Troubleshooting Platform and Software Requirements

This chapter includes troubleshooting for platform and software requirements that are associated with Cisco Dynamic Fabric Automation (DFA).

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Troubleshooting Platform and Software Requirements for the Cisco Nexus 6000 Series Switches

This section describes troubleshooting procedures for various issues that involve platform and software requirements for Cisco Nexus 6000 Series switches that are associated with a Cisco Dynamic Fabric Automation deployment.

Symptom	Cause	Resolution
Layer 3 forwarding is not functioning.	On a Cisco Nexus 6000 Series switch, Layer 3 forwarding does not work without the LAN base license.	Ensure that you have each of the following licenses installed: • ENTERPRISE_PKG • ENHANCED_LAYER2_PKG • LAN_BASE_SERVICES_PKG • LAN_ENTERPRISE_SERVICES_PKG

Symptom	Cause	Resolution
The Border Gateway Protocol (BGP) is not functioning.	On the Cisco Nexus 6000 Series switch, an Enterprise License is required to enable BGP.	Ensure that you have each of the following licenses installed: • ENTERPRISE_PKG • ENHANCED_LAYER2_PKG • LAN_BASE_SERVICES_PKG • LAN_ENTERPRISE_SERVICES_PKG
Performance Monitoring and Configuration Archive is not functioning on a device.	A Cisco Prime Data Center Network Manager (DCNM) license is required on each device for Performance Monitoring and Configuration Archive to function. Demo licenses will not work. **Note** No special licensing is required for other Cisco Dynamic Fabric Automation (DFA) functions within Cisco Prime DCNM.	Access a license at http://www.cisco.com/go/license . **Note** If you installed Cisco DCNM using the DCNM OVA installation process, these licenses are included as part of that installation. You can obtain a demo license using the DCNM web interface under licensing.

Troubleshooting Platform and Software Requirements for Cisco Nexus 7000 Series Switches

This section describes troubleshooting procedures for various issues that involve platform and software requirements for the Cisco Nexus 7000 Series switches that are associated with a Cisco Dynamic Fabric Automation deployment.

Symptom	Cause	Resolution
A Virtual Private Network (VPN) address family configuration is rejected. **Note** VPN address family configuration is only required if the Cisco Nexus 7000 Series switch is configured as a route reflector.	A Multiprotocol Label Switching (MPLS) license is not installed.	Upgrade the Cisco NX-OS software to Release 6.2(6a). This version eliminates the requirement for an MPLS license.

Symptom	Cause	Resolution
Performance Monitoring and Configuration Archive is not functioning on a device.	A Cisco Prime Data Center Network Manager (DCNM) license is required on each device for Performance Monitoring and Configuration Archive to function. **Note** No special licensing is required for other Cisco Dynamic Fabric Automation (DFA) functions within Cisco Prime DCNM.	Access a license at http://www.cisco.com/go/license . **Note** If you installed Cisco Prime DCNM using the DCNM OVA installation process, these licenses are included as part of the DCNM installation.

Troubleshooting Platform and Software Requirements of the Cisco Nexus 1000V Series Switch

See the following URLs for configuration information about the Cisco Nexus 1000V Series switch for Cisco Dynamic Fabric Automation:

- http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/sw/4_2_1_s_v_2_2_2/DFA/configuration/b_Cisco_Nexus_1000V_DFA_Configuration_Guide_421_SV2_2_2.html
- http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/sw/4_2_1_s_v_2_2_2/VDP/configuration/b_Cisco_Nexus_1000V_VDP_Configuration_Guide_421_SV2_2_2.html

See the following URL for information about troubleshooting the Cisco Nexus 1000V Series switch, including information about the VSI Discovery and Configuration Protocol (VDP):

- http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus1000/sw/4_2_1_s_v_2_2_2/troubleshooting/configuration/guide/n1000v_trouble.html

Troubleshooting OpenStack for Cisco Dynamic Fabric Automation

See the following URL for information about Open Source software used in OpenStack for Cisco DFA:

- http://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/dfa/openstack/opensource/OpenStack_for_Cisco_DFA_1-0_Open_Source_Documentation.pdf

See the following URL for information about the Pre-Built OpenStack for Cisco DFA Images:

- http://www.cisco.com/c/dam/en/us/td/docs/switches/datacenter/dfa/openstack/install/guide/preblt-image.pdf