaming --action { **enble** | **disable** } **--duration** *duration in minutes* **--pod** *pod-name* **--pod** *pod-name*

Parameters

flags

Refers to the parameters that enables streaming of logs to RUCKUS One.

Modes

Logging mode

Usage Guidelines

The flags allow you to specify options to configure streaming of logs to RUCKUS One.

- --action (or -a): Specifies the action to perform for log streaming. The possible values are:
  - **enable**: Activates log streaming to RUCKUS One.
  - **disable**: Stops log streaming.
- --duration (or -d): Defines the duration in minutes for which log streaming should be enabled. The value ranges from 1 through 30 minutes.
- --pod (or -p): Specifies the pod from which logs will be streamed. Multiple pods can be specified using this flag.
- --help (or -h): Displays help information for the **log-streaming** command.

Examples

The following example enables log streaming for 10 minutes from the pods `seinfra-events` and `nats-0`.

```
Edge# logging
(logging)# log-streaming --action enable --duration 10 --pod seinfra-events --pod nats-0
```

History

Release version	Command history
1.0.0	This command was introduced.

Commands N and P

network

Enters the network configuration mode, providing access to perform network-related configurations and diagnostic operations.

Syntax

network

Command Default

The network mode is not enabled.

Modes

Advanced mode

Usage Guidelines

Use this command to enter the Network mode from the Advanced mode. After entering the Network mode, you can configure network interfaces, manage link aggregation (LAG), run diagnostics (for example, ping, traceroute, and nslookup), capture network traffic, and view or modify advanced network settings like DHCP, DNS, and VXLAN configurations.

Examples

The following example shows how to enter the Network mode from the Advanced mode.

```
Edge> enable
Password:
Edge# network
Network # help
Avaliable Command:
  ?
  clear vxlan-gpe tunnel keepalive session statistics
  create lag
  delete lag
  exit
  help
  lag add
  lag remove
  nslookup
  packet-capture filter
  packet-capture save
  packet-capture start
  packet-capture status
  packet-capture stop
  ping
  set default gateway
  set dns server
  set interface ip address
  set interface state
  set log level
  show default gateway
  show dhcp client
  show dns server
  show hqos bw_profile
  show hqos interface
  show hqos queue
  show interface address
  show lacp
  show lag
  show log level
  show peer-tunnel
  show pin-info
  show pin-pan
  show route
  show sdlan config
  show sdlan counters
  show sdlan info
  show sdlan peer
  show sdlan summary
  show tunnel profile
  show version
  show vxlan config
  show vxlan dstats
  show vxlan pmtu table
  show vxlan tunnel
  show vxlan tunnel profile
  show vxlan-gpe config
  show vxlan-gpe dstats
  show vxlan-gpe pmtu table
  show vxlan-gpe tunnel
  show vxlan-gpe tunnel keepalive session
  start dhcp client
  stop dhcp client
  traceroute
For Detail Information: [command] help
  e.g. set interface help
```

History

Release version	Command history
1.0.0	This command was introduced.

nslookup

Performs a lookup on the domain name system (DNS) for the domain name.

Syntax

nslookup *domain*

Parameters

domain

Specifies the domain name.

Modes

Network configuration mode

Usage Guidelines

TBD

Examples

The following example performs a lookup on the DNS for the domain name, ruckus.com.

```
Edge# network
Network# nslookup ruckus.com
[199.83.134.46 192.230.66.46]
```

History

Release version	Command history
1.0.0	This command was introduced.

packet-capture filter

Configures packet capture filters on the network device.

Syntax

packet-capture filter [**list_rule**] [**clean**] [**vlan** *vlan*] [**src_mac** *mac*] [**dst_mac** *mac*] [**src_ip** *ip*] [**dst_port** *port*] [**L2_proto** *proto*] [**L3_proto** *proto*]

Command Default

Packet capture filter is not configured.

Parameters

list_rule
: Lists the existing packet capture filters.

clean
: Clears all existing packet capture filters

vlan *vlan*
: Specifies the VLAN ID to match.

src_mac *mac*
: Specifies the source MAC address to match.

src_ip *ip*
: Specifies the source MAC address to match. The MAC address must be specified in the MAC format: AA:BB:CC:DD:EE:FF format.

dst_port *port*
: Specifies the destination MAC address to match. The MAC address must be specified in the MAC format: AA:BB:CC:DD:EE:FF format.

L2_proto *proto*
: Specifies the Layer 2 protocol Address Resolution Protocol (ARP) to match.

L3_proto *proto*
: Specifies the Layer 3 protocols such as ICMP, IGMP, TCP , or UDP to match.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The following example configures the packet-capture filter.

```
Edge# network
Network# packet-capture filter src_ip 1.1.1.1 dst_ip 2.2.2.2
Packet capture filter rule applies success
Network# packet-capture filter vlan 100
Packet capture filter rule applies success
```

History

Release version	Command history
1.0.0	This command was introduced.

packet-capture save

Downloads the packet capture (.pcap) file using TFTP or FTP.

Syntax

packet capture save [**sftp** | **ftp** *server_ip username password server_path*

Parameters

tx
: Captures transmitted packets.

rx
: Captures received packets.

drop
: Captures dropped packets

sftp
: Specifies the Secure File Transfer Protocol (SFTP) to use for transferring the file.

ftp
: Specifies the File Transfer Protocol (FTP) to use for transferring the file.

server_ip
: Specifies the IPv4 address of the SCP server or the TFTP server.

username
: Specifies the username to authenticate with the remote server.

password
: Specifies the password associated with the username.

server_path
: Specifies the path on the remote server where to save the .pacp file.

Modes

Network configuration mode

Usage Guidelines

Examples

The following example downloads the .pcap file from RUCKUS Edge using SFTP.

```
Network# packet-capture save sftp 10.206.82.63 username password /upload
Captured file found, start sftp upload...
packet-capture.pcap       | 1653 kB | 1653.2 kB/s | ETA: 00:00:00 | 100%
```

History

Release version	Command history
1.0.0	This command was introduced.

packet-capture start

Starts capturing packet data into a buffer.

Syntax

packet-capture start [**tx**] [**rx**] [**drop**] [**max** *num_of_captured_packet* | *1-50000*] [**interface** *interface*]

Parameters

max *num_of_captured_packet* | *1-50000*

Specifies the maximum number of packets to capture. The valid range is 1 through 50000 packets.

interface *interface*

Specifies the username to authenticate with the remote server.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example stops capturing packet data into a buffer.

```
Network# packet-capture start
Your packet capture is running in filter mode
Packet capture start...
```

History

Release version	Command history
1.0.0	This command was introduced.

packet-capture status

Displays the status of the packet capture feature.

Syntax

packet-capture status

Command Default

The packet capture feature is not active.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example displays the status of the packet-capture feature.

```
Network# packet-capture status
Capture enabled: 2410 of 50000 pkts...
```

History

Release version	Command history
1.0.0	This command was introduced.

packet-capture stop

Stops capturing packet data into a buffer.

Syntax

packet-capture stop

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example stops capturing packet data into a buffer.

```
Network# packet-capture stop
Write 3736 packets to packet-capture.pcap, and stop capture...
```

History

Release version	Command history
1.0.0	This command was introduced.

ping

Checks reachability of the device to the Internet or network manager such as RUCKUS One.

Syntax

ping {*ip-address* | *domain*} [**source** *interface*][**size** *datasize*] [**repeat** *count*] [**verbose**]

Parameters

ip-address
: Specifies the IPv4 address.

domain
: Specifies the domain name.

source *interface*
: Specifies the source interface be used as the origin of the ping packets.

size *datasize*
: Specifies the data size of the packet. The valid range is from 18 through 1500.

repeat *count*
: Specifies the number of ping packets to sends.

verbose
: Enables verbose output, which includes the time it took for each ping packet to be sent and received, and the packet loss percentage.

Modes

Network configuration mode

Usage Guidelines

Examples

The following example checks if the device is accessible on the network.

```
Edge# network
Network# ping 192.168.1.1
Sending 1, 16-byte ICMP Echo to 192.168.1.1, timeout 5000 msec, TTL 64
Type Control-c to abort
Reply from 192.168.1.1 : bytes=16 time=2ms TTL=64
Success rate is 100 percent (1/1), round-trip min/avg/max=2/2/2 ms.
```

History

Release version	Command history
1.0.0	This command was introduced.

Commands R through Se

reboot

Reboot the system.

Syntax

reboot

Modes

Advanced mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Edge-VM-1-867# reboot
Proceeding reboot to recover the device (yes/N)?
```

History

Release version	Command history
1.0.0	This command was introduced.

rproxy

Displays rproxy information.

Syntax

rproxy

Modes

Advanced mode

The following example shows sample output for the **rproxy** command.

Examples

```
Edge# rproxy
I0825 10:43:05.398815
9 command.go:51] "Print basic info about the application" version="unknown"
goVersion="go1.20.5" gitCommit="41221751147e2f4e1e73fe64d4d4631a41a867c9c"
buildTime="2023-06-28T06:10:41+0000" compiler="gc" os="linux" arch="amd64" cores=2
2023/08/25 10:43:05 error: Config File "config" Not Found in "[/app]"
I0825 10:43:05.399301
9 main.go:29] "config ready" log-level=""
```

History

Release version	Command history
1.0.0	This command was introduced.

set resource-manager configuration

Sets the resource manager configuration.

Syntax

set resource-manager configuration {**data-plane cpu** *cpu-num* | **default**}

Command Default

Resouce manager configuration is not set.

Parameters

data-plane cpu *cpu-num*

Configures the CPU settings for the dataplane of the device.

default

Sets resource-manager all resource back to default configuration.

Modes

Resource manager configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example configures the dataplane CPU.

```
Network# resource-manager
(resource-manager)# set data-plane cpu configuration
Setting these configurations might cause network disconnection. Do you want to proceed?
(y/N)
```

History

Release version	Command history
1.0.0	This command was introduced.

show resource-manager information

Displays the current resource manager configuration.

Syntax

show resource-manager information resource-config

Parameters

resource-config

Specified the current resource-manager configuration.

Modes

Resource manager configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example resets the all configuration of the device.

```
Network# resource-manager
(resource-manager)# show resource-manager information resource-config
Resource Info:
====================
Node Resources:
  Node Allocatable CPU: 2000m
  Node Unallocated CPU: 0m

Configured Resources:
  System CPU resource: 750m
  Data-Plane CPU resource: 1250m

Applied Resources:
  Application Name: System
    Utilized CPU: 750m
    Attached with CPU ID: 0
  Application Name: Data-Plane
    Utilized CPU: 1250m
      Control plane CPU resource: 250m
      Data plane CPU resource: 1000m
    Attached with CPU IDs: 1,11

(CPU resource type is in unit m: millicore)
```

History

Release version	Command history
1.0.0	This command was introduced.

reset

Resets the configuration.

Syntax

reset

[**configuration**|**golden**]

Modes

Advanced mode

configuration

Resets device configuration.

golden

Resets device to golden version.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Edge# reset
  Reset

  Available Commands:
      configuration Reset device configuration
      golden        Reset device to golden version

Edge# reset configuration
? Warning: Resetting the system configuration will erase all current settings and cannot be recovered.
This action may cause system instability or data loss.
Are you absolutely sure you want to proceed with resetting the configuration and rebooting?
Note that this operation will automatically reboot the system on success.
(reset/N)
reset/N
Command execution cancelled.

Edge# reset golden
? Warning: The system will load golden default version. All configurations and data will be erased.
This action may cause system instability or data loss.
Are you sure you want to proceed with resetting the system to golden default and rebooting?
Note that this operation will automatically reboot the system on success.
(reset/N)
reset/N
Command execution cancelled.
```

History

Release version	Command history
1.0.0	This command was introduced.

set cfgmgr

Configures the config manager setting to manage log configurations such as CCM log and syslog levels.

Syntax

set cfgmgr [**ccmlog** *value* | **syslog**]

Command Default

Parameters

ccmlog *value*

Enables or disables the CCM log, where the *value*specifies the action.

- **1**: Enables CCM log.
- **0**: Disables CCM log.

syslog

Sets the syslog log level for the configuration manager.

Modes

Config Manager mode

Usage Guidelines

Examples

The following example enables CCM log.

```
Edge# cfgmgr
(cfgmgr) # set cfgmgr ccmlog 1
```

The following example enables syslog.

```
Edge# cfgmgr
(cfgmgr) # set cfgmgr syslog
```

History

Release version	Command history
1.0.0	This command was introduced.

set dns server

Configures or deletes the Domain Name System (DNS) server on RUCKUS Edge.

Syntax

set dns server [**del**] *ipv4-address*

Command Default

The DNS server is not configured.

Parameters

del

Deletes the specified DNS server from the list of configured servers.

ipv4-address

Specifies the IPv4 address of the DNS server you want to add or delete.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example configures the IP address of the DNS server.

```
Network# set dns server 192.95.1.1
```

This example deletes the IP address of the DNS server.

```
Network# set dns server del 192.95.1.1
```

History

Release version	Command history
1.0.0	This command was introduced.

set default gateway

Configures the default gateway for your device.

Syntax

set default gateway [**del**] *dst ipv4-address*

Command Default

The default gateway is not configured.

Parameters

del

Deletes the specified default gateway.

dst ipv4-address

Specifies the destination IPv4 address of the default gateway.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example configures the default gateway with the IP address 192.168.1.1.

```
Edge# network
Network# set default gateway 192.168.1.1
```

This example deletes the default gateway with the IP address 192.168.1.1.

```
Edge# network
Network# set default gateway del 192.168.1.1
```

History

Release version	Command history
1.0.0	This command was introduced.

set drs-address

Sets the RUCKUS Edge device to onboard the RUCKUS One controller.

