# Contents

Introduction **Prerequisites Requirements Components Used** Configure Configure the ASA Enable Multi-Context Support on the ASA Configure the User Context on the ASA Configure the Management IP Address for the User Context Configure the Required Bootstrap for the APIC Configure the APIC Configure the Required Bridge Domains **Configure the Required Endpoint Groups** Add the Admin Context as an L4-L7 Device **Configure the Port-Channel Parameters** Add the User Context as an L4-L7 Device Add the NetScaler 1000V as an L4-L7 Device Create the Service Graph Template Deploy the Service Graph Template Verify **Troubleshoot Known Faults** 

# Introduction

This document describes how to configure and deploy a two-node service graph within the Cisco Application Centric Infrastructure (ACI) platform. The two devices that are used in the service graph are a physical Cisco Adaptive Security Appliance (ASA) that runs in *Transparent* mode, and a Citrix NetScaler 1000V Virtual Appliance.

# Prerequisites

# Requirements

Cisco recommends that you have knowledge of these topics before you attempt the configuration that is described in this document:

- Cisco ACI fabrics that consist of two spine switches and two leaf switches
- Cisco Virtual Machine Managed (VMM) domains
- Cisco ASAs

NetScaler 1000V Virtual Appliances

## **Components Used**

The information in this document is based on these hardware and software versions:

- An ACI fabric that consists of two spine switches and two leaf switches that run code Version 1.1(4e) or later, and device package Version 1.2 or later
- A VMM domain that is configured within the ACI for VMWare
- A physical ASA with two connections (one connection to each leaf switch)
- A NetScaler 1000V Virtual Appliance that is deployed in the VMWare vCenter
- A Cisco Application Policy Infrastructure Controller (APIC)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

# Configure

This section describes how to configure the various components that are involved in this deployment.

## **Configure the ASA**

This section describes how to complete the configuration on the ASA.

### **Enable Multi-Context Support on the ASA**

In order to create multiple contexts on the ASA, you must enable the feature. Log in to the ASA and enter this command in *Configuration* mode:

ciscoasa(config) # mode multiple

You are then prompted to reload. Once the device reloads, you can continue to create the *User* context.

**Note**: An *Admin* context must be created before the User contexts. This document does not describe how to create the Admin context, but rather the User context. For more information about how to create the Admin context, refer to the <u>Configuring Multiple Contexts</u> section of the *Cisco ASA Series CLI Configuration Guide, 9.0*.

### Configure the User Context on the ASA

In order to create the User context on the ASA, enter these command from the System context:

ciscoasa/admin# changeto context sys ciscoasa(config)# context jristain <--- This is the name of the desired context Creating context 'jristain'... Done. (5) ciscoasa(config-ctx)# allocate-interface Management0/1

ciscoasa(config-ctx)# config-url disk0:/jristain.cfg <--- "context-name.cfg"
WARNING: Could not fetch the URL disk0:/jristain.cfg
INFO: Creating context with default config</pre>

This configuration creates the context, allocates the management interface for use in this context, and specifies a location for the configuration file. You must now enter this context in order to configure the minimal bootstrap that is required so that the APIC can connect.

### Configure the Management IP Address for the User Context

Once the User context is created, you can change to that context and configure the management IP address on the interface that is allocated. Enter these commands:

```
ciscoasa(config-ctx)# changeto context jristain <---- Drops into the user context
ciscoasa/jristain(config)# interface Management0/1
ciscoasa/jristain(config-if)# ip address 192.168.20.10 255.255.255.128
ciscoasa/jristain(config-if)# nameif management
INFO: Security level for "management" set to 0 by default.
ciscoasa/jristain(config-if)# security-level 100
ciscoasa/jristain(config-if)# exit
ciscoasa/jristain(config)# route management 0.0.0.0 0.0.0.0 192.168.20.1
ciscoasa/jristain(config)# exit
ciscoasa/jristain(config)# exit
```

**Note**: The *nameif* entry must be *management* because this is the expectation of the device package. If the *nameif* entry contains any additional characters, you will see faults in the deployment of the L4-L7 device in the APIC.

