



Ruckus Virtual SmartZone-Data Plane (vSZ-D) Quick Setup Guide

Supporting SmartZone 5.1

This *Quick Setup Guide* provides basic instructions for setting up the Ruckus Virtual SmartZone Data Plane (vSZ-D) on the network. For information on advanced configuration and management options, see the *vSZ-D Command Line Interface (CLI) Reference Guide*, which is available for download from the Ruckus Support website: <https://support.ruckuswireless.com/documents>

Before You Begin

Before deploying Ruckus Wireless products, please check for the latest software and the release documentation.

- Release Notes and other user documentation are available at <https://support.ruckuswireless.com/documents>.
- Software upgrades are available at <https://support.ruckuswireless.com/software>.
- Open source information is available at <https://opensource.ruckuswireless.com>.
- Software license and limited warranty information are available at <https://support.ruckuswireless.com/warranty>.
- Refer to the *vSZ-D Configuration Guide* for the upgrade process.

Important Notes

- If you are upgrading both Virtual SmartZone (vSZ) and vSZ DataPlane (vSZ-D), Ruckus Wireless recommends upgrading the vSZ software first, before upgrading the vSZ-D software.
- The minimum memory and CPU requirements of vSZ may have changed in this release. To ensure that the

virtual machine on which you are installing vSZ has sufficient resources to handle the number of APs and wireless clients that you plan to manage, refer to the “Virtual SmartZone Recommended Resources” section of the *Release Notes*.

- For information on how to upgrade the vSZ-D software to this release, see the *vSZ-D Configuration Guide*.

What You Will Need

- A hypervisor on which to install vSZ-D (see [Table 1](#))
- The vSZ-D distribution package (.OVA file), which is available for download from the Ruckus Wireless Support website
- The IP address, netmask, gateway and DNS server addresses assigned to the vSZ controller - if it has a static network address (recommended).
- A virtual machine that meets the recommended system resources for the number of APs and wireless clients that you plan to manage.

TABLE 1 Hypervisors that vSZ-D supports

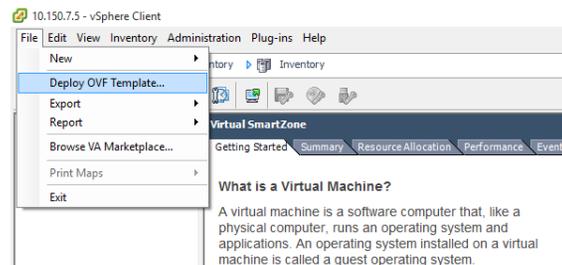
Vendor	Hypervisor	Version
VMWare	ESXi	6.7 and later
KVM	Linux	CentOS 7.4 (64 bit)

Step 1: Install and Start vSZ-D on the Hypervisor

Using the OVA file that you downloaded from the Ruckus Wireless Support site, install an instance of the vSZ-D on the hypervisor.

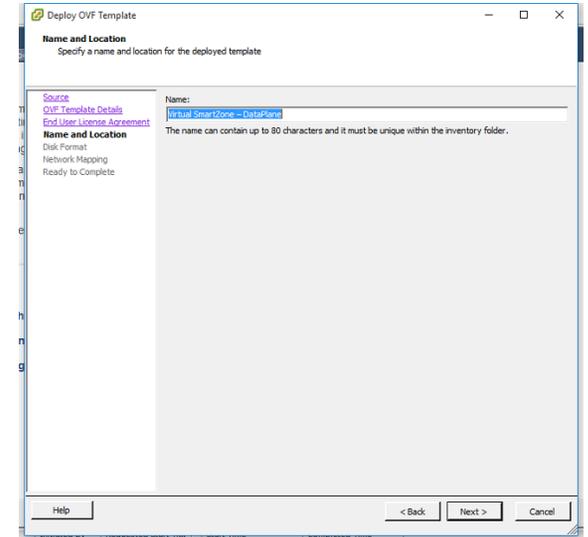
1. On the vSphere client, click **File > Deploy OVF template**.