Syntax

set drs-address *drs-address*

Command Default

Parameters

drs-address

Specifies the drs address.

Modes

Connect Agent mode

Command Output

The **set drs-address** command displays the following information.

Output field	Description
Set DRS address	Onboards the Edge device to the RUCKUS One controller.

Usage Guidelines

Use this command to Onboard the Edge device to the RUCKUS One controller from the Connect Agent mode.

Examples

```
Edge# connect-agent
(connect-agent)# set drs-address drsqa.ruckuswireless.com
Set DRS address (drsqa.ruckuswireless.com) successfully.
```

History

Release version	Command history
1.0.0	This command was introduced.

set interface IP address

Configures the IP address settings for the interface.

Syntax

set interface ip address [**del**] *ipv4-address/mask gateway*

Command Default

The interface IP is not configured

Parameters

del

Deletes the specified IPv4 address.

ipv4-address/mask

Specifies the IPv4 address and subnet mask for the interface.

gateway

Specifies the default gateway address.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example configures the IP address settings for the interface.

```
Edge# network
Network# set interface ip address port1 192.168.1.100/24 192.168.1.1
```

History

Release version	Command history
1.0.0	This command was introduced.

set interface state

Configures the operational state of an interface to up or down.

Syntax

set interface state *interface*{**up** |**down**}

Command Default

The interface state is not configured.

Parameters

interface

Specifies the interface.

up

Enables the interface.

down

Disables the interface.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example configures the operational state of the interface, port1 to up.

```
Edge# network
Network# set interface state port1 up
```

History

Release version	Command history
1.0.0	This command was introduced.

set internal-network

To set the internal network.

Syntax

set internal-network *ipv4-network*

Parameters

ipv4 network

Speicfy the internal IPv4 address.

Modes

Basic mode

Advanced mode

Usage Guidelines

If the RUCKUS Edge deployment environment and the RUCKUS Edge device use the same network, you can use the **set internal-network** command to change the internal services network, which helps to prevent conflicts. The command will automatically set the device internal network to subnet /16 network. It is important to make this change before enrolling the device with RUCKUS One.

The following example shows sample output for the **set internal-network** command.

Examples

```
Edge# set internal-network 10.128.0.0
Warning: Set internal network will erase all current settings and reboot the device.
The operation will set the device internal network to be 10.128.0.0/16.
Are you sure that you want to proceed with the setting and rebooting the device?
(yes/N)
```

After restarting the system, use the **show internal-network** command to verify if the changes have been applied.

```
Edge# show internal-network
Internal Network: 10.128.0.0/16
```

History

Release version	Command history
1.0.0	This command was introduced.

Show Commands

show

Displays the system information.

Syntax

show [**internal-network** *ip-address* | **license** | **manager status** | **serial** | **version**]

Modes

Basic mode

Advanced mode

internal-network
Retrieves the current internal network setting.

ip-address
Specify the IP address.

license
Displays the license information.

manager status
Displays the connection status.

serial
Displays the serial number.

version
Displays the version number of the operating system.

Modes

Basic mode

Advanced mode

Usage Guidelines

The following example shows sample output for the **show manager status** command.

Examples

```
Edge# show manager status
================================== network ==================================
port1 (LAN/up): 00:0c:29:48:85:71 10.12.13.17/24
port2 (LAN/up): 00:0c:29:48:85:7b 10.12.15.17/24
port3 (WAN/up): 00:0c:29:48:85:85 10.176.154.17/25
Default Gateway: 10.176.154.1
DNS Server: 8.8.8.8

================================ connect-agent ================================
----- RUCKUS One information -----
Edge is not managed by RUCKUS One
Connection agent state:  SETUP
Status:  RUCKUS Edge cannot get controller list.
Please check your RUCKUS Edge entry setting.
Nats Leaf status: OFFLINE
Server List:
DRS default URL:  registrar.ruckuswireless.com
--------------------------------
```

The following example shows sample output for the **show serial** command.

```
Edge# show serial
Device Serial: 964ACA206E07F411EF84A0000C29488571
```

The following example shows sample output for the **show internal-network** command.

```
Edge# show internal-network
Internal Network: 10.128.0.0/16
```

History

Release version	Command history
1.0.0	This command was introduced.

show (cluster)

Displays information about the cluster, including operational data and system status.

Syntax

show [**oper-data** | **status**]

Parameters

oper-data

Displays operational database information for debugging purposes.

status

Displays the current status of the cluster, including whether the system is in active or standby mode.

Modes

Cluster mode

Examples

The following example shows status in active node.

```
Edge-VM-1-867# cluster
(cluster)# show status
2024-04-03T20:33:43Z:cmutils.WaitForGenResp>  >Received from server:
96B4F3C397EB9E11EE82F6083571EAA26C:Reply:
=========  Configuration  =========
Node: Serial: 96B4F3C397EB9E11EE82F6083  IP: 11.0.0.0
Node: Serial: 962D1D2A56EB9E11EE88E0083  IP: 11.0.0.0
Cluster Name: R-Cluster  Cluster Id: 82d2e70f-ffe2-4d1d-a772-88cc4f0b  ClusterMode :
CM_MODE_ACTIVE_BACKUP

=========  Operational Status  =========
My Serial No: 96B4F3C397EB9E11EE82F6083571E
Role: Active RoleUpdTime: 2024-04-03T20:18:19Z
Cluster Details:
    Name: R-Cluster
    Id: 82d2e70f-ffe2-4d1d-a772-88cc45
    Mode: CM_MODE_ACTIVE_BACKUP
FSM Previous/Current: state 6/7 DataPlaneStart/StateReady event 17/1 EventFSMAudit/EventTimer
FSM VRRP Status Received: vrrp_status:<instance_id:246 vrrp_role:VRRP_ROLE_MASTER >  Acted:
vrrp_status:<instance_id:246 vrrp_role:VRRP_ROLE_MASTER >
Neighbor 1
    SN: 962D1D2A56EB9E11EE88E008 IP:11.0.0.0 Port: 3008 role: Backup state: 7/StateReady
    Rx Role Upd Time: 0001-01-01T00:00:00Z Role Upd Time: 2024-04-03T20:26:49Z State Upd Time:
2024-04-03T20:28:13Z
    cpu: 0 RAM:0 TxConn: 3 RxConn: 1 Connection Status:Connected
```

This example displays output of the **show oper-data** command

```
cluster)# show oper-data
Dumping Operational status data...
EdgeClusterMgrOper: {CM_STATUS_DP_HA_START 2 {} [] 0}
EdgeClusterMgrDPCmds: {CM_VRRP_CMD_START {} [] 0}
EdgeHAMgrVRRPOper: {[instance_id:14 vrrp_role:VRRP_ROLE_MASTER ] {} [] 0}
(cluster)#

(cluster)# show oper-data
Dumping Operational status data...
EdgeClusterMgrOper: {CM_STATUS_DP_HA_START 2 {} [] 0}
EdgeClusterMgrDPCmds: {CM_VRRP_CMD_START {} [] 0}
EdgeHAMgrVRRPOper: {[instance_id:14 vrrp_role:VRRP_ROLE_MASTER ] {} [] 0}
(cluster)#
```

History

Release version	Command history
1.0.0	This command was introduced.

show config-result-history

Displays the configuration history for each applied GPB.

Syntax

show config-result-history

Modes

Config Manager mode

Examples

The following example shows sample output for the **show config-result-history** command.

```
Edge-VM-1-867# cfgmgr
(cfgmgr)# show config-result-history
The Latest History Result
============ The Final Result:  ============
============ The Final Result: Success ============
 TimeStamp: Mon-Aug-26-2024-16:00:04
 Request Id: 9da07715-608f-4e12-80b7-704c8c69
 GPB Name: Edge
 GPB Result: Success

 TimeStamp: Mon-Aug-26-2024-16:00:04
 Request Id: 9da07715-608f-4e12-80b7-704c8c69
 GPB Name: EdgeClusterConfig
 GPB Result: Success

 TimeStamp: Mon-Aug-26-2024-16:00:05
 Request Id: 9da07715-608f-4e12-80b7-704c8c69
 GPB Name: Wlan
 GPB Result: Success

 TimeStamp: Mon-Aug-26-2024-16:00:05
 Request Id: 9da07715-608f-4e12-80b7-704c8c69fa48
 GPB Name: Zone
 GPB Result: Success

============ The Final Result: Success ============
 TimeStamp: Thu-Aug-22-2024-11:59:15
 Request Id: 9da07715-608f-4e12-80b7-704c8c69
 GPB Name: Edge
 GPB Result: Fail
 Failed Feature Name: None
 Failed Feature Attribute: None
 Failed Feature Attribute Value: 0
 Failed Reason: nosuchfieldforkey'applying_gpb:Edge'field'Edge_964ACA206E07F411EF84A0000C'

 TimeStamp: Thu-Aug-22-2024-11:59:15
 Request Id: 9da07715-608f-4e12-80b7-704c8c69
 GPB Name: EdgeClusterConfig
 GPB Result: Success

 TimeStamp: Thu-Aug-22-2024-11:59:15
 Request Id: 9da07715-608f-4e12-80b7-704c8c69
 GPB Name: Wlan
 GPB Result: Success

 TimeStamp: Thu-Aug-22-2024-11:59:15
 Request Id: 9da07715-608f-4e12-80b7-704c8c69fa48
 GPB Name: EdgeApps
 GPB Result: Success

 TimeStamp: Thu-Aug-22-2024-11:59:15
 Request Id: 9da07715-608f-4e12-80b7-704c8c69fa48
 GPB Name: EdgeDNS
 GPB Result: Success

============ The Final Result: Success ============
 TimeStamp: Wed-Aug-21-2024-19:31:53
 Request Id: c8d71d5b-580f-453a-b414-0c7aca3
 GPB Name: Wlan
 GPB Result: Success

 TimeStamp: Wed-Aug-21-2024-19:31:53
 Request Id: c8d71d5b-580f-453a-b414-0c7a
 GPB Name: Zone
 GPB Result: Success

============ The Final Result: Success ============
```

```
TimeStamp: Sat-Aug-03-2024-15:47:41
Request Id: 2167092e-39ca-46bc-b1df-019e20
GPB Name: Wlan
GPB Result: Success
```

History

Release version	Command history
1.0.0	This command was introduced.

show default gateway

Displays the default gateway of the ip route address.

Syntax

show default gateway

Modes

Network mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The following example shows sample output for the **show default gateway** command.

```
Network # show default gateway
10.206.67.254, metric=1
```

History

Release version	Command history
1.0.0	This command was introduced.

show dns server

Displays all the DNS servers.

Syntax

show dns server

Modes

Network mode

Examples

The following example shows sample output for the **show dns server** command.

```
network# show dns server
dns cache service Enable: (2/2/0/0)
ip4 name servers:
8.8.8.8
10.10.10.10
10.10.10.10
10.10.10.10
```

History

Release version	Command history
1.0.0	This command was introduced.

show (featureflag)

Displays information about feature flags.

Syntax

show --name [*feature-name* | **all**] **--option** { **configured** | **registered** }

Parameters

--name *feature-name*

Displays information about the specific feature flag.

--name all

Displays information about all available feature flags.

option

Defines the type of feature flag information to display.

configured

Displays all feature flags that are configured in the system (even if they are not registered).

registered

Displays all feature flags that are registered by clients, regardless of configuration status.

Modes

Feature Flag mode

Examples

The following example shows the feature-flag clients that are registered.

```
Edge-VM-1-867# featureflag
(feature-flag)# show --name all --option registered
Result: Successful, Code: 1
----------------------------------------
S.No  Name                Application
----------------------------------------
1     f1                  my-app
```

The following example shows all feature flags that are configured.

```
Edge-VM-1-867# featureflag
(feature-flag)# show --name all --option configured
Result: Successful, Code: 0
----------------------------------------
S.No  Name                 State
----------------------------------------
1     f1                  true
```

History

Release version	Command history
1.0.0	This command was introduced.

show gpb-decode-all

Displays the decode of all GPB (Google Protocol Buffers) messages applied during configuration.

Syntax

show gpb-decode-all

Modes

Config Manager mode

Examples

The following example shows sample output for the **show gpb-decode-all** command.

```
Edge-VM-1-867# cfgmgr
(cfgmgr)# show config-result-history
###### gpb name: EdgeNetworkConfig ######
###### EdgeNetworkConfig_964ACA206E07F411EF84A0000C29 unmarshal data ######
NetworkPorts:
        PortType:
                LAN_PORT_TYPE
        Name:
                port1
        Enabled:
                true
        Mac:
                00:0c:00:48:85:00
        Inet:
                ip:"10.10.10.10" subnet:"255.255.255.0"
        DhcpClientOptions:


        PortType:
                LAN_PORT_TYPE
        Name:
                port2
        Enabled:
                true
        Mac:
                00:0c:00:48:48:7c
        Inet:
                ip:"10.10.10.10" subnet:"255.255.255.0"
        DhcpClientOptions:


        PortType:
                WAN_PORT_TYPE
        Name:
                port3
        Enabled:
                true
        Mac:
                00:0c:00:45:43:85
        Inet:
                ip:"10.10.10.10" subnet:"255.255.255.128" gateway:"10.176.150.2"
        EnableNat:
                true
        DhcpClientOptions:
                opt3_router:true

###### gpb name: EdgeDNS ######
###### EdgeDNS_964ACA206E07F411EF84A0000C2 unmarshal data ######
NameServers:
        0.0.0.1
###### gpb name: EdgeClusterConfig ######
###### EdgeClusterConfig_e3b822f1-82e8-4ce3-8a63-6067 unmarshal data ######
ClusterName:
        Edge-VM-1
ClusterId:
        e3b822f1-82e8-0ee4-8a63-e7b359e5
ClusterMode:
        CM_MODE_ACTIVE_BACKUP
```

History

Release version	Command history
1.0.0	This command was introduced.

show interface address

Displays the interface address.