#### Configure the Required Bootstrap for the APIC

In order to connect the APIC to the ASA, some minimal configuration is required. This includes the HTTP server and a user account for the APIC. Use this configuration in the User context:

```
ciscoasa/jristain(config)#username <username> password <password>
ciscoasa/jristain(config)#http server enable
ciscoasa/jristain(config)#http 0.0.0.0 0.0.0.0 management
```

**Note**: Enter your desired username and password into the **<username>** and **<password>** areas.

## **Configure the APIC**

This section describes how to complete the configuration on the APIC.

#### **Configure the Required Bridge Domains**

There are three Bridge Domains (BDs) that are required in order to deploy a two-node service graph.

Use this information in order to configure the BD for the external ASA interface (consumer):

- L2 Unknown Unicast Flood
- ARP Flooding Enabled
- The subnet can be configured in order to act as the default gateway for the NetScaler external interface with *Unicast Routing* **Enabled**

Use this information in order to configure the BD that is used in order to connect the two devices:

- L2 Unknown Unicast Flood
- ARP Flooding Enabled
- Unicast Routing Disabled

### **Configure the Required Endpoint Groups**

The service graph requires that two Endpoint Groups (EPGs) be configured: one consumer and one provider. The consumer EPG should use the BD that connects to the external ASA interface. The provider EPG should use a BD that connects to the end-servers.

### Add the Admin Context as an L4-L7 Device

You must add the ASA Admin and User contexts to the APIC. In order to complete this, navigate to **Tenant > L4-L7 Services > L4-L7 Devices**, right-click and select **Create an L4-L7 Device**, and then complete these steps:

- 1. Click the **Managed** check box in the *General* area, if it is not already enabled.
- 2. Enter the device Name.
- 3. Select the Service Type from the drop-down menu.
- 4. Choose the Device Type (PHYSICAL or VIRTUAL).
- 5. Select the *Physical Domain* from the drop-down menu.
- 6. Choose the Mode.
- 7. Select **CISCO-ASA-1.2** from the *Device Package* drop-down menu.
- 8. Select the ASA *Model* from the drop-down menu.
- 9. Choose the *Function Type* (**GoThrough** is *Transparent* mode and **GoTo** is *Routed* mode).
- 10. Choose an APIC to Device Management Connectivity option in the Connectivity area.

- 11. Enter your **Username** and **Password** in the *Credentials* area.
- 12. Enter the IP address of the Admin context into the *Management IP Address* field (along with the *Port*) in the *Device 1* area.
- 13. Create a physical interface, give it a name, choose the *Interface Policy Group* that the ASA uses, and then select **Provider and consumer**.
- 14. Enter the same information that you used for the *Device 1* area into the *Cluster* area. Create two cluster interfaces (one *consumer* and one *provider*) that point to the same portchannel.

Create L4-L7 Devices	S						i
STEP 1 > General					1. General 2. I	Device Conf	iguration
Please select device	package and enter connectivity info	rmation.					
General Managed: Name: Service Type: Device Type: Physical Domain:	ASA-Admin-Ctx Firewall	Device 1 Management IP Address: Device Interfaces:	192.168.10.10 Name port-channel27	Path Node-101-102	Management Port: http 2/Joey-ASA	ns X	+
Function Type:	GoThrough GoTo	Cluster Management IP Address: Cluster Interfaces:	192.168.10.10 Type consumer	Name consumer	Management Port: http Concrete Interfaces Device1/port-channel27	)S X	+
Connectivity APIC to Device Management Connectivity:			provider	provider	Device1/port-channel27		
Credentials Username: Password: Confirm Password:	apic						
					PREVIOUS	NEXT	CANCEL

**Note**: You can finish you use of the wizard at this time. You do not need to configure any of the failover information.

15. Verify that the device is stable and that there are no faults:

CONFICURATION STATE
CONFIGURATION STATE
Configuration Issues:
comgaration issues.
Devices State: stable

#### **Configure the Port-Channel Parameters**

After the device is registered with the fabric, the APIC can push the configuration via the device

parameters. After registration, you must first configure the port-channel that connects the ASA to the leaf switches in a Virtual Port Channel (vPC).

