

# How to Configure Cloudpath to Send Data to an ELK Server

Supporting Software Release 5.2

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# Overview

The Cloudpath Enrollment System (ES) provides information about secure wireless traffic in the form of enrollment, user, and certificate records, as well as scheduled reports, and Cloudpath provides the ability to export this data into a spreadsheet or CSV file.

Starting with Cloudpath version 4.x, you can configure the Cloudpath to send data to an existing Elasticsearch, Logstash, or Kibana (ELK) server.

## NOTE

This feature is currently in the beta state, as we continue to develop and improve the integration. We encourage customers with an existing ELK system, and early adopters, to test this new functionality. Please submit questions and feedback on this feature by contacting our support desk at [cloudpathsupport@ruckuswireless.com](mailto:cloudpathsupport@ruckuswireless.com).

## NOTE

Cloudpath supports version 5.5.2 of the ELK schema.

This feature is available on Cloudpath version 4.2.x, and later.

# Prerequisites

This set of instructions assumes you are using CentOS and Apache (httpd), but this configuration should work with other systems.

# Setting Up the System

## ELK Server Configuration

1. Download and install Elasticsearch, Logstash, and Kibana as outlined on the <https://www.elastic.co/products> website.
2. Edit the `/etc/elasticsearch/elasticsearch.yml` file.
3. Give the `cluster.name` a unique name.
4. Enter the **`service elasticsearch start`** command.
5. Configure services to run on boot using these commands:
  - **`chkconfig --add elasticsearch`** (adds it as a service)
  - **`chkconfig --add logstash`** (adds it as a service)
  - **`chkconfig elasticsearch`** (tells the service to auto-run at boot level 3, 5, and 6)
  - **`on`** (tells the service to auto-run at boot level 3, 5, and 6)
6. Enter the **`service logstash start`** command.
7. Enter the **`httpd restart`** command.
8. Enter the **`iptables -A INPUT -p tcp -m tcp --dport 9200 -j ACCEPT`** command.

## Cloudpath Configuration

Configure the Cloudpath to communicate with the ELK server.

1. Enter the *Hostname* and *Port* of the reporting server. By default, the port number is 9200
2. Select the Frequency of data uploads from the Cloudpath to the ELK server.
3. Create a new workflow snapshot on the **Configuration > Workflows** page.

## Viewing the Cloudpath Data

To view the Cloudpath data on your ELK server, open a browser to **http://<ELK server hostname>:5901**.

### NOTE

The **Use Index** contains time-based events. We recommend using '\*' for the **index**, and then select **enrollmentStart** in the **Time-field name** drop-down box.