Syntax

show interface address

Modes

Network mode

Examples

The following example shows sample output for the **show interface address** command.

```
Edge-VM-1-867# network
Network# show interface address
local0 (dn):
loop1 (up):
  L3 10.254.2.241/30
loop2 (up):
  L3 10.254.2.245/30
port1 (up):
  L3 10.206.67.214/24
port2 (up):
tap0 (up):
  L3 10.254.1.254/24
```

History

Release version	Command history
1.0.0	This command was introduced.

show internal-network

Displays internal network settings.

Syntax

show internal-network

Modes

Basic mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Edge# show

  Available Commands:
      internal-network  Show current internal network settings
      license           Show license information
      manager           Manager
      serial            Show serial number
      version           Show OS version

Edge# show internal-network
Internal Network: 10.254.0.0/16
```

History

Release version	Command history
1.0.0	This command was introduced.

show lacp

Displays LACP configuration details and status.

Syntax

show lacp [*member-port*] [**details**]

Parameters

member-port

Displays LACP status of the member port.

details

Displays detailed information of LACP configuration and status, including advanced metrics such as port state, LACP priority, and partner informationinformation LACP status of the port including active members.

Modes

Network mode

Examples

The following example shows sample output for the **show lacp** command.

```
Edge-VM-1-867# network
Network# show lacp
                                                    actor state                      partner
state
interface name            sw_if_index  lag interface    exp/def/dis/col/syn/agg/tim/act
exp/def/dis/col/syn/agg/tim/act
port2                     2            lag0               0   0   1   1   1   1   1   1    0   0   1
1   1   1   0   1
  LAG ID: [(ffff,08-35-71-13-68-73,0004,00ff,0001), (0001,8c-7a-15-3a-fe-42,4e21,0001,0009)]
  RX-state: CURRENT, TX-state: TRANSMIT, MUX-state: COLLECTING_DISTRIBUTING, PTX-state: PERIODIC_TX
```

The following example shows sample output for the **show lacp port1 details** command.

```
Edge-VM-1-867# network
Network# show lacp port1 details
Number of interfaces: 2
  port1
    Good LACP PDUs received: 5616
    Bad LACP PDUs received: 0
    LACP PDUs sent: 197
    last LACP PDU received:        .44 seconds ago
    last LACP PDU sent:        .76 seconds ago
    Good Marker PDUs received: 0
    Bad Marker PDUs received: 0
    debug: 0
    loopback port: 0
    port_enabled: 1
    port moved: 0
    ready_n: 1
    ready: 1
    long timer: 0
    Actor
      system: 08:35:71:13:68:73
      system priority: 65535
      key: 6
      port priority: 255
      port number: 1
      state: 0x3f
        LACP_STATE_LACP_ACTIVITY (0)
        LACP_STATE_LACP_TIMEOUT (1)
        LACP_STATE_AGGREGATION (2)
        LACP_STATE_SYNCHRONIZATION (3)
        LACP_STATE_COLLECTIING (4)
        LACP_STATE_DISTRIBUTING (5)
    Partner
      system: 8c:7a:15:3a:fe:42
      system priority: 1
      key: 20001
      port priority: 1
      port number: 10
      state: 0x3d
        LACP_STATE_LACP_ACTIVITY (0)
        LACP_STATE_AGGREGATION (2)
        LACP_STATE_SYNCHRONIZATION (3)
        LACP_STATE_COLLECTIING (4)
        LACP_STATE_DISTRIBUTING (5)
      wait while timer: not running
      current while timer:       2.56 seconds
      periodic timer:      29.24 seconds
    RX-state: CURRENT
    TX-state: TRANSMIT
    MUX-state: COLLECTING_DISTRIBUTING
    PTX-state: PERIODIC_TX
```

History

Release version	Command history
1.0.0	This command was introduced.

show lag

Displays the status and configuration details of Link Aggregation Groups (LAGs) in the system.

Syntax

show lag [*id*] [**details**]

Parameters

id

Displays the details of a specific LAG.

details

Displays detailed information of LAG including the mode, load balancing mechanism, and member interface details such as active members and device instance information.

Modes

Network mode

Examples

The following example displays the status of LAGs in the system.

```
Edge-VM-1-867# network
Network# show lag
Name                    tag           Idx     State  MTU  (L3/IP4/IP6/MPLS)     Counter          Count
lag1                    none            7      down         1500/0/0/0
```

The following example displays the LAG details.

```
Edge-VM-1-867# network
Network# show lag details
lag1
  mode: lacp
  load balance: l34
  number of active members: 0
  number of members: 0
  device instance: 0
  interface id: 1
  sw_if_index: 7
  hw_if_index: 7
```

History

Release version	Command history
1.0.0	This command was introduced.

show logs

Displays logs of specific pods.

Syntax

show logs { *prefix* | *pod-name* }

Parameters

prefix

Displays the logs of the pod specified by the initial part of the pod name instead of the full name of the pod, simplifying log retrieval.

pod-name

Displays the logs of the pod specified by the full name of the pod.

Modes

Logging mode

Examples

The following example shows sample output for the **show logs** command.

```
Edge-VM-1-867# logging
(logging)# show logs helm-install-clustermgr-5pdpj
------------------------
Displaying logs for pod: helm-install-clustermgr-5pdpj
------------------------
if [[ ${KUBERNETES_SERVICE_HOST} =~ .*:.* ]]; then
        echo "KUBERNETES_SERVICE_HOST is using IPv6"
        CHART="${CHART//%\{KUBERNETES_API\}%/[${KUBERNETES_SERVICE_HOST}]:${KUBERNETES_SERVICE_PORT}}"
else
        CHART="${CHART//%\{KUBERNETES_API\}%/${KUBERNETES_SERVICE_HOST}:${KUBERNETES_SERVICE_PORT}}"
fi

set +v -x
+ [[ '' != \t\r\u\e ]]
+ export HELM_HOST=127.0.0.1:44134
+ HELM_HOST=127.0.0.1:44134
+ helm_v2 init --skip-refresh --client-only --stable-repo-url https://charts.helm.sh/stable/
+ tiller --listen=127.0.0.1:44134 --storage=secret
Creating /home/klipper-helm/.helm
Creating /home/klipper-helm/.helm/repository
Creating /home/klipper-helm/.helm/repository/cache
Creating /home/klipper-helm/.helm/repository/local
Creating /home/klipper-helm/.helm/plugins
Creating /home/klipper-helm/.helm/starters
Creating /home/klipper-helm/.helm/cache/archive
Creating /home/klipper-helm/.helm/repository/repositories.yaml
Adding stable repo with URL: https://charts.helm.sh/stable/
Adding local repo with URL: http://127.0.0.1:8879/charts
$HELM_HOME has been configured at /home/klipper-helm/.helm.
Not installing Tiller due to 'client-only' flag having been set
++ jq -r '.Releases | length'
++ timeout -s KILL 30 helm_v2 ls --all '^clustermgr$' --output json
[main] 2024/07/25 23:02:33 Starting Tiller v2.17.0 (tls=false)
[main] 2024/07/25 23:02:33 GRPC listening on 127.0.0.1:44134
[main] 2024/07/25 23:02:33 Probes listening on :44135
[main] 2024/07/25 23:02:33 Storage driver is Secret
[main] 2024/07/25 23:02:33 Max history per release is 0
[storage] 2024/07/25 23:02:33 listing all releases with filter
+ V2_CHART_EXISTS=
+ [[ '' == \1 ]]
+ [[ '' == \v\2 ]]
+ [[ -f /config/ca-file.pem ]]
+ [[ -n '' ]]
+ shopt -s nullglob
+ helm_content_decode
+ set -e
+ ENC_CHART_PATH=/chart/clustermgr.tgz.base64
+ CHART_PATH=/tmp/clustermgr.tgz
+ [[ ! -f /chart/clustermgr.tgz.base64 ]]
+ base64 -d /chart/clustermgr.tgz.base64
+ CHART=/tmp/clustermgr.tgz
+ set +e
+ [[ install != \d\e\l\e\t\e ]]
+ helm_repo_init
+ grep -q -e 'https\?://'
+ [[ helm_v3 == \h\e\l\m\_\v\3 ]]
+ [[ /tmp/clustermgr.tgz == stable/* ]]
+ [[ -n '' ]]
+ helm_update install
+ [[ helm_v3 == \h\e\l\m\_\v\3 ]]
++ tr '[:upper:]' '[:lower:]'
++ jq -r '"\(.[0].app_version),\(.[0].status)"'
++ helm_v3 ls --all -f '^clustermgr$' --namespace default --output json
+ LINE=0.1.0,deployed
+ IFS=,
+ read -r INSTALLED_VERSION STATUS _
+ VALUES=
```

```
+ for VALUES_FILE in /config/*.yaml
+ VALUES=' --values /config/values-01_HelmChart.yaml'
+ [[ install = \d\e\l\e\t\e ]]
+ [[ 0.1.0 =~ ^(|null)$ ]]
+ [[ deployed =~ ^(pending-install|pending-upgrade|pending-rollback)$ ]]
+ [[ deployed == \d\e\p\l\o\y\e\d ]]
+ echo 'Already installed clustermgr'
+ [[ helm_v3 == \h\e\l\m\_\v\3 ]]
+ helm_v3 mapkubeapis clustermgr --namespace default
Already installed clustermgr
2024/07/25 23:02:48 Release 'clustermgr' will be checked for deprecated or removed Kubernetes APIs and
will be updated if necessary to supported API versions.
2024/07/25 23:02:48 Get release 'clustermgr' latest version.
2024/07/25 23:02:50 Check release 'clustermgr' for deprecated or removed APIs...
2024/07/25 23:02:50 Finished checking release 'clustermgr' for deprecated or removed APIs.
2024/07/25 23:02:50 Release 'clustermgr' has no deprecated or removed APIs.
2024/07/25 23:02:50 Map of release 'clustermgr' deprecated or removed APIs to supported versions,
completed successfully.
+ echo 'Upgrading helm_v3 chart'
+ echo 'Upgrading clustermgr'
+ shift 1
+ helm_v3 upgrade clustermgr /tmp/clustermgr.tgz --values /config/values-01_HelmChart.yaml
Upgrading clustermgr
Release "clustermgr" has been upgraded. Happy Helming!
NAME: clustermgr
LAST DEPLOYED: Thu Jul 25 23:02:51 2024
NAMESPACE: default
STATUS: deployed
REVISION: 3
+ exit
```

History

Release version	Command history
1.0.0	This command was introduced.

show log level

Displays log level for all class.

Syntax

show log level

Modes

Network mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Network # show log level
info
Available Commands:
  exit           exit
  help           help
  nslookup       nslookup <domain>
  packet-capture
  ping           ping <ipv4-address|domain> [source <interface>] [size <datasize[18-1500]>] [repeat
<count>] [verbose]
  set
  show
  traceroute     traceroute <ipv4-address|domain>

Network # ping
ping <ipv4-address|domain> [source <interface>] [size <datasize[18-1500]>] [repeat <count>] [verbose]
116 bytes from 8.8.8.8: icmp_seq=1 ttl=118 time=1.5913 ms
116 bytes from 8.8.8.8: icmp_seq=2 ttl=118 time=1.7539 ms
116 bytes from 8.8.8.8: icmp_seq=3 ttl=118 time=1.5692 ms
116 bytes from 8.8.8.8: icmp_seq=4 ttl=118 time=1.7417 ms
116 bytes from 8.8.8.8: icmp_seq=5 ttl=118 time=1.5953 ms

Statistics: 5 sent, 5 received, 0% packet loss

Network # traceroute
traceroute <ipv4-address|domain>
traceroute to google.com (142.251.42.238), 30 hops max, 46 byte packets
 1  10.42.0.1 (10.42.0.1)  0.005 ms  0.004 ms  0.004 ms
 2  10.254.1.254 (10.254.1.254)  0.099 ms  0.062 ms  *
 3  10.206.67.254 (10.206.67.254)  8.247 ms  6.343 ms  5.041 ms
 4  10.7.42.30 (10.7.42.30)  0.779 ms  0.802 ms  0.868 ms
 5  210.58.90.1 (210.58.90.1)  3.837 ms  12.844 ms  3.741 ms
 6  203.79.251.137 (203.79.251.137)  2.526 ms  1.191 ms  1.044 ms
 7  211.76.96.66 (211.76.96.66)  1.011 ms  1.069 ms  211.76.96.166 (211.76.96.166)  3.780 ms
 8  203.79.255.98 (203.79.255.98)  2.506 ms  1.417 ms  1.957 ms
 9  108.170.244.33 (108.170.244.33)  1.552 ms  1.553 ms  1.499 ms
10  209.85.142.121 (209.85.142.121)  1.434 ms  209.85.242.125 (209.85.242.125)  2.001 ms
209.85.142.121 (209.85.142.121)  1.631 ms
11  142.251.42.238 (142.251.42.238)  2.958 ms  1.821 ms  1.775 ms

Network # nslookup
nslookup <domain>
[192.168.1.1]
```

History

Release version	Command history
1.0.0	This command was introduced.

show log-level

Displays the currently configured log level for the pods.