In order to configure the port-channel, navigate to the device that you created and click the **Parameters** tab in the upper corner of the work pane. Click the *pencil* icon in order to modify the parameters:

○	
Features:	BASIC PARAMETERS ALL PARAMETERS
ThreadDatastian	META FOLDER/PARAM KEY
PortChannel	
Misc	
All	

The *Edit Cluster Parameters* window appears. Click **PortChannel** in order to limit the scope of the option. Expand the **Port Channel Member** folder and complete the *Configuration Options*. Here is an explanation of each option:

- Channel Group ID In the Value field, enter the PC ID that you wish to assign to the interfaces on the ASA (1 through 48 are supported).
- *Interface* In the *Value* field, enter the interface on the ASA that you wish to assign to the channel group.

Repeat this process for each interface that you wish to assign:

>			
Features:	BASIC PARAMETERS ALL PARAMETE	RS	
culuico.	META FOLDER/PARAM KEY	FOLDER/PARAM INSTANCE NAME	VALUE
ThreatDetection	- Channel Member	PortChannelMember	
	= Interface	interface	GigabitEthernet0/4
Logging	E Channel Group ID	port_channel_id	27
PortChannel	💳 🔄 Port Channel Member	PortChannelMember2	
Mine	Interface	interface	GigabitEthernet0/5
IMISC	E Channel Group ID	port_channel_id	27
All			

# L4-L7 Devices - ASA-Admin-Ctx

Once complete, you should see a port-channel creation on the ASA in the System context. In order to verify this, access the System context and enter the **show port-channel summary** 

#### command:

ciscoasa# show port-	channel summary	r						
Flags: D - down P - 1	bundled in port	-channel						
I - stand-alone s - a	suspended							
H - Hot-standby (LAC	P only)							
U - in use N - not in	n use, no aggre	egation/nar	neif					
M - not in use, no ag	ggregation due	to minimur	n links not	met				
w - waiting to be age	gregated							
Number of channel-groups in use: 2								
Group Port-channel P	rotocol Span-cl	luster Port	s					
	+	+-						
27 Po27(N)	LACP	No	Gi0/4(P)	Gi0/5(P)				

#### Add the User Context as an L4-L7 Device

You must register the User context as an L4-L7 device in the fabric. Navigate to **Tenant > L4-L7 Services > L4-L7 Devices**, right-click and select **Create an L4-L7 Device**, and then complete these steps:

- 1. Click the **Managed** check box in the *General* area, if it is not already enabled.
- 2. Enter the device Name.
- 3. Select the Service Type from the drop-down menu.
- 4. Choose the Device Type.
- 5. Select the *Physical Domain* from the drop-down menu.
- 6. Choose the Mode.
- 7. Select **CISCO-ASA-1.2** from the *Device Package* drop-down menu.
- 8. Select the ASA *Model* from the drop-down menu.
- 9. Choose an APIC to Device Management Connectivity option in the Connectivity area.
- 10. Choose the Function Type (GoThrough is Transparent mode and GoTo is Routed mode).
- 11. Enter your **Username** and **Password** in the *Credentials* area.
- 12. Enter the IP address of the User context into the *Management IP Address* field (along with the *Port*) in the *Device 1* area.
- 13. Create a physical interface, give it a name, choose the *Interface Policy Group* that the ASA uses, and then select **Provider and consumer**.
- 14. Enter the *Management IP Address* of the Admin context (along with the Port) in the *Cluster* area. Create two cluster interfaces (one *consumer* and one *provider*) that point to the same port-channel.

Create L4-L7 Device: STEP 1 > General	5				1. General 2. Devi	ice Confi	guration
Please select device General Managed: Name: Service Type: Device Type: Physical Domain: Mode:	ASA-jristain-Ctx Firewall Decy-ASA Single Node HA Cluster	rmation. Device 1 Management IP Address: Device Interfaces:	User Ctx IP 192.168.20.10 Name port-channel27	Path Node-101-	Management Port: https 102/Joey-ASA	×	+
Device Package. Model: Function Type:	AS5585-without-10GE	Cluster Management IP Address: Cluster Interfaces:	Admin Ctx IP 192.168.10.10 Type consumer	Name consumer	Management Port: https Concrete Interfaces Device1/port-channel27	×	+
Connectivity APIC to Device Management Connectivity:	● Out-Of-Band ● In-Band		provider	provider	Device1/port-channel27		
Credentials Username: Password: Confirm Password:	apic						
					PREVIOUS	NEXT	CANCEL

**Note**: You can finish you use of the wizard at this time. You do not need to configure any of the failover information.

