Preface

This section contains the following topics:

Overview of Cisco Crosswork Change Automation and Health Insights

Cisco Crosswork Change Automation and Health Insights is part of the Cisco Crosswork Network Automation suite of products. Cisco Crosswork Network Automation retrieves real-time information from the network, analyzes the data, and uses APIs to apply network changes. The Cisco Crosswork Network Automation platform brings together streaming telemetry and model-driven application programming interfaces (APIs) to redefine service provider network operations.

Cisco Crosswork Network Automation enables service providers to quickly deploy intent-driven, closed-loop operations. The platform provides a ready-to-use solution supporting the following use cases:

- Monitor Key Performance Indicators (KPIs) and notify of any anomalies.
- Intergration with other Crosswork products such as the Cisco Crosswork Situation Manager.
- Prepare network changes triggered by changes in KPIs and roll out these changes.
- Automate change-impact and remediation.

The data collection functionality is carried out by Cisco Crosswork Data Gateway, a software package that is separated out into its own Virtual Machine (VM). Cisco Crosswork Data Gateway gathers all the information from the managed devices and forwards it to Cisco Crosswork Change Automation and Health Insights for analysis and processing. The operator can then use Cisco Crosswork Change Automation and Health Insights 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 configure the devices according to their expected functions, including configuring model-driven telemetry (MDT) sensor paths, if any, for data collection. Cisco NSO is vital in supplying device management and configuration-maintenance services.

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 the OVF tool

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