Syntax

show log-level [*prefix* | *pod-name*]

Parameters

prefix

Displays the log level of the pod specified by the initial part of the pod name instead of the full name of the pod, simplifying log retrieval.

pod-name

Displays the log level of the pod specified by the full name of the pod.

Modes

Logging mode

Examples

The following example shows sample output for the **show log-level** command.

```
Edge-VM-1-867# logging
(logging)# show log-level
-------------------------------------------------
               Log Level Status
-------------------------------------------------
cfgmgr                            : info
cia                               : info
configdb-master-0                 : notice
dhcp-app-agent                    : info
edgeapp-adapter                   : info
edgeapp-controller-manager        : info
featureflag                       : info
fluent-bit                        : info
fluent-operator                   : info
logmgr                            : info
nats-0                            : info
operdb-master-0                   : notice
pal                               : info
rproxy                            : info
rpv2se                            : info
seinfra-events                    : info
seinfra-tools                     : info
stats-reporter                    : info
vpp-device-plugin                 : info
vpp-infra-cfg-agent               : info
vpp-infra-cli                     : info
vpp-infra-oper-agent              : info
vpp-infra-statsd                  : info
vpp-infra-vpp                     : info
|-(acl_plugin)                    : info
|-(policer)                       : info
|-(qos_profile_logger)            : info
|-(ruc_nsg)                       : info
|-(ruc_peer_tunnel)               :
|-(ruc_qos_cpp)                   : info
|-(ruc_qos_nsg)                   : info
|-(sdlan)                         :
|-(se-vxlan-pmtu-enforce)         : info
|-(se_event_sender)               : info
```

History

Release version	Command history
1.0.0	This command was introduced.

show log-streaming

Displays the current log-streaming status.

Syntax

show log-streaming

Modes

Logging mode

Examples

The following example shows sample output for the **show log-streaming** command.

```
Edge-VM-1-867# logging
(logging)# show log-streaming
------------------------------------------------
               Log Streaming Status
------------------------------------------------
Streaming Enabled               : true
Streaming Duration              : 5
Streaming Enable Config Result  : true
Streaming Start Time            : 2023-06-22 06:21:53.498021341 +0000 UTC m=+416.688875513
Streaming Expiry Time           : 2023-06-22 06:26:53.498021341 +0000 UTC m=+716.688875513
Streaming Timer Status          : Running
Streaming Disable Config Result : false
```

History

Release version	Command history
1.0.0	This command was introduced.

show manager status

Displays information on the network manager application.

Syntax

show manager status

Modes

User privilege mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays information on the network manager.

```
device# show manager status
================================== network ===================================
port1 (LAN/up): 00:0c:29:48:85:71 10.12.13.17/24
port2 (LAN/up): 00:0c:29:48:85:7b 10.12.15.17/24
port3 (WAN/up): 00:0c:29:48:85:85 10.176.154.17/25
lag1 (UNCONFIGURED/DOWN): 02:fe:01:00:00:00
Default Gateway: 10.176.154.1
DNS Server: 8.8.8.8

================================ connect-agent ================================
----- RUCKUS One information -----
Edge is not managed by RUCKUS One
Connection agent state:  SETUP
Status:  RUCKUS Edge cannot get controller list.
Please check your RUCKUS Edge entry setting.
Nats Leaf status: OFFLINE
Server List:
DRS default URL:  registrar.ruckuswireless.com
--------------------------------
```

History

Release version	Command history
1.0.0	This command was introduced.

show peer-tunnel

This command displays the configuration of peer-tunnel and fallback setting. The peer tunnel is used to send guest WLAN traffic between Data Center RUCKUS Edge and DMZ RUCKUS Edge.

Syntax

show peer-tunnel

Command Default

No command default.

Modes

Network mode

Command Output

The **show peer-tunnel** command displays the following information.

Output field	Description
TUNNEL-ID	Identifier of the tunnel.
TUNNEL-UUID	UUID assigned by RUCKUS One for this peer tunnel service.
SERVICE	Displays the type of service.
SERVICE-ID	RUCKUS One assigned service identifier
Local-Addr	IP address of the local Edge device.
Remote-Addr	Remote IP address of the peer Edge device.
Rand-remote-Addr	Randomized remote IP address list of peer Edge device
Initiator	Displays if the Edge device is an Initiator or a Responder: **Yes**, indicates it is an initiator, and **No** indicates it is a responder.
SCHED-TYPE	RUCKUS One configured Fallback schedule type. **Daily**, **Weekly** and **Interval** schedule types chosen for Fallback.
WEEK-DAY	Day of the week to trigger fallback. This is valid only for weekly schedule type.
HRS	Displays fallback time interval in hours.
MINS	Displays fallback time interval in minutes.
Network-Name	Wi-Fi network name.
WLAN-ID	WLAN ID associated with the Wi-Fi network.
VLAN-ID	VLAN ID associated with the Wi-Fi network
Venue	RUCKUS One venue to which the RUCKUS Wi-Fi and Edge devices are on-boarded.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

It displays the configuration details, but the corresponding VxLAN tunnel might not be created. To verify if the tunnel is created, use the `show vxlan tunnel` command.

Examples

The below example displays the peer tunnel information on a Data Center Edge device when the fallback is not configured.

```
DBGvpp# show peer-tunnel
TUNNEL-ID TUNNEL-UUID                            SERVICE  SERVICE-ID Local-Addr       Remote-Addr
Rand-remote-Addr  Initiator
3         81c31118-2204-372a-a4eb-faff8d7c108f   SDLAN    2          172.20.20.33     172.20.20.41
172.20.20.42      Yes
                                                                                     172.20.20.42
172.20.20.41
                                                                                     172.20.20.43
172.20.20.43

DIST-TYPE   SCHED-TYPE WEEK-DAY   HRS  MINS
 No Fallback configured for this peer tunnel

Network-Name                     WLAN-ID  VLAN-ID  Venue
293 R650 SNULU Captive           44       100      SNULU SD-LAN Venue
293 R760 SNULU Captive           45       100      SNULU SD-LAN Venue
```

The below example displays the peer tunnel information on a Data Center Edge device when the fall back is configured.

```
Network# show peer-tunnel
TUNNEL-ID TUNNEL-UUID                            SERVICE  SERVICE-ID Local-Addr       Remote-Addr
Rand-remote-Addr  Initiator
3         81c31118-2204-372a-a4eb-faff8d7c108f   SDLAN    2          172.20.20.33     172.20.20.41
172.20.20.42      Yes
                                                                                     172.20.20.42
172.20.20.41
                                                                                     172.20.20.43
172.20.20.43

DIST-TYPE   SCHED-TYPE WEEK-DAY   HRS  MINS
Random      Week-Day   Wednesday  12   0

Network-Name                     WLAN-ID  VLAN-ID  Venue
293 R650 SNULU Captive           44       100      SNULU SD-LAN Venue
293 R760 SNULU Captive           45       100      SNULU SD-LAN Venue
```

The below example displays the peer tunnel information on a DMZ Edge device when the fallback is not configured.

```
Network# show peer-tunnel
TUNNEL-ID TUNNEL-UUID                            SERVICE  SERVICE-ID Local-Addr       Remote-Addr
Initiator
1         81c31118-2204-372a-a4eb-faff8d7c108f   SDLAN    3          172.20.20.41     172.20.20.32     No
                                                                                     172.20.20.31
                                                                                     172.20.20.34
                                                                                     172.20.20.33

DIST-TYPE   SCHED-TYPE WEEK-DAY   HRS  MINS
 No Fallback configured for this peer tunnel

Network-Name                     WLAN-ID  VLAN-ID  Venue
293 R650 SNULU Captive           44       100      SNULU SD-LAN Venue
293 R760 SNULU Captive           45       100      SNULU SD-LAN Venue
```

History

Release version	Command history
2.2.0	Supporting fallback feature.

Release version	Command history
2.1.0	Supporting multi-venue feature.
1.0.0	This command was introduced.

show peer-tunnel-ka

This command displays the status of the peer-tunnel keepalive.

Syntax

show peer-tunnel-ka

Command Default

No command default.

Modes

Network mode

Command Output

The **show peer-tunnel-ka** command displays the following information.

Output field	Description
TUNNEL-ID	Displays the tunnel ID.
SERVICE	Displays the service name.
SERVICE-ID	Displays the serice ID.
Initiator	Displays if the Edge device is an initiator or a responder. **Yes** indicates an initiator and **No** indicates a responder.
KA-TUN-STATUS	Displays if the status of the keep alive tunnel **Up** or **Down**.
UP-TIME	Dislays the time since the tunnel is up. The value of this is current time - start time of the tunnel creation.
KA-TUN-STATE	Displays th state of tunnel out. Foe example, **INIT**, **CONNECTING**, **CONNECTED** and **VRRP_BACKUP_WAIT**.
Local-Addr	Displays the local IP address of the Edge device.
Remote-Addr	Displays the peer IP address of the peer tunnel keepalive.
Remote-Index	Peer Index in randomized remote address array list to which the local Edge node connects.
FB-TIME-LEFT	Displays scheduled time remaining for the next fallback.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays the **SD-LAN** tunnel keepalive information on Data Center Edge.

```
=============When tunnel status is up=====================
Network# show peer-tunnel-ka
TUNNEL-ID SERVICE  SERVICE-ID Initiator KA-TUN-STATUS UP-TIME
3         SDLAN    2          Yes       Up            0Y0M0D 0h2m26s

KA-TUN-STATE      Local-Addr          Remote-Addr         Remote-Index  FB-TIME-LEFT
CONNECTED         172.20.20.33        172.20.20.42        0             0Day 23Hrs 6Mins 23Secs

=============When tunnel status is down===================
Network# show peer-tunnel-ka
TUNNEL-ID SERVICE  SERVICE-ID Initiator KA-TUN-STATUS UP-TIME
1         SDLAN    2          Yes       Down          -

KA-TUN-STATE      Local-Addr          Remote-Addr         Remote-Index  FB-TIME-LEFT
CONNECTING        172.20.20.33        172.20.20.42        0               0Day 23Hrs 6Mins 23Secs
```

The below example displays the **SD-LAN** tunnel keepalive information on DMZ Edge.

```
=============When tunnel status is up=====================
Network# show peer-tunnel-ka
TUNNEL-ID SERVICE  SERVICE-ID Initiator KA-TUN-STATUS UP-TIME
1         SDLAN    3          No        Up            0Y0M0D 0h6m48s

Local-Addr           Remote-Addr
172.20.20.42         172.20.20.33

=============When tunnel status is down===================
Network# show peer-tunnel-ka
TUNNEL-ID SERVICE  SERVICE-ID Initiator KA-TUN-STATUS UP-TIME
1         SDLAN    3          No        Down          -
```

History

Release version	Command history
2.2.0	Supporting fallback feature.
2.1.0	This command was introduced.

show pods

Displays the list of running pods.

Syntax

show pods

Modes

Logging mode

Examples

The following example shows sample output for the **show pods** command.

```
Edge-VM-1-867# logging
(logging)# show pods
------------------------------------------------------------------
                        List of Pods
------------------------------------------------------------------
                                                 Name (Namespace)|    Status|
                                                 ----------------|    ------|
                            helm-install-operdb-bd4df (default) | Succeeded|
                         helm-install-rks-traefik-lgrf5 (default) | Succeeded|
                            helm-install-rpv2se-786zw (default) | Succeeded|
                          helm-install-sharedb-cswld (default) | Succeeded|
                        helm-install-configdb-5wqg4 (default) | Succeeded|
                                     upgrade-1-lv52x (default) | Succeeded|
                                     upgrade-2-9ftdg (default) | Succeeded|
 node-debugger-964aca206e07f411ef84a0000c29488571-8dtj8 (default) |    Failed|
                                     upgrade-3-dp2tn (default) | Succeeded|
                                     upgrade-4-5wlxm (default) | Succeeded|
                         helm-install-featureflag-6s5kn (default) | Succeeded|
                    helm-install-edgeapp-adapter-5zd5q (default) | Succeeded|
                helm-install-edgeapp-controller-h85g2 (default) | Succeeded|
                               helm-install-dnb-qzwlw (default) | Succeeded|
                             helm-install-nats-mrdtd (default) | Succeeded|
                            helm-install-logmgr-6dm87 (default) | Succeeded|
                       helm-install-fluent-operator-dsksw (default) | Succeeded|
                            helm-install-trust-cert-v46p6 (default) | Succeeded|
                        helm-install-stats-reporter-rjmt8 (default) | Succeeded|
                        helm-install-seinfra-events-cz87j (default) | Succeeded|
                         helm-install-seinfra-tools-49gkj (default) | Succeeded|
                                helm-install-rproxy-8j9ww (default) | Succeeded|
                                seinfra-tools-f3nqo-5r8bn (default) | Succeeded|
 node-debugger-964aca206e07f411ef84a0000c29488571-c8nf6 (default) | Succeeded|
                                     upgrade-5-g56bb (default) | Succeeded|
 node-debugger-964aca206e07f411ef84a0000c29488571-98d2x (default) |    Failed|
                         edgeapp-adapter-7cd648898c-65vfl (default) |   Running|
                          stats-reporter-57b9f4d476-dmnfd (default) |   Running|
                          seinfra-events-56ff7b7457-gr47q (default) |   Running|
                                       configdb-master-0 (default) |   Running|
                                            rpv2se-vj57k (default) |   Running|
                                   dnb-dnb-9d6d78d74-w4xpn (default) |   Running|
                                         fluent-bit-b2zb2 (default) |   Running|
                         fluent-operator-5f59b978b5-46xqb (default) |   Running|
                              featureflag-54d897cbb-n6ngt (default) |   Running|
            edgeapp-controller-manager-55b88f4cb6-fh7w9 (default) |   Running|
                                   logmgr-8698767684-f4dq2 (default) |   Running|
                                       operdb-master-0 (default) |   Running|
                           rks-traefik-7788594f97-cjf55 (default) |   Running|
                            clustermgr-66bcc5b557-zq8cb (default) |   Running|
                                cfgmgr-749994c8f5-t5hl4 (default) |   Running|
                                   cia-67f8dd44f7-6678j (default) |   Running|
                               helm-install-cfgmgr-4t2rp (default) | Succeeded|
                                  helm-install-pal-5txjv (default) | Succeeded|
                            helm-install-clustermgr-5pdpj (default) | Succeeded|
                                  helm-install-cia-7xv48 (default) | Succeeded|
                     helm-install-resource-manager-v9ldc (default) | Succeeded|
                                             pal-nrs84 (default) |   Running|
                        resource-manager-8497f9ff7d-lp4p9 (default) |   Running|
                             helm-install-vpp-infra-7zsgj (default) | Succeeded|
                    vpp-infra-oper-agent-65bdd8467d-qh829 (default) |   Running|
                     vpp-infra-cfg-agent-588fccd848-97w4n (default) |   Running|
                           vpp-infra-cli-77665fbb5f-xznlb (default) |   Running|
                        vpp-infra-statsd-74cc5fcc98-8lhmq (default) |   Running|
                                           nats-0 (default) |   Running|
                                 rproxy-786dc46444-jrdkx (default) |   Running|
                                    vpp-infra-vpp-hkxjq (default) |   Running|
 node-debugger-964aca206e07f411ef84a0000c29488571-hprcb (default) |   Running|
```