15. Verify that the device is stable and that there are no faults:



### Add the NetScaler 1000V as an L4-L7 Device

The second node in this configuration example is a NetScaler 1000V. The NetScaler provides load balancing functionality to the connected servers. You must register this device with the APIC as well. Navigate to **Tenant > L4-L7 Services > L4-L7 Devices**, right-click and select **Create an L4-L7 Device**, and then complete these steps:

- 1. Click the **Managed** check box in the *General* area, if it is not already enabled.
- 2. Enter the device Name.
- 3. Select the Service Type from the drop-down menu (NetScaler is an ADC, or Application Delivery Controller).

- 4. Choose the Device Type.
- 5. Select the VMM Domain (if Virtual) from the drop-down menu.
- 6. Choose the Mode.
- 7. Select Cisco-NetScaler1KV-1.0 from the Device Package drop-down menu.
- 8. Select the *Model* from the drop-down menu (Virtual Appliance is the *NetScaler-VPX*)
- 9. Choose an APIC to Device Management Connectivity option in the Connectivity area.
- 10. Enter your **Username** and **Password** in the *Credentials* area.
- 11. Enter the IP address of the Admin context into the *Management IP Address* field (along with the *Port*) in the *Device 1* area. Choose the VM (if Virtual).
- 12. Create an *external* interface in the *Device Interfaces* area, and choose an unused network adapter. **Note**: *Network Adapter 1* is used for management purposes, so do not use it.
- 13. Create an *internal* interface in the *Device Interfaces* area, and choose an unused network adapter.
- 14. Enter the same information that you used for the *Device 1* area into the *Cluster* area. Create two cluster interfaces (one *consumer* and one *provider*).

Create L4-L7 Device	s						i 🕽
STEP 1 > General					1. General 2. De	vice Confi	guration
Please select device	package and enter connectivity info	rmation.					
General Managed: Name:	V NetScaler1000V	Device 1 Management IP Address:	192.168.30.10		Management Port: https		•
Service Type:	ADC 🗸	Device Interfaces:	July Voj Netscalel	۳ <u>۲</u>		×	+
Device Type: VMM Domain: Mode: Device Package: Model:	PHYSICAL VIRTUAL Joey-VC C © Single Node O HA Cluster Cisco-NetScaler1KV-1.0 C NetScaler-VPX		Name external internal	VNIC Network adapter 2 Network adapter 3	Path (Only For Route Peering)		
		Cluster Management IP Address: Cluster Interfaces:	192.168.30.10		Management Port: https	×	+
			Туре	Name	Concrete Interfaces		
Connectivity			consumer	consumer	Device1/external		
APIC to Device Management Connectivity:	<ul> <li>Out-Of-Band</li> <li>In-Band</li> </ul>		provider	provider	Device1/internal		
Credentials Username: Password: Confirm Password:	nsroot						
					PREVIOUS	NEXT	CANCEL

15. Verify that the device is stable and that there are no faults:



#### **Create the Service Graph Template**

Now that the devices are registered, you can create a *Service Graph Template*. Navigate to **Tenant > L4-L7 Services > L4-L7 Service Graph Templates > Create L4-L7**, and complete these steps:

- 1. Enter a name in the Graph Name field.
- 2. Drag-and-drop the devices from the *Device Clusters* area in the order that they should be deployed. Enter a name for each.
- 3. Choose the function *Profile* for each device. For the NetScaler, this example uses **Two-Arm** (or *Inline* mode).

