Monitoring Dell EMC S Series Switch

eG Innovations Product Documentation

eG
Total Performance Visibility

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Chapter 1: Introduction

The Dell EMC S Series switch empowers organizations to deploy workloads and applications designed for the open networking era. These switches supports the open source Open Network Install Environment (ONIE) for zero-touch installation of alternate network operating systems including feature-rich Dell Networking OS.

Dell EMC S Series is ultra-low latency 1/10G BASE-T to 40GbE Top of Rack (TOR) Switch built for applications in high-performance data center and computing environments. Leveraging a non-blocking switching architecture, the S Series switch delivers line-rate L2 and L3 forwarding capacity with ultra-low-latency to maximize network performance. This switch is the only switch in the industry that provides customers an unbiased approach to Network Virtualization by supporting both network-centric virtualization method (VRF-lite) and Hypervisor centric virtualization method (VXLAN).

If these switches fail, the business-critical services might become inaccessible to end-users, thus causing the business to lose revenue and reputation. By periodically monitoring these switches for faults, and by proactively resolving the issues that surface, administrators can ensure that users receive continued connectivity to the services of interest.

Any issues with the switch could be the possible source of critical problems like abnormal temperature, high resource utilization, or unauthorized user access! To avoid such issues, the performance of the Dell EMC S Series switch has to be monitored 24 *7. The eG Enterprise Suite helps network administrators to continuously monitor the Dell EMC S Series switches in the target environment.

Chapter 2: How to Monitor Dell EMC S Series Switch Using eG Enterprise ?

eG Enterprise monitors the Dell EMC S Series Switch using a single eG external agent on any remote host in the environment. This agent is capable of monitoring the performance of the switch in the following ways:

- By polling the SNMP MIB of the switch;

- By connecting to the switch via SSH and running CLI commands;

To enable the eG agent to use the aforesaid methodologies, a set of pre-requisites should be fulfilled. These requirements have been discussed in the following section.

2.1 Pre-requisites for Monitoring the Dell EMC S Series Switch

To enable the eG agent to collect performance metrics from a Dell EMC S Series Switch, the following pre-requisites should be fulfilled:

- The Dell EMC S-Series Switch should be SNMP-enabled.

- The eG agent should be able to access the target switch over the network.

- The eG agent should be able to communicate with the target switch via SSH. For this, specify the SSH port (default port: 22) in the test configuration page and ensure that the SSH port is opened on the firewall (if any) between the agent and the target switch.

- Configure the credentials of a user who can access the target switch via the SSH port. This can be achieved when configuring the tests using the eG admin interface.

Once the above-said pre-requisites are fulfilled, manage the Dell EMC S Series Switch component using eG administrative interface. The steps for achieving this are discussed in the Section **2.2**.

2.2 Managing the Dell EMC S Series Switch

The Dell EMC S Series Switch cannot be automatically discovered by eG Enterprise. This implies that you will have to manually add the Dell EMC S Series Switch into the eG Enterprise system to manage it. Follow the steps below to achieve the same:

1. Login to the eG administrative interface.

2. Follow the Components -> Add/Modify menu sequence in the **Infrastructure** tile of the **Admin** menu.

3. In the **COMPONENTS** page that appears, select *Dell EMC S Series Switch* from the **Component type** drop-down and then click the **Add New Component** button.

Figure 2.1: Adding a Dell EMC S Series Switch

4. Specify the **Host IP/Name** and the **Nick name** of the switch in 2.2. Then, click the **Add** button to add the switch for monitoring.

2.3 Configuring the tests

1. When you attempt to sign out, a list of unconfigured tests will appear as shown in Figure 2.2.

Figure 2.2: List of unconfigured tests to be configured for the Dell EMC S Series Switch

2. Click on the tests to configure them. To know how to configure these tests, refer to the **Monitoring the Dell EMC S Series Switch** chapter.

3. Finally, signout of the eG administrative interface.

About eG Innovations

eG Innovations provides intelligent performance management solutions that automate and dramatically accelerate the discovery, diagnosis, and resolution of IT performance issues in on-premises, cloud and hybrid environments. Where traditional monitoring tools often fail to provide insight into the performance drivers of business services and user experience, eG Innovations provides total performance visibility across every layer and every tier of the IT infrastructure that supports the business service chain. From desktops to applications, from servers to network and storage, from virtualization to cloud, eG Innovations helps companies proactively discover, instantly diagnose, and rapidly resolve even the most challenging performance and user experience issues.

eG Innovations is dedicated to helping businesses across the globe transform IT service delivery into a competitive advantage and a center for productivity, growth and profit. Many of the world's largest businesses use eG Enterprise to enhance IT service performance, increase operational efficiency, ensure IT effectiveness and deliver on the ROI promise of transformational IT investments across physical, virtual and cloud environments.

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