History

Release version	Command history
1.0.0	This command was introduced.

show pin-info

Displays PIN information of the RUCKUS Edge device.

Syntax

show pin-info

Command Default

No command default.

Modes

Network configuration mode

Command Output

The **show pin-info** command displays the following information.

Output field	Description
PIN UUID	Service ID of Personal Identity Networks (PIN) .
DHCP Service	Name of DHCP service used by PIN service.
DHCP Pool	Name of DHCP pool used by PIN service .
DHCP Address Range	DHCP pool IP address range.
Max PAN Number	Maximum PAN number configured by the user.
Max UE per PAN	Maximum UE number per PAN configured by the user.

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

```
vpp# show pin-info
PIN 1 info:
  PIN UUID:           8107bb1b-04f1-4ff1-8ad6-ef29e152478d
  DHCP Service:       DHCP-PIN-1
  DHCP Pool:          dhcp-pool-2
  DHCP Address Range: 150.1.1.8 - 150.1.1.247
  Max PAN Number:     30
  Max UE per PAN:     5
```

History

Release version	Command history
2.2.0	This command is introduced as Early Access.

show pin-pan

Displays security policies in Personal Area Network (PAN).

Syntax

show pin-pan

Command Default

No command default.

Modes

Network mode

Command Output

The **show pin-pan** command displays the following information.

Output field	Description
PAN-VNI	Personal Area Networks (PAN) VXLAN Network Identifier.
PAN-ID	PAN ID.
BD-ID	Bridge domain ID of PAN.
BVI-Intf	BVI interface name of PAN.
BVI-Intf-Addr	BVI interface IP address.
PAN-PERSONA-ID	PAN persona ID.

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

```
DBGvpp# show pin-pan
 PAN-VNI   PAN-ID    BD-ID    BVI-Intf        BVI-Intf-Addr             PAN-PERSONA-ID
  9232       2       4097     loop4097        150.1.1.17/29      38f5a430-4773-4f1a-be48-acfc8467
  9235       5       4100     loop4100        150.1.1.41/29      ec3500ef-a67a-4794-80f2-5a727983
  9227      11       4106     loop4106        150.1.1.89/29      8ddff19a-005f-470f-a1fc-7724bd84
  9229      13       4108     loop4108       150.1.1.105/29      dea7b49a-1eda-44b9-8125-1f97b67c
  9230      14       4109     loop4109       150.1.1.113/29      9f740757-5392-4b9b-8548-54f4c1ae
  9233       3       4098     loop4098        150.1.1.25/29      bd216c40-7326-4bc7-bd91-a094c9e9
  9234       4       4099     loop4099        150.1.1.33/29      285acdd8-0449-4290-8e3a-1ee1ea67
  9217       1       4096     loop4096        150.1.1.9/29       cd3f3cac-a16b-46d9-a38c-e61daab3
  9228      12       4107     loop4107        150.1.1.97/29      14efa190-04d4-4d64-bc04-f76b9e0f
  9231      15       4110     loop4110       150.1.1.121/29      f56ba269-2988-4820-98ed-6f1bc49b
```

History

Release version	Command history
2.2.0	This command is introduced as Early Access.

show resource manager

Displays the current resource allocation.

Syntax

show resource manager

Modes

Network mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays the resource allocation in the RUCKUS Edge device.

```
network# show resource-manager
Resource Info:
====================
Node Resources:
  Node Allocatable CPU: 2000m
  Node Unallocated CPU: 0m

Configured Resources:
  System CPU resource: 750m
  Data-Plane CPU resource: 1250m

Applied Resources:
  Application Name: System
    Utilized CPU: 750m
    Attached with CPU ID: 0
  Application Name: Data-Plane
    Utilized CPU: 1250m
      Control plane CPU resource: 250m
      Data plane CPU resource: 1000m
    Attached with CPU IDs: 1,11

(CPU resource type is in unit m: millicore)
```

History

Release version	Command history
1.0.0	This command was introduced.

show route

Displays the vector packet processor (VPP) routing information.

Syntax

show route

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The below example displays the VPP routing information.

```
network# show route
0.0.0.0/0 via 10.176.153.129, metric=1
10.254.1.0/24 via 10.254.1.254, metric=1
10.176.153.0/24 via 10.176.153.217, metric=1
10.254.2.240/30 via 10.254.2.241, metric=1
10.254.2.244/30 via 10.254.2.245, metric=1
10.176.153.129/32 via 10.176.153.129, metric=1
10.176.153.130/32 via 10.176.153.130, metric=1
10.254.2.242/32 via 10.254.2.242, metric=1
10.254.1.1/32 via 10.254.1.1, metric=1
10.254.2.246/32 via 10.254.2.246, metric=1
```

History

Release version	Command history
1.0.0	This command was introduced.

show sdlan config

Displays SD-LAN configuration details.

Syntax

show sdlan config

Command Default

No command default.

Modes

Network mode

Command Output

The **show sdlan config** command displays the following information.

Output field	Description
core-port	
mac-age	Inactivity period (in seconds) for the MAC entries.
sw-if-idx	Software if-index for the core-port
Total SDLAN services	Number of SDLAN services configured
Total Remote SDLAN services	Total number of remote SDLAN services. An SDLAN service configured on cluster A to do guest VLAN tunneling to cluster B, will be treated as remote SDLAN service by the cluster B.
Name	SDLAN service name configured by admin.
ID	Internal Index generated by Edge for this SDLAN service.
UUID	UUID assigned by R1 for this SDLAN service.
Local	Whether the SDLAN service is local or remote.
Total WLANs	Total number of WLANs on which this SDLAN service is enabled.
Network-Name	Wireless Network Name for this WLAN.
WLAN-ID	WLAN ID assigned by R1 for this wireless network association with a given venue.
SSID-VLAN	SSID VLAN for this WLAN.
VENUE	Venue on which this WLAN is activated.

Usage Guidelines

This command is supported only on the Edge device. The **Network Summary** section provides information about the uplink connection type for each network. It indicates whether the network traffic is bridged over the uplink port into the core network or tunneled to another Edge device.

Examples

The below example displays the SD-LAN service configuration information when executed on a Data Center Edge device.

```
Network# show sdlan config
core-port: port1                              sw-if-idx: 1
mac-age:   5 mins

Total SDLAN services: 1
Total Remote SDLAN services: 0

Name: dc-sdlan
   ID: 2
   UUID: SL0a669f6e6a894def96c75dac12
   Local: Yes
   Total WLANs: 6

   Network-Name                       WLAN-ID      SSID-VLAN     VENUE
   student-1                          1            100           Bldg#1
   student-2                          2            110           Bldg#2
   faculty-1                          3            200           Bldg#1
   faculty-2                          4            210           Bldg#2
   guest-1                            5            120           Bldg#1
   guest-2                            6            220           Bldg#2


Networks Summary:

   Network-Name                       Venue        Uplink-Conn-Types
   student-1                          Bldg#1       bridge-to-core-network
   student-2                          Bldg#2       bridge-to-core-network
   student-3                          Bldg#1       bridge-to-core-network
   faculty-3                          Bldg#2       bridge-to-core-network
   guest-1                            Bldg#1       tunnel-to-peer(10.22.1.13)
   guest-2                            Bldg#2       tunnel-to-peer(10.22.1.13)
```

The below example displays the SD-LAN service configuration information on DMZ Edge device.

```
Network# show sdlan config
core-port: port1                              sw-if-idx: 1
mac-age:   5 mins

Total SDLAN services: 1
Total Remote SDLAN services: 1

Name: dc-sdlan
   ID: 2
   UUID: SL0a669f6e6a894def96c75dac12
   Local: No
```

History

Release version	Command history
2.1.0	Supporting multi-venue feature.
1.0.0	This command was introduced.

show sdlan counters

Displays the SD-LAN related counters information. Use it check SDLAN related failures.

Syntax

show sdlan counters

Command Default

No command default.

Modes

Network mode

Command Output

The **show sdlan counters** command displays the following information.

Output field	
BD create success/failures	Number of times SD-LAN bridge-domain creation was successful/failure.
BD delete success/failures	Number of times SD-LAN bridge-domain deletion was successful/failure.
Sub-port create success/failures	Number of times SLDAN 802.1q sub-port creation was successful/failure.
Sub-port delete success/failures	Number of times SLDAN 802.1q sub-port deletion was successful/failure.
Sub-port add to bd success/failures	Number of times SLDAN 802.1q sub-port addition to bridge-domain was successful/failure.
Sub-port remove from bd success/failures	Number of times SLDAN 802.1q sub-port deletion from bridge-domain was successful/failure.
Set tag-rewrite failures	Number of times there were failures in setting 802.1q tag rewrite on SLDAN 802.1q sub-port.
Set admin up failures	Number of times there were failures in setting admin-up on the SLDAN 802.1q sub-port.
Tunnel create success/failures	Number of times tunnels creation was successful/failure.
Tunnel delete success/failures	Number of times tunnel deletion was successful/failures.
Tunnel add to bd success/failures	Number of times tunnel addition to bridge-domain was successful/failure.
Tunnel remove from bd success/failures	Number of times tunnel deletion from bridge-domain was successful/failure.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays the **SD-LAN**-releated counters on Data Center to Edge.

```
Network# show sdlan counters

BD create success:               6          BD create failures:              0
BD delete success:               0          BD delete failures:              0

Sub-port create success          4          Sub-port create failures         0
Sub-port delete success          0          Sub-port delete failures         0

Sub-port add to bd success       4          Sub-port add to bd failures      0
Sub-port remove from bd success  0          Sub-port remove from bd failures 0
Set tag-rewrite failures         0          Set admin up failures            0

Tunnel create success            8          Tunnel create failures           0
Tunnel delete success            0          Tunnel delete failures           0

Tunnel add to bd success         10         Tunnel add to bd failures        0
Tunnel remove from bd success    0          Tunnel remove from bd failures   0
```

Examples

The below example displays the **SD-LAN**-releated counters on DMZ to Edge.

```
Network# show sdlan counters

BD create success:               5          BD create failures:              0
BD delete success:               3          BD delete failures:              0

Sub-port create success          5          Sub-port create failures         0
Sub-port delete success          3          Sub-port delete failures         0

Sub-port add to bd success       5          Sub-port add to bd failures      0
Sub-port remove from bd success  3          Sub-port remove from bd failures 0
Set tag-rewrite failures         0          Set admin up failures            0

Tunnel create success            5          Tunnel create failures           0
Tunnel delete success            3          Tunnel delete failures           0

Tunnel add to bd success         5          Tunnel add to bd failures        0
Tunnel remove from bd success    3          Tunnel remove from bd failures   0
Network#
```

History

Release version	Command history
2.1.0	Supporting multi-venue feature.
1.0.0	This command was introduced.

show sdlan info

Displays the current VLANs which are serviced by the SDLAN.

Syntax

show sdlan info

Command Default

No command default.

Modes

Network mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Command Output

The **show sdlan info** command displays the following information.