FIGURE 1 Deploy OVF Template



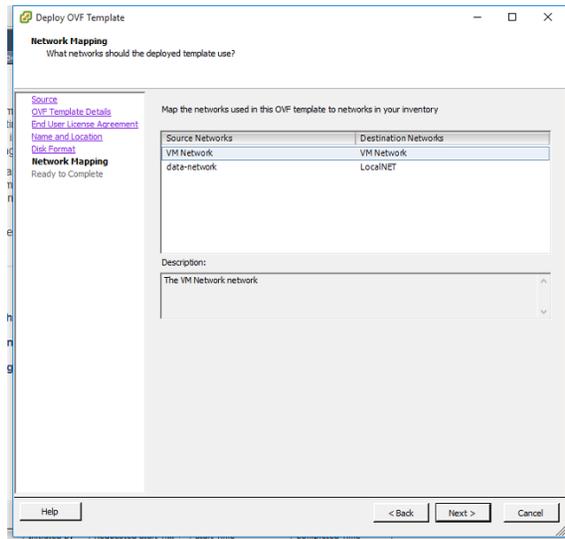
2. Select the vSZ-D OVA file that you downloaded from the Ruckus Wireless Support website, and click **Next**.
3. Review the OVF template details, and click **Next**.
4. Read and accept the end user license agreement, and click **Next**.
5. Assign a name to this vSZ-D instance that you are deploying (or accept the default name), and click **Next**.

FIGURE 2 Assign vSZ-D name



6. Select the disk format that you want to use for your deployment, and click **Next**.
7. Select the network mapping that you want this vSZ-D instance to use, and click **Next**.

FIGURE 3 Network Mapping

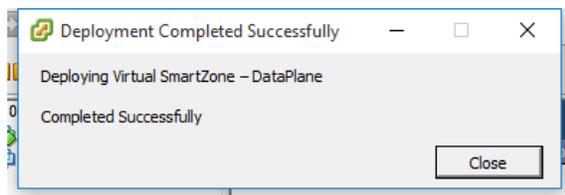


8. Click **Finish** to start the vSZ-D deployment.

A progress bar appears and displays the vSZ-D installation status. When the installation process is complete, the following message appears:

```
Deployment Completed Successfully
```

FIGURE 4 vSZ-D Installation Complete



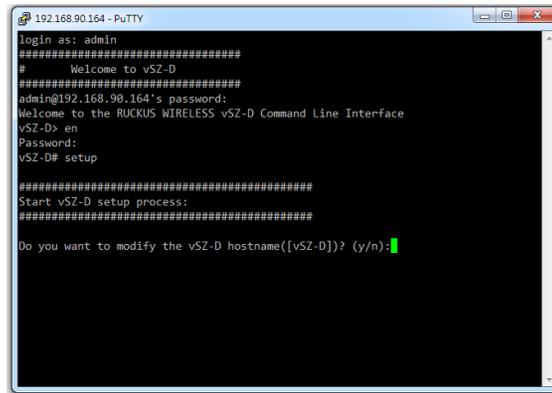
9. Click **Close**.
10. On the **Getting Started** tab of the vSphere client, click **Power on the virtual machine** to start the vSZ-D instance that you installed.

Step 2: Run and Complete the vSZ-D Setup

In this task, you will define the management and data interface settings that you want vSZ-D to use.

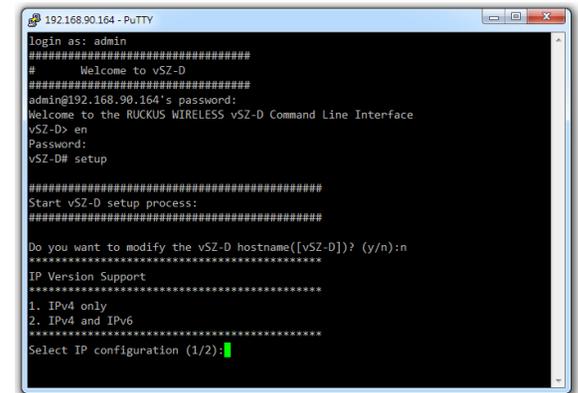
1. Use an SSH client to connect to the IP address assigned to the vSZ-D instance. Alternatively, click the Console tab on the vSphere client to connect to the vSZ-D instance.
2. In `login as:`, enter **admin**. The message “Welcome to vSZ-D” appears.
3. In `password:` enter **admin**. The `vSZ-D>` prompt appears.
4. Enter **en** to enter the privileged mode.
5. In `password:` enter **admin**. The `vSZ-D#` prompt appears.
6. Enter **setup**. The message “Start vSZ-D setup process” appears.