Create L4-L7 Service Graph Template					1 X
Drag device clusters to create graph nodes.					
Device Clusters	Graph Name:	ASA-NS			
◙ ⊞	Graph Type:	Create A New One	Clone	An Existing One	
Joey-Tenant /ASA-Admin-Ctx (Managed Firewall) Joey-Tenant /ASA-jristain-Ctx (Managed Firew	Consumer		C ASA-jristai	PC P NetScaler1	Provider
		Please drag a	device from devices	table and drop it here to create a service node	θ.
	ASA-jristain-Ctx Info Firewall: O Profile: CIS	rmation   Routed   Transpa CO-ASA-1.2/WebPolicyForTrain	nrent	ADC: Two-Arm Profile: Cisco-NetScaler1	© One-Arm KV-1.0/WebInlineVSer ᢏ টে
					SUBMIT CANCEL

#### **Deploy the Service Graph Template**

After the template is created, you can deploy it to the devices. Navigate to **Tenant > L4-L7** Services > L4-L7 Service Graph Templates > Service Graph Template > Apply Service Graph Template.

On the Contract tab, complete these steps:

- 1. Select the consumer EPG from the Consumer EPG / External Network drop-down menu.
- 2. Select the provider EPG from the Provider EPG / External Network drop-down menu.

3. Create a new contract, or choose one that already exists, in the Contract Information area.

TEP 1 > Contract	1. Contract 2. Graph 3. ASA-Jristain-Ctx Parameters 4. NetScaler1000V Parameters
Config A Contract Between EPGs  - EPGs Information Consumer EPG / External Network:loev-Tenant/OSPE/Extern	al
Contract InformationContract:      © Create A New Contract	Choose An Existing Contract Subject
No Filter (Allow All Traffic): 🗹	

PREVIOUS NEXT CANCEL

On the Graph tab, complete these steps:

- 1. Select the BD for the ASA external interface from the BD drop-down menu.
- 2. Select the BD For the ASA internal interface from the BD drop-down menu.
- 3. Select the BD for the NetScaler external interface from the BD drop-down menu.
- 4. Select the BD for the NetScaler internal interface from the BD drop-down menu.

htig A Service Graph	P 2 > Graph		1. Contract	2. Graph		3. ASA-Jristain-Ctx P	arameters	4. NetScale	er1000V Pa	ramete
Image: Straph Template:       joey-Tenant/ASA-NS       Image: Straph Template:       joey-Tenant/ASA-Admin-Ctx (Managed Firew.nk)         Image: Joey-Tenant/NetScaler1000V (Managed Firew.nk)       Image: Straph Template:       joey-Tenant/ASA-NS       Image: Straph Template:         Image: Joey-Tenant/NetScaler1000V (Managed Firew.nk)       Image: Straph Template:       joey-Tenant/NetScaler100V (Managed Firew.nk)       Image: Straph Template:       Image: Straph Template:       Provider         Image: Joey-Tenant/NetScaler1000V (Managed Firew.nk)       Image: Straph Template:       joey-Tenant/NetScaler100V (Managed Firew.nk)       Image: Straph Template:       Image: Straph Template:       Provider Consumer       Image: Straph Template:       Image: Straph Template:       Image: Straph Template:       Provider Consumer       Image: Straph Template:       Image: Strap	fig A Service Graph									
Image: Solution Citx (Managed Firewall)       Consumer       Provider         Image: Solution Citx (Managed Firewall)       Image: Solution Citx (Managed Firewall)       Image: Solution Citx (Managed Firewall)         Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed ADC)         Image: Managed Firewall       Image: Solution Citx (Managed ADC)       Image: Solution Citx (Managed	ice Clusters	Graph Template: Joey-	Tenant/ASA-NS			<u>-</u> ₽				
ASA-jistain-Cix Information Firewali: transparent Profile: WebPolicyForTransparentMode Consumer Connector Type:   General   Route Peering BD: Joey-Tenant/Web-Routed   Provider Connector Type:   General   Route Peering BD: Joey-Tenant/Web-FW-ADC    Provider Connector Type:   General   Route Peering BD: Joey-Tenant/Web-FW-ADC	Joey-Tenant /ASA-Admin-Ctx (Managed Firewall)     Joey-Tenant /ASA-jristain-Ctx (Managed Firewall)     Joey-Tenant /NetScaler1000V (Managed ADC)	External		ASA-jristai	P	C P NetScaler1 NS		[	Provider EPG Web	
Type:		ASA-jristain-Ctx Information — Firewall: trans Profile: Web	sparent PolicyForTransparentM	ode		NetScaler1000V Informa ADC Profile	ation : two-arm : WebInlineVServerF	rofile		
Provider Connector Type:  General BD: Joey-Tenant/Web-FW-ADC BD: Joey-Tenant/Web BD: Joey-Tenant/Web		Type:    Gr BD: Joey Cluster Interface: consi	eneral © -Tenant/Web-Routed umer	Route Peering	e م	Type: BD: Cluster Interface:	General Joey-Tenant/Web- consumer	Route P FW-ADC	eering – C – C	
		Provider Connector Type:	eneral O	Route Peering		Provider Connector – Type:	General	Route P	eering	
Cluster Interface: provider  Cluster Interfac		Cluster Interface: provi	der	,	° P	Cluster Interface:	provider		  ₽	