Output field	Description
Total VLANs	Total number of VLANs currently bridged by SD-LAN.
VLAN	VLAN identifier.
Type	Whether the VLAN is created dynamically (due to reception of traffic).
BD_ID	Identifier of the bridge-domain for this VLAN.
Uplink-Port	Uplink port. If the VLAN traffic has to be bridged on core-port, uplink port will be a 802.1q sub-port on the core-port. If the VLAN traffic has to be tunneled to another Edge cluster, uplink port will be a tunnel port.
AP-Tunnels	Number of AP tunnels for this VLAN. This indicate number of APs which have UEs assigned this VLAN and thus tunneling VLAN traffic to Edge.
Peer-Tunnels	Number of tunnels to other RUCKUS Edge device for this VLAN.
Access-Clients	Number of MACs that are learned on non-uplink ports for this VLAN.
Uplink-Clients	Number of MACs that are learned on uplink ports for this VLAN.

Examples

The below example displays the **SD-LAN** operation information from Data Center to RUCKUS Edge

```
Network# show sdlan info

Total VLANs: 5
VLAN    Type       BD-ID  Uplink-Port           AP-Tunnels  Peer-Tunnels  Access-Clients  Uplink-Clients
100     dynamic    100    port1.100             1           0             1               1
110     dynamic    110    port1.110             1           0             1               0
120     dynamic    120    vxlan_gpe_tunnel3     2           1             1               1
200     dynamic    200    port1.200             2           0             1               1
220     dynamic    220    vxlan_gpe_tunnel8     1           1             1               1
```

The below example displays the **SD-LAN** operation information from DMZ to RUCKUS Edge.

```
Network# show sdlan info

Total VLANs: 2
VLAN    Type       BD-ID  Uplink-Port           AP-Tunnels  Peer-Tunnels  Access-Clients  Uplink-Clients
120     dynamic    120    port1.120             0           1             1               1
220     dynamic    220    port1.220             0           1             1               1
```

History

Release version	Command history
2.1.0	Supporting multi-venue feature.
1.0.0	This command was introduced.

show sdlan mac

Displays the sdlan mac details.

Syntax

show sdlan mac <addr> | [vlan<num>]

Parameters

addr

Enter the MAC address.

vlan <num>

Enter the vlan number.

Modes

Network mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays the **SD-LAN** mac details.

```
Network# show sdlan mac  6e:b5:7c:0e:d8:d0
    Mac-Address      Vlan          Interface-Name         Tunnel-Info
 6e:b5:7c:0e:d8:d0    100           vxlan_tunnel3         src 10.23.1.14 dst 10.23.1.11 src_port 4789
dst_port 4789 vni 100
```

History

Release version	Command history
1.0.0	This command was introduced.

show sdlan peer

Displays the sdlan information for an AP or peer Edge.

Syntax

show sdlan peer *<peer-ip>* [**vlan** *<num>*] [**summary**]

Command Default

No command default.

Parameters

peer *<peer-ip>*

Specifies the IP address of the peer device.

vlan*<num>*

Specifies VLANs tunneled.

summary

Specifies VLAN/Tunnel information.

Modes

Network mode

Command Output

The **show sdlan peer** *<peer-ip>* [**vlan** *<num>*] [**summary**] command displays the following information.

Output field	
VLAN	Identifier of the vlan for which the given peer (AP or another Edge) is tunneling traffic.
Clients	Number of MACs learned on this tunnel.
Interface-Name	Name of the tunnel interface.
Tunnel-Info	Information about the tunnel.
Counter	Packet/byte counter type.
Count	Value of this counter.
Mac-Address	MAC address of the client reachable via the tunnel to the given peer.
Vlan	VLAN assigned to the client.
Age (min)	Inactivity/age of this client's MAC.
Interface-Name	Interface name of the tunnel port on which this client MAC is learned.
Total Tunnels	Total number of vlan tunnels currently active for the given peer.
Total Clients	Total number of clients whose traffic is currently tunneled by the given peer.
Totlal rx packets	Total number of rx packets and rx bytes on all the currently active tunnels from the given peer.
Totlal tx packets	Total number of tx packets and tx bytes on all the currently active tunnels from the given peer.

Examples

```
Network# show sdlan peer 10.23.1.11

Displaying all tunnels from peer 10.23.1.11
 Vlan  Clients    Interface-Name               Tunnel-Info           Counter           Count
  200     1       vxlan_gpe_tunnel11      src 10.23.1.14 vni 200   rx packets                4
                                                                   rx bytes                252
                                                                   tx packets                5
                                                                   tx bytes                566
  210     2        vxlan_gpe_tunnel4      src 10.23.1.14 vni 210   rx packets               12
                                                                   rx bytes                532
  120     1        vxlan_gpe_tunnel1      src 10.23.1.14 vni 120   rx packets              125
                                                                   rx bytes               8386
                                                                   tx packets               61
                                                                   tx bytes               7946
  110     1        vxlan_gpe_tunnel7      src 10.23.1.14 vni 110   rx packets                4
                                                                   rx bytes                196
  100     1       vxlan_gpe_tunnel12      src 10.23.1.14 vni 100   rx packets               16
                                                                   rx bytes                840
                                                                   tx packets                6
                                                                   tx bytes                672
   1      0        vxlan_gpe_tunnel6       src 10.23.1.14 vni 1
  220     1        vxlan_gpe_tunnel2      src 10.23.1.14 vni 220   rx packets              101
                                                                   rx bytes               9394
                                                                   tx packets              100
                                                                   tx bytes              13096

Displaying all clients MACs on peer 10.23.1.11
    Mac-Address      Vlan   Age(min)         Interface-Name
 6e:b5:7c:0e:d8:d0    100      2             vxlan_gpe_tunnel12
 82:92:d7:93:1a:ef    220      0             vxlan_gpe_tunnel2
 3e:e1:82:c1:e6:56    200      1             vxlan_gpe_tunnel11
 46:30:e0:60:8f:81    120      1             vxlan_gpe_tunnel1
 c2:58:f9:3c:8a:b2    210      1             vxlan_gpe_tunnel4
 9e:43:9a:b6:ea:52    210      1             vxlan_gpe_tunnel4
 6e:9c:a1:b4:db:a8    110      2             vxlan_gpe_tunnel7

Summary:
         Total Tunnels: 7, Total Clients: 7
         Total rx packets: 262, Total rx bytes: 19600
         Total tx packets: 172, Total tx bytes: 22280

Network# show sdlan peer 10.23.1.11 summary

Summary:
         Total Tunnels: 7, Total Clients: 7
         Total rx packets: 265, Total rx bytes: 19894
         Total tx packets: 175, Total tx bytes: 22682

Network# show sdlan peer 10.23.1.11 vlan 210

Displaying VLAN 210 tunnels from peer 10.23.1.11
 Vlan  Clients    Interface-Name           Tunnel-Info           Counter           Count
  210     2       vxlan_gpe_tunnel4  src 10.23.1.14 vni 210   rx packets               12
                                                              rx bytes                532

Displaying VLAN 210 clients MACs on peer 10.23.1.11
    Mac-Address      Vlan   Age(min)         Interface-Name
 c2:58:f9:3c:8a:b2    210      2             vxlan_gpe_tunnel4
 9e:43:9a:b6:ea:52    210      2             vxlan_gpe_tunnel4

Summary:
         Total Tunnels: 1, Total Clients: 2
         Total rx packets: 12, Total rx bytes: 532
```

History

Release version	Command history
2.1.0	Supporting multi-venue feature.
1.0.0	This command was introduced.

show sdlan summary

Displays the brief information of the SD-LAN.

Syntax

show sdlan summary

Command Default

No command default.

Modes

Network mode

Command Output

The **show sdlan summary** command displays the following information.

Output field	
Total VLANs	Total number of active VLANs.
Total Access Clients	Total number of clients on all APs whose traffic is tunneled to Edge.
Total Uplink Clients	Total number of clients whose MACs are learnt on the uplink ports.
Total AP-Tunnels	Total number of tunnels from all APs.
Total Peer-Tunnels	Total number of peer tunnels.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays the **SD-LAN** operation information of Edge in Data Center.

```
Network# show sdlan summary

Total VLANs: 7
Total Access Clients: 1
Total Uplink Clients: 2
Total AP-Tunnels: 11
Total Peer-Tunnels: 2
```

The below example displays the **SD-LAN** operation information on DMZ Edge.

```
Network# show sdlan summary

Total VLANs: 1
Total Access Clients: 0
Total Uplink Clients: 0
Total AP-Tunnels: 0
Total Peer-Tunnels: 1
```

History

Release version	Command history
2.1.0	Supporting multi-venue feature.
1.0.0	This command was introduced.

show serial

Displays the serial number of your RUCKUS Edge device.

Syntax

show series

Modes

User Privileged Mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The the follwing example shows how to display the serial number of your RUCKUS Edge device.

```
Device# show serial
Device Serial: 964ACA206E07F411EF84A0000C29488571
```

History

Release version	Command history
1.0.0	This command was introduced.

show status

Displays the current status of the configuration.

Syntax

show status

Modes

Config Manager mode

Examples

The following example shows sample output for the **show status** command.

```
Edge-VM-1-867# cfgmgr
(cfgmgr)# show status
 Config Manager State: WAIT
 The Latest Config Result: Success
 TimeStamp: Fr-Apr-21-2023-08:22:57
 Request Id: 4b6ac493-9816-4815-89700-8f8bf8833da6
 GPB Name: EdgeNetworkingConfig
 GPB Result: Success
```

History

Release version	Command history
1.0.0	This command was introduced.

show status

Displays the current onboarding status of the RUCKUS Edge device.

Syntax

show status

Command Default

Modes

Connect Agent mode

Command Output

The **show status** command displays the following information.

Output field	Description
Connection agent state	Connection agent state.
Status	Status: • Success • The Edge device cannot get controller list. Please check your RUCKUS Edge entry setting. The Edge device gets empty response from VPP status. Please check the network connectivity between controller and device. • The Edge device gets cert and key failed. Please check your OTP enroll-device setting. • The Edge device cannot reach to controller. Please check the network connectivity between controller and device. • The Edge device has been approved • The Edge device gets in pending state. Please check controller setting. • The Edge device gets in REJECT state from controller. Please check controller setting. • The Edge device gets into re-discovery to renew JWT. Current JWT is invalid.
Nats Leaf status	Indicates if RUCKUS Edge connects to RUCKUS One as a NATS leaf and is ready to send or receive notification to RUCKUS One. [ONLINE | OFFLINE]
Server List	Server List
DRS default URL	Server URL for device registration.

Usage Guidelines

The following example shows sample output for the show status command.

Examples

```
(connect-agent)# show status
----- RUCKUS One information -----
Edge is not managed by RUCKUS One
Connection agent state:  SETUP
Status:  RUCKUS Edge cannot get controller list.
Please check your RUCKUS Edge entry setting.
Nats Leaf status: OFFLINE
Server List:
DRS default URL:  registrar.ruckuswireless.com
---------------------------------
```

History

Release version	Command history
1.0.0	This command was introduced.

show tunnel profile

Displays the tunnel profile information.

Syntax

show tunnel profile

Modes

Network configuration mode

Command Output

The **show tunnel profile** command displays the following information.

Output field	Description
User	User that created the tunnel profile.
INST	The instance ID of the tunnel profile.
ID	The ID of the tunnel profile.
UUID	The unique identifier (UUID) of the tunnel profile.
Name	The name of the tunnel profile.
FF	Indicates whether Forced Fragmentation (FF) is enabled for the tunnel profile (Y/N).
MO	Indicates whether Manual Override (MO) is enabled for the tunnel profile (Y/N)
M-PMTU	The maximum packet size (MTU) allowed on the tunnel interface.
AGE-TIME	The age of the tunnel profile in seconds.
KA-INTERVAL	The keep-alive interval in seconds.
KA-RETRY	The number of keep-alive retries before declaring the tunnel down.

The following example shows sample output for the **show tunnel profile** command.

Examples

```
network# show tunnel profile
   USER        INST   ID            UUID                        NAME                FF?  MO?  M-PMTU
AGE-TIME KA-INTERVAL  KA-RETRY
   SD-LAN    (2)      2    20 SLb18ee155f4144271a3290e9503 Default tunnel profile   N    N      0
1200        2          5
PEER-TUNNEL  (3)     12    19 bb08e651cf864ea0bc522b84683f       DMZ tunnel         N    Y    1400
1200        2          5
2 vxlan tunnel profile(s)
```

History

Release version	Command history
1.0.0	This command was introduced.

show version

Displays the vector packet processing (VPP) version.

Syntax

show version

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example shows how to display the VPP.

```
Network# show version
vpp v22.06.0-1090~g4777236bc built by root on buildkitsandbox at 2024-07-24T08:05:57
```

History

Release version	Command history
1.0.0	This command was introduced.

show vxlan config

Displays Virtual Extensible LAN (VxLAN) configuration details.

Syntax

show vxlan config

Modes

Network mode

The **show vxlan config** command displays the following information.

Output field	Description
Dynamic Tunnel	Displays whether the dynamic tunnel feature for VXLAN tunnels is enabled or disabled.
Aging Time	Displays the inactivity (or age) for the dynamic VXLAN tunnels.

Usage Guidelines

The following example shows sample output for the **show vxlan config** command.

Examples

```
Network # show vxlan config
DynamicTunnel:disabled DynTun-app-ref-cnt:0
AgingTime:1200
```

History

Release version	Command history
1.0.0	This command was introduced.

show vxlan dstats

Displays dynamic status for Virtual Extensible LAN (VxLAN) on the RUCKUS Edge device.

