Overview

This section contains the following topics:

Overview of Cisco Crosswork Change Automation and Health Insights

Cisco Crosswork Network Automation is a microservices-based platform that brings together streaming telemetry, big data and application programming interfaces (APIs) to redefine service provider network operations.

Cisco Crosswork Network Automation enables multiple use cases, including those targeted by Cisco Crosswork Change Automation and Health Insights:

- Continuous real-time monitoring of key performance indicators (KPIs)

- Routinizing scheduled network maintenance and network reconfiguration tasks

- Linking optimization and remediation playbooks to KPIs in order to streamline response to network events

Begining with release 3.1 theThe data collection functionality has been separated out into its own VM and software package called Cisco Crosswork Data Gateway. Cisco Crosswork Data Gateway gathers all the information from the monitored devices and forwards it to Cisco Crosswork Change Automation and Health Insights for analysis and processing. Cisco Crosswork Change Automation and Health Insights can then be used by the operator to manage the network or respond to changes in the network. Apart from Cisco Crosswork Change Automation and Health Insights, Cisco Crosswork Data Gateway can also be used for external data collection integration. Cisco Crosswork Change Automation and Health Insights uses Cisco Network Services Orchestrator (Cisco NSO) as the default provider to manage the devices according to their expected functions, including configuring any required model-driven telemetry (MDT) sensor paths for data collection. Cisco NSO is vital in supplying device management and configuration-maintenance services

This guide explains the installation process to set up both Cisco Crosswork Change Automation and Health Insights and Cisco Crosswork Data Gateway for use. For information on how to use Cisco Crosswork Change Automation and Health Insights, refer to the *Cisco Crosswork Change Automation and Health Insights User Guide*.

For more information about the Cisco Crosswork Network Automation platform and Cisco Crosswork Change Automation and Health Insights, see the Cisco Crosswork Network Automation Product page on Cisco.com.

Audience

This guide is for experienced network administrators who install Cisco Crosswork Change Automation and Health Insights and Cisco Crosswork Data Gateway in their network. This guide assumes that you are familiar with the following:

- Linux system administration

- Routing and switching terminology and concepts

- Deploying OVF templates using VMware vCenter or OVF Tool

Note Unless otherwise noted, all commands and examples in this guide use IPv4 address formatting.