



# Cisco Crosswork Data Gateway 4.5 Release Notes for Cloud Applications

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This document provides information about Cisco Crosswork Data Gateway 4.5 for Cloud applications, including features, compatibility information, known issues, and limitations.

## Product Overview

Cisco Crosswork Data Gateway is a model-driven scalable data collection platform that enables real-time data collection from multi-protocol capable devices, thereby reducing the need for multiple collection points for multiple applications requiring data from the network.

Cisco Crosswork Data Gateway offers central visibility into services collecting data and the type of data being collected.

Cisco Crosswork Data Gateway is not a standalone product and is expected to be used with Crosswork Cloud applications. There is no separate software license needed for Cisco Crosswork Data Gateway.

## Release Details

Cisco releases updated builds of Crosswork Data Gateway on the [Cisco Support & Software Download](#) site.

Cisco Crosswork Data Gateway can be installed into a data center using any of the platforms listed in the following table. The file used for deployment is unique to each of these environments.

**Table 1: Crosswork Data Gateway 4.5 Release Details**

Platform	Use
VMware	* .ova file. <b>Note</b> When using the latest Mozilla Firefox version to download the .ova image, if the downloaded file has the extension as .dms, change the extension back to .ova before installation.
OpenStack Platform	* .qcow2 BIOS file.
Amazon EC2	.ami file.



**Note** Direct upgrade from a previous Crosswork Data Gateway version is not supported. You must create a new VM with the same parameters that replaces the existing Crosswork Data Gateway.

## What's New

This section lists the features and enhancements delivered in Crosswork Data Gateway 4.5 for Cloud Applications.

**Table 2: New Features in Crosswork Data Gateway 4.5 for Cloud Applications**

Feature	Description
<b>Introduced data collection from an Amazon datacenter</b>	Cisco Crosswork Data Gateway enables the periodic data collection from the Amazon Elastic Compute Cloud web service and forwards the data to the Cisco Crosswork Cloud applications. These applications use the data for analysis and if required, alert an administrator for further action.
<b>Additional vNIC to channel custom traffic</b>	Provision to configure a dedicated vNIC (vNIC03) to route custom traffic such as SSH.
<b>Enhancement to the Crosswork Data Gateway Interactive Console</b>	The Interactive Console is improved with the following changes: <ul style="list-style-type: none"> <li>You can create an enrollment package file on your local machine by copying and pasting the package contents from the interactive console.</li> <li>Using the controller session test option utility is available to test if an installed Crosswork Data Gateway is able to establish a connection with Crosswork Cloud. The utility also validates and analyzes the discrepancies between the resources (CPU and memory) assigned to the VM and the resources prescribed by the deployment profile.</li> </ul>
<b>Improvements to the Crosswork Data Gateway image</b>	The AMI image format is enhanced to include DHCP support. After the image is booted, it enables registration with Crosswork Cloud.
<b>Enhancements to the internal REST API</b>	The remote debugging capabilities are improved using the internal REST API responsible for packet capture and tcpdump.

The following bug is resolved in this release:

## Compatibility Information

Cisco Crosswork Data Gateway 4.5 for Cloud applications has been validated for use with the following Crosswork Cloud applications:

- Cisco Crosswork Trust Insights is a cloud-based SaaS solution that reports on the integrity of devices and provides forensics for assured inventory.

- Cisco Crosswork Cloud Traffic Analysis service is a hosted application that provides rich analysis, visualization, and optimization recommendations for network traffic flows.

Cisco Crosswork Data Gateway must be deployed using the **Crosswork Cloud** profile for use with Crosswork Cloud applications. For information on deployment, see [Cisco Crosswork Data Gateway 4.5 Installation and Configuration Guide for Cloud Applications](#).

[Table 3: Cisco Crosswork Data Gateway VM Requirements for Cloud applications, on page 3](#) shows software requirements for the supported virtualization platforms along with the physical and network resource requirements needed to support the Crosswork Data Gateway.

The resource requirements to install Crosswork Data Gateway are the same for all the data centers.