Syntax

show vxlan dstats

Modes

Network mode

Usage Guidelines

Command Output

Output field	Description
TunAddFail	Number of dynamic tunnel addition failures.
TunDelFail	Number of dynamic tunnel deletion failures.
IntfAddFail	Number of failures for the tunnel add actions performed by the service/user module.
IntfRemoveFail	Number of failures for the tunnel delete actions performed by the service/user module.
TunAddSuccess	Number of dynamic tunnel addition success.
TunDelSuccess	Number of dynamic tunnel deletion success.
IntfAddSuccess	Number of success for the tunnel add actions performed by the service/user module.
IntfRemoveSuccess	Number of success for the tunnel delete actions performed by the service/user module.
TunDecapPktsClamped	Number of payload TCP SYN/SYN-AC packets whose MSS got adjusted as per the tunnel pmtu value.
DynamicTunnelRequests	Number of requests sent to the main thread for creating dynamic VXLAN tunnels.
DecapHashTblAddFailures	Number of failures while trying to add the tunnel decap entry to the hash table.
DynamicTunnelCount	Total number of dynamic vxlan tunnels that are currently active.

The **show vxlan-gpe dstats** command displays the following information.

Examples

```
Network # show vxlan dstats
 TunAddFail:0
 TunDelFail:0
 IntfAddFail:0
 IntfRemoveFail:0
 TunAddSuccess:0
 TunDelSuccess:0
 IntfAddSuccess:0
 IntfRemoveSuccess:0
 TunDecapPktsClamped:0

 DynamicTunnelRequests:0
 DecapHashTblAddFailures:0
 DynamicTunnelCount:0
```

History

Release version	Command history
1.0.0	This command was introduced.

show vxlan pmtu table

Displays the Maximum Transmission Unit (MTU) updates for the VxLAN received from APs for the RUCKUS Edge device.

Syntax

show vxlan pmtu table

Modes

Network mode

Usage Guidelines

Output field	Description
IP Address	IP address of the AP.
PMTU	Path MTU of the tunnel to this AP. This PMTU is reported by AP
Time Stamp	Time stamp when this AP last reported a change in PMTU.
Count	Number of times, this AP reported a change in the tunnel PMTU value.

The following example shows sample output for the **show vxlan pmtu table** command.

Examples

```
network# show vxlan pmtu table
     IP-Address         PMTU              Time-Stamp            Count
     53.0.0.66          1450         08/12/2023 06:58:10 AM        1
1 vxlan pmtu entries
```

History

Release version	Command history
1.0.0	This command was introduced.

show vxlan tunnel

Displays the VxLAN tunnel information.

Syntax

show vxlan tunnel

Modes

Network mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The following example displays the VxLAN tunnel information for a RUCKUS Edge in Data Center.

```
Network# show vxlan tunnel
[0] instance 0 src 10.23.1.14 dst 10.23.1.11 src_port 4789 dst_port 4789 vni 100 fib-idx 0 sw-if-idx 7
pmtu 1450 user 1 flags 0 encap-dpo-idx 20
[1] instance 1 src 10.23.1.14 dst 10.23.1.12 src_port 4789 dst_port 4789 vni 200 fib-idx 0 sw-if-idx 9
pmtu 1450 user 1 flags 0 encap-dpo-idx 19
[2] instance 2 src 10.23.1.14 dst 10.23.1.11 src_port 4789 dst_port 4789 vni 1 fib-idx 0 sw-if-idx 11
pmtu 1450 user 1 flags 0 encap-dpo-idx 20
[3] instance 3 src 10.23.1.14 dst 10.22.1.13 src_port 4789 dst_port 4789 vni 120 fib-idx 0 sw-if-idx 12
pmtu 1450 user 1 flags 0 encap-dpo-idx 18
[4] instance 4 src 10.23.1.14 dst 10.23.1.11 src_port 4789 dst_port 4789 vni 200 fib-idx 0 sw-if-idx 13
pmtu 1450 user 1 flags 0 encap-dpo-idx 20
[5] instance 5 src 10.23.1.14 dst 10.23.1.11 src_port 4789 dst_port 4789 vni 110 fib-idx 0 sw-if-idx 14
pmtu 1450 user 1 flags 0 encap-dpo-idx 20
[6] instance 6 src 10.23.1.14 dst 10.23.1.11 src_port 4789 dst_port 4789 vni 120 fib-idx 0 sw-if-idx 16
pmtu 1450 user 1 flags 0 encap-dpo-idx 20
[7] instance 7 src 10.23.1.14 dst 10.23.1.12 src_port 4789 dst_port 4789 vni 220 fib-idx 0 sw-if-idx 17
pmtu 1450 user 1 flags 0 encap-dpo-idx 19
[8] instance 8 src 10.23.1.14 dst 10.22.1.13 src_port 4789 dst_port 4789 vni 220 fib-idx 0 sw-if-idx 18
pmtu 1450 user 1 flags 0 encap-dpo-idx 18
[9] instance 9 src 10.23.1.14 dst 10.23.1.12 src_port 4789 dst_port 4789 vni 210 fib-idx 0 sw-if-idx 19
pmtu 1450 user 1 flags 0 encap-dpo-idx 19
```

The below example displays the VxLAN tunnel information on DMZ Edge device.

```
show Network# show vxlan tunnel
[0] instance 0 src 10.22.1.13 dst 10.23.1.14 src_port 4789 dst_port 4789 vni 120 fib-idx 0 sw-if-idx 8
pmtu 1450 user 1 flags 0 encap-dpo-idx 18
[1] instance 1 src 10.22.1.13 dst 10.23.1.14 src_port 4789 dst_port 4789 vni 220 fib-idx 0 sw-if-idx 9
pmtu 1450 user 1 flags 0 encap-dpo-idx 18
```

History

Release version	Command history
1.0.0	This command was introduced.

show vxlan tunnel profile

Displays the Virtual Extensible LAN (VxLAN) tunnel profile information.

Syntax

show vxlan tunnel profile

Modes

Network mode

Usage Guidelines

Command Output

The **show vxlan tunnel profile** command displays the following information.

Output field	Description
User	User that created the tunnel profile.
INST	The instance ID of the tunnel profile.
ID	The ID of the tunnel profile.
UUID	The unique identifier (UUID) of the tunnel profile.
Name	The name of the tunnel profile.
FF	Indicates whether Forced Fragmentation (FF) is enabled for the tunnel profile (Y/N).
MO	Indicates whether Manual Override (MO) is enabled for the tunnel profile (Y/N)
M-PMTU	The maximum packet size (MTU) allowed on the tunnel interface.
AGE-TIME	The age of the tunnel profile in seconds.
KA-INTERVAL	The keep-alive interval in seconds.
KA-RETRY	The number of keep-alive retries before declaring the tunnel down.

The following example shows sample output for the **show vxlan tunnel profile** command.

Examples

```
network# show vxlan tunnel profile
   USER        INST   ID            UUID                        NAME                FF?  MO?  M-PMTU
AGE-TIME KA-INTERVAL  KA-RETRY
   SD-LAN    (2)      2    20 SLb18ee155f4144271a3290e9503 Default tunnel profile   N    N      0
1200        2          5
PEER-TUNNEL  (3)     12    19 bb08e651cf864ea0bc522b84683f       DMZ tunnel         N    Y    1400
1200        2          5
2 vxlan tunnel profile(s)
```

History

Release version	Command history
1.0.0	This command was introduced.

show vxlan-gpe config

Displays Generic Protocol Extension for Virtual Extensible LAN (VxLAN-GPE) configuration details.

Syntax

show vxlan-gpe config

Command Default

No command default.

Modes

Network mode

Command Output

The **show vxlan-gpe config** command displays the following information.

Output field	Description
DynamicTunnel	Displays whether the dynamic tunnel feature for vxlan-gpe tunnels is enabled or disabled.
AgingTime	Inactivity (or age) for the dynamic VXLAN tunnels.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

The following examplae show the output of the **show vxlan-gpe config** command.

Examples

```
Network# show vxlan-gpe config
 DynamicTunnel:disabled DynTun-app-ref-cnt:0
 AgingTime:300
```

History

Release version	Command history
2.1.0	This command was introduced.

show vxlan-gpe dstats

Displays dynamic tunnel statistics for the Generic Protocol Extension for Virtual Extensible LAN (VxLAN-GPE) tunnels on the RUCKUS Edge device.

Syntax

show vxlan-gpe dstats

Command Default

No command default.

Modes

Network mode

Command Output

The **show vxlan-gpe dstats** command displays the following information.

Output field	Description
TunAddFail	Number of dynamic tunnel addition failures.
TunDelFail	Number of dynamic tunnel deletion failures.
IntfAddFail	Number of failures for the tunnel add actions performed by the service/user module.
IntfRemoveFail	Number of failures for the tunnel delete actions performed by the service/user module.
TunAddSuccess	Number of dynamic tunnel addition success.
TunDelSuccess	Number of dynamic tunnel deletion success.
IntfAddSuccess	Number of success for the tunnel add actions performed by the service/user module.
IntfRemoveSuccess	Number of success for the tunnel delete actions performed by the service/user module.
TunDecapPktsClamped	Number of payload TCP SYN/SYN-AC packets whose MSS got adjusted as per the tunnel pmtu value.
DynamicTunnelRequests	Number of requests sent to the main thread for creating dynamic VXLAN tunnels.
DecapHashTblAddFailures	Number of failures while trying to add the tunnel decap entry to the hash table.
DynamicTunnelCount	Total number of dynamic vxlan tunnels that are currently active.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Network# show vxlan-gpe dstats
 TunAddFail:0
 TunDelFail:0
 IntfAddFail:0
 IntfRemoveFail:0
 TunAddSuccess:132
 TunDelSuccess:123
 IntfAddSuccess:0
 IntfRemoveSuccess:0
 TunDecapPktsClamped:0

 DynamicTunnelRequests:132
 DecapHashTblAddFailures:0
 DynamicTunnelCount:9
```

History

Release version	Command history
2.1.0	This command was introduced.

show vxlan-gpe pmtu table

Displays the Generic Protocol Extension for Virtual Extensible LAN (VxLAN-GPE) PMTU updates received from APs for the RUCKUS Edge device.

Syntax

show vxlan-gpe pmtu table

Command Default

No command default.

Modes

Network mode

Command Output

The **show vxlan-gpe pmtu table** command displays the following information.

Output field	Description
IP-Address	IP address of the AP.
PMTU	Path MTU of the tunnel to this AP. This PMTU is reported by AP.
Time-Stamp	Time stamp when this AP last reported a change in PMTU.
Count	Number of times, this AP reported a change in the tunnel PMTU value.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Network# show vxlan-gpe pmtu table
     IP-Address        PMTU              Time-Stamp            Count
    192.168.31.3       1450         04/16/2024 04:11:12 AM       3
    192.168.30.2       1450         04/16/2024 03:41:00 AM       1
2 vxlan pmtu entries
```

History

Release version	Command history
2.1.0	This command was introduced.

show vxlan-gpe tunnel

Displays the Generic Protocol Extension for Virtual Extensible LAN (VxLAN-GPE) tunnel information for the RUCKUS Edge device.

Syntax

show vxlan-gpe tunnel

Command Default

No command default.

Modes

Network mode

Command Output

The **show vxlan-gpe tunnel** command displays the following information.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Network# show vxlan-gpe tunnel
[0] lcl 172.20.20.100 rmt 172.20.20.200 lcl_port 4790 rmt_port 4790 vni 16777215 fib-idx 0 sw-if-idx 6
user 0 pmtu-user-type 3 pmtu-user-inst 2 pmtu 1450 decap-next-protocol ethernet
[1] lcl 172.20.20.100 rmt 172.20.20.5 lcl_port 4790 rmt_port 4790 vni 50 fib-idx 0 sw-if-idx 7 user 1
pmtu-user-type 2 pmtu-user-inst 2 pmtu 1450 decap-next-protocol ethernet
[2] lcl 172.20.20.100 rmt 172.20.20.5 lcl_port 4790 rmt_port 4790 vni 100 fib-idx 0 sw-if-idx 8 user 1
pmtu-user-type 2 pmtu-user-inst 2 pmtu 1450 decap-next-protocol ethernet
[3] lcl 172.20.20.100 rmt 172.20.20.3 lcl_port 4790 rmt_port 4790 vni 100 fib-idx 0 sw-if-idx 9 user 1
pmtu-user-type 2 pmtu-user-inst 2 pmtu 1450 decap-next-protocol ethernet
[4] lcl 172.20.20.100 rmt 172.20.20.5 lcl_port 4790 rmt_port 4790 vni 16777215 fib-idx 0 sw-if-idx 11
user 2 pmtu-user-type 4 pmtu-user-inst 0 pmtu 1450 decap-next-protocol ethernet
[5] lcl 172.20.20.100 rmt 172.20.20.200 lcl_port 4790 rmt_port 4790 vni 100 fib-idx 0 sw-if-idx 12 user
1 pmtu-user-type 3 pmtu-user-inst 2 pmtu 1450 decap-next-protocol ethernet
[6] lcl 172.20.20.100 rmt 172.20.20.3 lcl_port 4790 rmt_port 4790 vni 16777215 fib-idx 0 sw-if-idx 13
user 2 pmtu-user-type 4 pmtu-user-inst 0 pmtu 1450 decap-next-protocol ethernet
```

Release version	Command history
2.1.0	This command was introduced.

show vxlan-gpe tunnel keepalive session

Displays Generic Protocol Extension for Virtual Extensible LAN (VxLAN-GPE) tunnel keepalive session information. The AP uses the tunnel keepalive messages to bring up the tunnel to the device and to monitor the health of the tunnel. Without the keep-alive feature, if the Edge device becomes unreachable, the AP will continue tunneling traffic to the Edge, causing the traffic to be lost in the network. With the keep-alive feature enabled, the AP will generate events, bring down the tunnel, and stop broadcasting WLANs whenever the Edge device is unreachable. Additionally, the AP will periodically report its tunnel status to the RUCKUS One controller.. These details will assist in troubleshooting.

Syntax

show vxlan-gpe tunnel keepalive session [**peer** *<peer-ip>*] [**summary** | **detail**]

Command Default

No command default.

Parameters

peer *<peer-ip>*

Specifies the IP address of the tunnel peer.

summary

Displays a brief summary of only the total number active and backup tunnel keepalive sessions.

detail

Displays detailed keepalive session information.

Modes

Network mode

Command Output

The **show vxlan-gpe tunnel keepalive session** [**summary** | **detail**] command displays the following information.

Output field	Description
Total active tunnel keepalive sessions	Displays the total number of active keepalive sessions to the RUCKSU Edge device.
Total backup tunnel keepalive sessions	Displays the total number of backup keepalive sessions to the RUCKSU Edge device.
Peer IP	Displays the IP address of the tunnel peer.
Start time	Displays the time since the keepalive session were established.
Status	Displays if the session is *Up* or *Down*.
Active/Backup	Displays whether the Edge device is Active (Peer forwards traffic to this Edge device) or back up (Peer is not forwarding any traffic to this Edge device at this moment but will start forwarding once its current Active Edge goes down) Edge for this session.
Mode	Initiator (This Edge device initiated the keepalive session to the Peer) / Responder (This Edge is only responding to keepalive request initiated by the Peer).

Output field	Description
Interval and Retry	Keepalive Session transmit Interval in seconds and Max Retry before it declares the session as down or peer as un-reachable. This is only displayed for for Initiator keepalive sessions.
Start time	Time since keepalive session was established.
Age Remaining	Keepalive Session will Age out after these many second if no packets are received from the tunnel Peer.

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

The below example displays the tunnel keepalive session summary information.