FIGURE 5 Modify the vSZ-D hostname



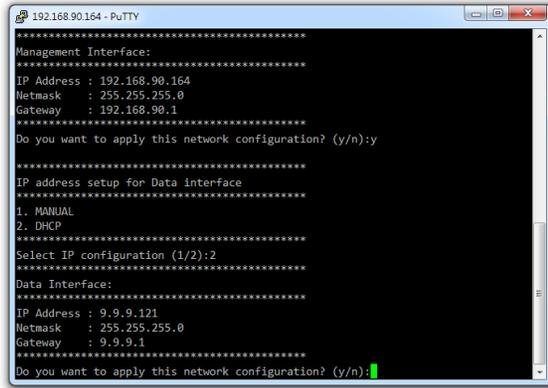
7. When the prompt “Do you want to modify the vSZ-D hostname ([vSZ-D])? (y/n) appears,” enter **n** to keep the default host name or **y** to change it. If you entered **y**, the next prompt asks you to enter the new hostname.
The next prompt asks you to choose the IP version you want to support on the network.

FIGURE 6 IP configuration choice



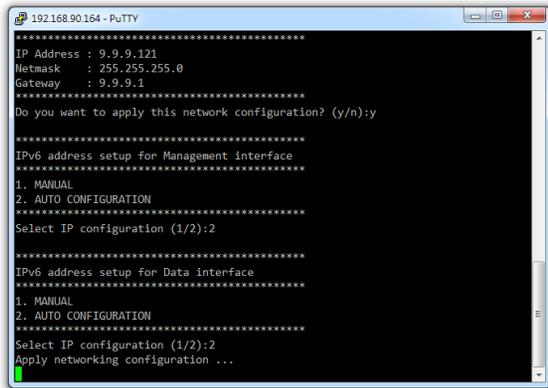
8. Enter **1** to support IPv4 only, or enter **2** to support both IPv4 and IPv6.
The next prompt asks you to choose how you want to set up the management interface IP address.
9. Enter **1** if you want to manually assign an IP address to the management interface, or enter **2** to automatically obtain an IP address from a DHCP server on the network.
If you entered **1** (Manual), the next prompt asks you to enter the IP address settings that you want to manually assign.
The next prompt asks you to confirm that you want to apply the IP address settings that you configured at the previous prompts.
10. Enter **y** to confirm and continue.
The next prompt asks you to choose how you want to set up the data interface IP address.
11. Enter **1** if you want to manually assign an IP address to the data interface, or enter **2** to automatically obtain an IP address from a DHCP server on the network.
If you entered **1** (Manual), enter the IP address settings that you want to manually assign.
The next prompt asks you to confirm that you want to apply the IP address settings that you configured in the previous prompts.

FIGURE 7 Apply IP settings



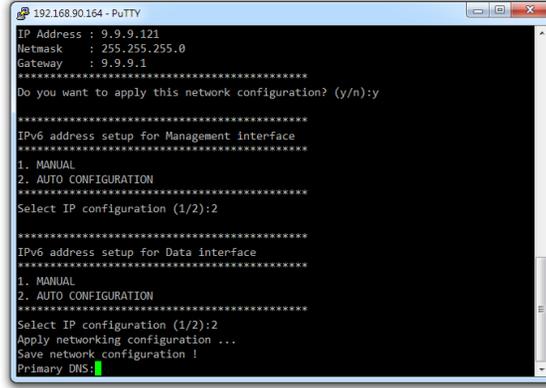
12. Enter **y** to confirm and continue.
The message “Apply networking configuration...” appears.

FIGURE 8 Apply Network Configuration



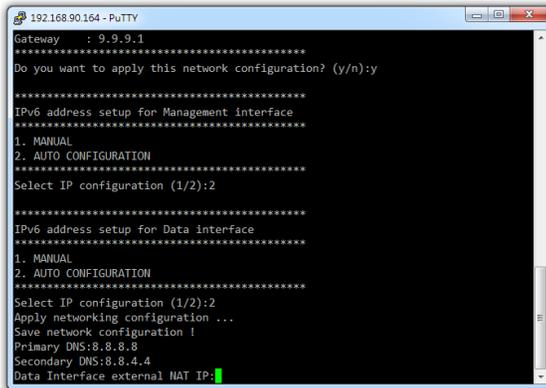
13. At the **Primary DNS** prompt, enter the IP address or host name of the primary DNS server that you want vSZ-D to use.

FIGURE 9 Primary DNS server



14. At the **Secondary DNS** prompt, enter the IP address or host name of the secondary DNS server that you want vSZ-D to use.