**Table 3: Cisco Crosswork Data Gateway VM Requirements for Cloud applications**

Requirement	Description
Data Center	<p><b>VMware</b></p> <ul style="list-style-type: none"> <li>• VMware vCenter server 6.7, ESXi 6.5</li> <li>• VMware vCenter Server 7.0, ESXi 6.5 and 6.7.</li> </ul> <p><b>Attention</b> In VMware vCenter 6.5 (Flash and HTML5 interfaces) and 6.7 releases (6.7U1), the GUI installer does not process the OVF parameter list correctly. To prevent this issue, ensure that the following parameters in the <b>vCenter vSphere Client &gt; Deploy OVF Template &gt; Customize template &gt; 03. vNIC Role Assignment</b> are specified as:</p> <ul style="list-style-type: none"> <li>• The interface for <b>03. vNIC Role Assignment &gt; e. Control</b> must be <code>eth0</code></li> <li>• The interface for <b>03. vNIC Role Assignment &gt; g. Northbound External Data</b> must be <code>eth0</code></li> <li>• The interface for <b>03. vNIC Role Assignment h. Southbound Data</b> must be <code>eth0</code></li> <li>• The <b>16. Controller Setting &gt; a. Crosswork Controller IP</b> should be <code>crosswork.cisco.com</code></li> <li>• The <b>16 Controller Setting &gt; b. Crosswork Controller Port</b> should be <code>443</code></li> </ul> <p><b>OpenStack</b></p> <ul style="list-style-type: none"> <li>• OpenStack OSP16</li> </ul> <p><b>Amazon</b></p> <ul style="list-style-type: none"> <li>• Amazon Elastic Cloud Compute</li> </ul>
Memory	32 GB

Requirement	Description																									
Total Disk space (Boot disk + Data disk)	74 GB (50 GB + 24 GB)																									
vCPU	8																									
Interfaces	Minimum: 1 Maximum: 4 Crosswork Data Gateway can be deployed with either 1, 2, 3, or 4 interfaces as per the combinations below:																									
	<table border="1"> <thead> <tr> <th>No. of NICs</th> <th>vNIC0</th> <th>vNIC1</th> <th>vNIC2</th> <th>vNIC3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> <ul style="list-style-type: none"> <li>• Management Traffic</li> <li>• Control/Data Traffic</li> <li>• Device Access Traffic</li> </ul> </td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>2</td> <td> <ul style="list-style-type: none"> <li>• Management Traffic</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Control/Data Traffic</li> <li>• Device Access Traffic</li> </ul> </td> <td>—</td> <td>—</td> </tr> <tr> <td>3</td> <td> <ul style="list-style-type: none"> <li>• Management Traffic</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Control/Data Traffic</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Device Access Traffic</li> </ul> </td> <td>—</td> </tr> <tr> <td>4</td> <td>—</td> <td>—</td> <td>—</td> <td>Custom traffic</td> </tr> </tbody> </table>	No. of NICs	vNIC0	vNIC1	vNIC2	vNIC3	1	<ul style="list-style-type: none"> <li>• Management Traffic</li> <li>• Control/Data Traffic</li> <li>• Device Access Traffic</li> </ul>	—	—	—	2	<ul style="list-style-type: none"> <li>• Management Traffic</li> </ul>	<ul style="list-style-type: none"> <li>• Control/Data Traffic</li> <li>• Device Access Traffic</li> </ul>	—	—	3	<ul style="list-style-type: none"> <li>• Management Traffic</li> </ul>	<ul style="list-style-type: none"> <li>• Control/Data Traffic</li> </ul>	<ul style="list-style-type: none"> <li>• Device Access Traffic</li> </ul>	—	4	—	—	—	Custom traffic
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<ul style="list-style-type: none"> <li>• Management traffic: for accessing the Interactive Console and troubleshooting the Crosswork Data Gateway VM.</li> <li>• Control/Data traffic: to receive configuration of collection jobs from the Crosswork Cloud and to forward collected data to the Crosswork Cloud.</li> </ul> <p><b>Important</b> Crosswork Data Gateway can connect to the Cloud only when the Control/Data interface has access to the Internet.</p> <ul style="list-style-type: none"> <li>• Device access traffic: for device management and telemetry data.</li> <li>• Custom traffic: for routing the custom traffic such as SSH traffic.</li> </ul>																										