```
vpp# show vxlan-gpe tunnel keepalive session peer 192.168.31.3 summary
'summary' and 'Peer' option are mutually exclusive
vpp# show vxlan-gpe tunnel keepalive session summary
Total active tunnel keepalive sessions:2
Total backup tunnel keepalive sessions:3
vpp#
```

The below example displays the tunnel keepalive session information.

```
vpp# show vxlan-gpe tunnel keepalive session
  #       Peer IP                Start time             Status   Active/Backup
  1     192.168.31.3         2024-09-26  17:37:05          Up        Backup
  2     192.168.30.4         2024-09-26  22:40:27          Up        Active
  3     192.168.31.4         2024-09-26  22:40:33          Up        Backup
  4     192.168.31.7         2024-09-26  23:29:35          Up        Active
  5    192.168.10.14         2024-09-26  22:40:36          Up        Backup
vpp# show vxlan-gpe tunnel keepalive session peer 192.168.31.3
  #       Peer IP                Start time             Status   Active/Backup
  1     192.168.31.3         2024-09-26  17:37:05          Up        Backup
vpp# show vxlan-gpe tunnel keepalive session peer 192.168.31.3 detail
Peer IP address : 192.168.31.3
   Mode : Responder
   Session state: Up (Backup)
   Start time: 2024-09-26  17:37:05
   Last PDU received :       1.68 seconds ago
   Last PDU transmit :       1.68 seconds ago
   Age remaining : 5 seconds
   Keepalive Request Packets        Sent:  0        Received:     22611
   Keepalive Reply Packets          Sent:22611      Received:       0
   Keepalive Connection Packets     Sent:  0        Received:       1
   Keepalive BackUp Packets         Sent:  0        Received:     18245
```

The below example displays the tunnel keepalive session detail.

```
show vxlan-gpe tunnel keepalive session detail
Peer IP address : 2.1.1.1
   Mode : Initiator
   Interval: 2   Retry: 5
   Session state: Up (Active)
   Start time: 2024-08-14  05:50:23
   Last PDU received :       1.57 seconds ago
   Last PDU transmit :       1.57 seconds ago
   Age remaining : 10 seconds
   Keepalive Request Packets        Sent:  51       Received:       0
   Keepalive Reply Packets          Sent:  0        Received:       49
   Keepalive Connection Packets     Sent:  3        Received:       0
   Keepalive BackUp Packets         Sent:  0        Received:       0

Peer IP address : 2.1.1.3
   Mode : Initiator
   Interval: 2   Retry: 5
   Session state: Down (Active)
   Start time:  -
   Last PDU received :       0.00 seconds ago
   Last PDU transmit :        .57 seconds ago
   Age remaining : 0 seconds
   Keepalive Request Packets        Sent:  51       Received:       0
   Keepalive Reply Packets          Sent:  0        Received:       0
   Keepalive Connection Packets     Sent:  5        Received:       0
   Keepalive BackUp Packets         Sent:  0        Received:       0

For Responder Session :
=======================
show vxlan-gpe  tunnel keepalive session detail
Peer IP address : 2.1.1.2
   Mode : Responder
   Session state: Up (Active)
   Start time: 2024-08-14  05:50:24
   Last PDU received :       1.36 seconds ago
   Last PDU transmit :       1.36 seconds ago
   Age remaining : 9 seconds
   Keepalive Request Packets        Sent:  0        Received:      234
   Keepalive Reply Packets          Sent: 234       Received:       0
   Keepalive Connection Packets     Sent:  0        Received:       1
   Keepalive BackUp Packets         Sent:  0        Received:       0
```

The below example displays the tunnel keepalive session peer detail.

```
show vxlan-gpe  tunnel keepalive session peer 2.1.1.1 detail
Peer IP address : 2.1.1.1
   Mode : Initiator
   Interval: 2   Retry: 5
   Session state: Up (Active)
   Start time: 2024-08-14  05:50:23
   Last PDU received :        .89 seconds ago
   Last PDU transmit :        .89 seconds ago
   Age remaining : 9 seconds
   Keepalive Request Packets        Sent: 142       Received:       0
   Keepalive Reply Packets          Sent:  0        Received:      140
   Keepalive Connection Packets     Sent:  3        Received:       0
   Keepalive BackUp Packets         Sent:  0        Received:       0
```

History

Release version	Command history
2.1.0	This command was introduced.

Commands Sh through T

shutdown

Shutdown the device immediately.

Syntax

shutdown

Command Default

No command default.

Modes

Advanced mode

Usage Guidelines

Use this command to reboot the whole system gracefully.

Examples

```
Edge-VM-1-867# shutdown
? Warning! This action will immediately shutdown the device.
Do you really want to shutdown the device?
(yes/N)
```

History

Release version	Command history
2.1.0	This command was introduced.

support-core

Collects core-dump related information.

Syntax

support-core [**all** | **list** | **filename** *filename*]

Modes

Basic mode

Advanced mode

all

Collects the core-dump information and uploads it to a fileserver.

filename

Select a core file with a specific filename.

list

Lists all the core-dump filenames in the system.

Usage Guidelines

filename

Specify the filename for a particular core file.

Examples

```
Edge# support-core
  Collect core-dump related info

  Available Commands:
      all         Collect core-dump related info all
      filename    Select a core file with the specific filename, get file names through [support-core
list] command
      list        List all core-dump filename

Edge# support-core all
Succeeded to collect core-dump information, filename: coredump.tar.gz

Edge# support-core list
File Size: 68123698, File Name: core.vpp_main.0.2726hgn47dgb789hvhjk368018hownxy79553329d48er7hgs.
10551.1658000320000.lz4
```

History

Release version	Command history
1.0.0	This command was introduced.

support-export

Exports debug related information.

Syntax

support-export [**rpoint** *filename* | { [**scp** | **sftp** { **all** | **core** | **log** } *target IP user destination path*] }

Parameters

rpoint
Export debug information through the rpointv2 protocol.

scp
Export debug information through the SCP protocol.

sftp
Export debug information through the SFTP protocol.

all

core

log

filename
Specify the filename.

target IP
The IP address of the target

user

destination path
Specify the destination path.

Modes

Basic mode

Advanced mode

Usage Guidelines

The three options for uploading the core and the log file bundle to the server are: rpointv2, SCP, and SFTP protocols.

The following example exports all debug related information from the specified IP address to a destination using the SCP protocol.

Examples

```
Edge# support-export scp all 10.176.154.37 user /tmp/
Please enter the destination user password:
The remote host  10.176.154.37  ECDSA key fingerprint is  SHA256:ZMR7qlPZllOx7ghytuO9J19eDYv53kjkEyN
+KRneyj320 .
Are you sure to connect (yes/no)?
yes
Succeed to scp the debug info file(logs-2024-05-02_17-33-34.tar.gz).
Succeed to scp the debug info file(coredump-2024-05-02_17-44-52.tar.gz).
```

History

Release version	Command history
1.0.0	This command was introduced.

support-log

Collects the log-related debug information into a filename.

Syntax

support-log

Modes

Basic mode

Advanced mode

Usage Guidelines

Examples

```
Edge# support-log
Succeeded to collect log debug information, file name: logs.tar.gz
```

History

Release version	Command history
1.0.0	This command was introduced.

stats

Displays the statistics.

Syntax

stats

Modes

Advanced mode

Usage Guidelines

This command is supported only on the RUCKUS Edge device.

Examples

```
Edge# stats
I0825 10:46:35.341961      14 command.go:47] "Print basic info about the application" version="unknown"
goVersion="go1.20.7" gitCommit="0a892f567ce4bad71e9d95dbf9643425b358128f"
buildTime="2023-08-17T03:29:42+0000" compiler="gc" os="linux" arch="amd64" cores=2
I0825 10:46:35.342108      14 main.go:29] "config ready" log-level=""
```

History

Release version	Command history
1.0.0	This command was introduced.

switch-over

Initiates a switch-over between the active and standby nodes in a cluster.

Syntax

switch-over

Command Default

Modes

Cluster mode

Usage Guidelines

This command can only be executed when the current node is in an active state. This is used in high-availability setups for maintaining uninterrupted service.

Examples

The following example initiates switch-over.

```
Edge# cluster
(cluster)# switch-over
2024-09-18T19:01:32Z:cmutils.WaitForGenResp>  >Received from server:
964ACA206E07F411EF84A0000C29488571:Reply:
```

History

Release version	Command history
1.0.0	This command was introduced.

system

Displays system information.

Syntax

system { **enroll-device** *otp-number* | **reboot** | **reset** | **show serial** }

Modes

Advanced mode

System mode

Parameters

enroll-device
: Enroll the device certificate using OTP.

reboot
: Reboot the system.

reset
: Reset the system configuration to its default settings.

show serial
: Displays the serial number.

otp-number
: Enter the One Time Password (OTP) received through email or SMS.

Usage Guidelines

When the new RUCKUS Edge device is added, ACX will automatically send an OTP notification to your email or SMS. Before enrolling, go to the Connect Agent mode from the Advanced mode and enter the reachable DRS server domain name.

The following example shows how to enter the DRS server domain name before enrolling a device.

```
Edge# connect-agent
(connect-agent)# set drs-address drsqa.ruckuswireless.com
Set DRS address (drsqa.ruckuswireless.com) successfully.

Edge# system
(system)# enroll-device YLM453
Successfully enrolled device certificate.

Edge# system
(system)# show serial
Device Serial: 964ACA206E07F41123240000C29488571
```

History

Release version	Command history
1.0.0	This command was introduced.

start dhcp client

Starts the Dynamic Host Configuration Protocol (DHCP) client on a network interface.

Syntax

start dhcp client *interface*

Command Default

The DHCP client is not configured.

Parameters

port

Specifies the port.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example starts the DHCP client on the interface, port1.

```
Edge# network
Network# start dhcp client port1
```

History

Release version	Command history
1.0.0	This command was introduced.

stop dhcp client

Configures or deletes the Domain Name System (DNS) server on RUCKUS Edge.

Syntax

stop dhcp client *interface*

Command Default

The DHCP client is not configured.

Parameters

port

Specifies the port.

Modes

Network configuration mode

Usage Guidelines

This command is supported only on RUCKUS Edge.

Examples

The following example stops the DHCP client on the interface, port1.

```
Edge# network
Network# stop dhcp client port1
```

History

Release version	Command history
1.0.0	This command was introduced.

traceroute

Determines the path through which a RUCKUS Edge can reach another device.

Syntax

traceroute [*ipv4-address* | *domain*]

Parameters

ipv4-address

Specifies the IPv4 address of the destination host.

domain

Specifies the domain name of the destination host.

Modes

Network configuration mode

Usage Guidelines

TBD

Examples

The following example traces the path that packets take from your RUCKUS Edge to a specified destination.

```
Edge# network
Network# traceroute 168.95.1.1
traceroute to 168.95.1.1 (168.95.1.1), 30 hops max, 46 byte packets
1 10.42.0.1 (10.42.0.1) 0.007 ms 0.005 ms 0.004 ms
2 10.254.1.254 (10.254.1.254) 0.525 ms 0.403 ms *
3 10.206.67.254 (10.206.67.254) 8.131 ms 14.550 ms 9.191 ms
4 10.7.42.30 (10.7.42.30) 0.882 ms 0.755 ms 0.699 ms
```

History

Release version	Command history
1.0.0	This command was introduced.

350 West Java Dr., Sunnyvale, CA 94089 USA
https://www.commscope.com