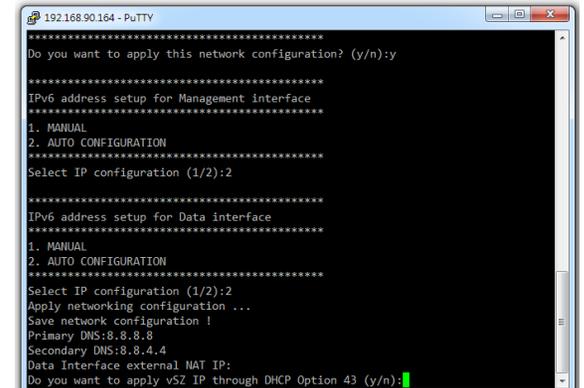
FIGURE 10 NAT server



15. At the **Data Interface external NAT IP** prompt, enter the public IP address of the NAT server (if you have one) on the network. If you do not have a NAT server on the network, leave the field blank and simply press **<Enter>**.

The next prompt asks you if you want vSZ-D to automatically discover a vSZ controller on the network using DHCP Option 43 (if you have configured this on your DHCP server).

FIGURE 11 DHCP Option 43

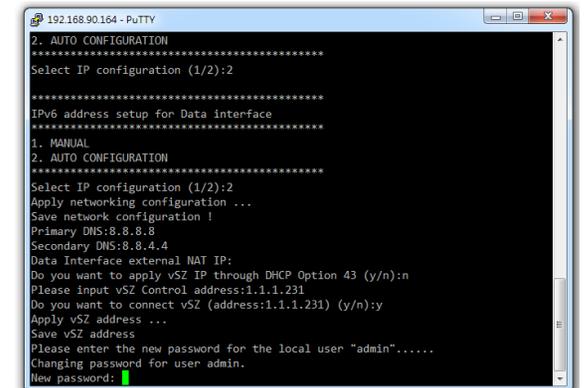


16. Enter **y** to use DHCP Option 43 or enter **n** to manually enter the vSZ controller’s IP address.

If you entered **n**, the next prompt asks you for the IP address of the vSZ controller with which you want this vSZ-D instance to join. For vSZ configured with three (3) IP interfaces, enter the vSZ control interface IP address.

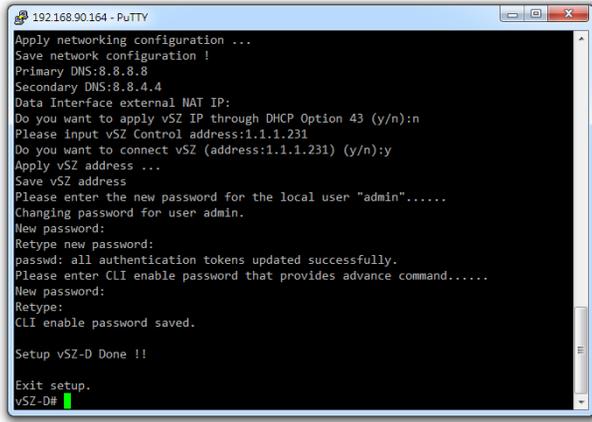
17. At the **new password** prompt, enter the password that you want to assign to the vSZ-D management interface.

FIGURE 12 New password



The message **Setup vSZ-D Done !!** appears. You have completed setting up vSZ-D on the network.

FIGURE 13 vSZ-D setup complete



```
192.168.90.164 - PuTTY
Apply networking configuration ...
Save network configuration !
Primary DNS:8.8.8.8
Secondary DNS:8.8.4.4
Data Interface external NAT IP:
Do you want to apply vSZ IP through DHCP Option 43 (y/n):n
Please input vSZ Control address:1.1.1.231
Do you want to connect vSZ (address:1.1.1.231) (y/n):y
Apply vSZ address ...
Save vSZ address
Please enter the new password for the local user "admin".....
Changing password for user admin.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Please enter CLI enable password that provides advance command.....
New password:
Retype:
CLI enable password saved.

Setup vSZ-D Done !!

Exit setup.
vSZ-D#
```

Step 3: Approve vSZ-D to Register with the vSZ Controller

The last step is to approve vSZ-D to allow it to join the vSZ controller on the network.

1. Log on to the web interface of the vSZ controller with which you want vSZ-D to register.
2. Go to **System > Cluster**.
3. Scroll down to the **Data Planes** section.
4. Select the vSZ-D instance that you deployed from the list, and click **Approve**.

You have completed approving vSZ-D to register with vSZ.

Related Documentation

You can configure the vSZ-D from the command line interface (CLI). For information on how to use the CLI to configure the vSZ-D, see the *vSZ-D CLI Reference Guide*.

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