Requirement	Description
IP Addresses	<p>One, two, or three IPv4 or IPv6 addresses based on the number of interfaces you choose to use.</p> <p><b>Note</b> Crosswork does not support dual stack configurations. Therefore, ALL addresses for the environment must be either IPv4 or IPv6.</p>
NTP Servers	<p>The IPv4 or IPv6 addresses or host names of the NTP servers you plan to use. If you want to enter multiple NTP servers, separate them with spaces. These should be the same NTP servers you use to synchronize devices, clients, and servers across your network.</p> <p><b>Note</b> Confirm that the NTP IP address or host name is reachable on the network or installation fails.</p> <p>The Crosswork Data Gateway host and virtual machine must be synchronized to an NTP server or the enrollment with Crosswork Cloud may not go through.</p>
DNS Servers	The IPv4 or IPv6 addresses of the DNS servers you plan to use. If you want to enter multiple DNS servers, separate them with spaces. These should be the same DNS servers you use to resolve host names across your network.
DNS Search Domain	The search domain you want to use with the DNS servers (for example, cisco.com). You can only have one search domain.
(optional) Proxy Server	<p>URL of an optional management network proxy server.</p> <p>If your environment requires an HTTP or HTTPS proxy in order to access URLs on the public Internet, you must configure a proxy server for the Cisco Crosswork Data Gateway to successfully connect to the Crosswork Cloud service.</p>
(optional) Syslog Server	Hostname, IPv4, or IPv6 address of an optional syslog server.
(optional) Auditd Server	Hostname, IPv4, or IPv6 address of an optional Auditd server.



**Important** With these requirements, additional settings that must be configured to install Crosswork Data Gateway on Amazon EC2. For information on the EC2 requirements, see the Section: [Amazon EC2 Settings](#) in [Cisco Crosswork Data Gateway 4.5 Installation and Configuration Guide for Cloud Applications](#).

## Product Documentation

The following table lists the guides provided for Cisco Crosswork Data Gateway for Cloud applications.

**Table 4: Crosswork Data Gateway for Cloud applications Documentation**

Document Title	What is included
Cisco Crosswork Data Gateway 4.5 Release Notes for Cloud Applications	This document.  Provides an overview of the product, compatibility information, and important information that should be considered before using the product.
<a href="#">Cisco Crosswork Data Gateway 4.5 Installation and Configuration Guide for Cloud Applications</a>	<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Installation prerequisites</li> <li>• Installation instructions</li> <li>• Upgrade instructions</li> <li>• Uninstalling Crosswork Data Gateway</li> <li>• Configure Crosswork Data Gateway</li> </ul>
API Documentation	Advanced users can extend the Cisco Crosswork functionality using the APIs. API documentation is available on <a href="#">Cisco Devnet</a> .

**Related Product Documentation**

This section provides links to additional related documentation for Cisco Crosswork Data Gateway.

- [Cisco Crosswork Trust Insights](#)

You can access documentation for all Cisco Crosswork products at <https://www.cisco.com/c/en/us/support/cloud-systems-management/crosswork-network-automation/tsd-products-support-series-home.html>.

## Security

Cisco takes great strides to ensure that all our products conform to the latest industry recommendations. We firmly believe that security is an end-to-end commitment and are here to help secure your entire environment. Please work with your Cisco account team to review the security profile of your network.

For details on how we validate our products, see [Cisco Secure Products and Solutions](#) and [Cisco Security Advisories](#).

If you have questions or concerns regarding the security of any Cisco products, please open a case with the Cisco Customer Experience team and include details about the tool being used and any vulnerabilities it reports.

## Accessibility Features

For a list of accessibility features in Cisco Crosswork Network Controller, visit <https://www.cisco.com/c/en/us/about/accessibility/voluntary-product-accessibility-templates.html> (VPAT) website, or contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

All product documents except for some images, graphics, and charts are accessible. If you would like to receive the product documentation in audio format, braille, or large print, contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

## Support and Downloads

The Cisco Support and Downloads website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies.

Access to most tools on the Cisco Support and Downloads website requires a Cisco.com user ID and password.

For more information, see <https://www.cisco.com/c/en/us/support/index.html>.

## Obtain Additional Information

Information about Cisco products, services, technologies, and networking solutions is available from various online sources.

- Sign up for Cisco email newsletters and other communications at:

<https://www.cisco.com/offer/subscribe>

- Visit the Cisco Customer Experience website for the latest technical, advanced, and remote services to increase the operational reliability of your network. Go to:

[https://www.cisco.com/c/m/en\\_us/customer-experience](https://www.cisco.com/c/m/en_us/customer-experience)

- Obtain general networking, training, and certification titles from Cisco Press publishers at:

<http://www.ciscopress.com>