On the ASA Parameters tab, enter the desired parameters. None of the parameters on this tab are required.

On the NetScaler Parameters tab, enter the NetScaler configuration via the wizard:

Apply L4-L7 Service Grap	h Templa	ate To EPGs				() ×
STEP 4 > NetScaler1000	V Param	eters	1. Contract	2. Graph 3. A	SA-Jristain-Ctx Parameters	4. NetScaler1000V Parameters
config parameters for the s	elected de	evice				
Profile Name:						
Features:	Req	uired Parameters All Parameters				
Basic	F	older/Param		Name	Value	Write Domain
LoadBalancing		E netmask		netmask	255.255.255.0	
TrafficBoling		🔺 🚭 ip		vip1_inline		
<u>Hamoronoy</u>		ipaddress		ipaddress	172.25.31.1	
<u>Network</u>		= netmask		netmask 255.255		
All	Load Balancing Virtual Server			Ibvserver		
		- E ipv46		ipv46 192.168.200.10		
		E name		name server1		
		service group		servicegroup_1		
		bind/unbind servicegroupment	ber to servicegroup	servicegroup_servicegro	upmem	
		ip 🗉		ip	192.168.200.254	
		servicegroupname		servicegroupname	Web-Servers	
	Image: A state of the state	Function Config		Function		
		- 🔤 Load Balancing Virtual Server		server1		
		Service group		Web-Servers		
	RE	D indicators parameters needed to be upda	ted and GREEN indicate	es parameters will be summitted	to the provider EPG.	
						PREVIOUS FINISH CANCEL

# Verify

There is currently no verification procedure available for this configuration.

# Troubleshoot

This section provides information that you can use in order to troubleshoot your configuration.

# **Known Faults**

Here are two known faults that are related to the configurations that are described in this document:

• Script Warning: Either the cable is incorrect or not plugged into the interface connector:



In order to resolve this issue, ensure that the port-channel parameters are configured and that the port-channel is up on the ASA. Refer to the <u>Configure the Port-Channel Parameters</u> section of this document for information about how to verify this.

If the interface is up, but you still see these faults, it is likely due to Cisco bug ID <u>CSCuw56882</u>. This bug is fixed in the *1.2.3 Device Package* support for the 1.2(x) ACI software release. The device packages can be downloaded <u>here</u>.

• Major Script Error: Connection error : 401 Client Error: Unauthorized:

201	5-12-08T21:27:16.948+00:00	uni/ten-[uni/tn-Joey-Tenant]- scriptHandlerState/cDevState-[uni/tn- Joey-Tenant/IDevVip-ASA-jristain- Ctx/cDev-ASA-jristain- Ctx_Device_1]/devHealth-[uni/tn- Joey-Tenant/IDevVip-ASA-jristain- Ctx/cDev-ASA-jristain-Ctx_Device_1]	Soaking	Device configuration resulted in *Major script error : Connection error : 401 Client Error: Unauthorized* for ASA-jristain-Ctx_Device_1 on device ASA-jristain-Ctx_Device_1 in cluster ASA-jristain-Ctx in tenant Joey-Tenant
201	5-12-08T21:27:22.985+00:00	uni/ten-[uni/tn-Joey-Tenant]- scriptHandlerState/cDevState-[uni/tn- Joey-Tenant/IDevVip-ASA-jristain- Ctx/cDev-ASA-jristain-Ctx_Device_1]	Soaking	Device validate operation for device ASA-jristain-Ctx_Device_1 in cluster ASA-jristain-Ctx in tenant Joey-Tenant failed
F	ault Properties			i 🗙
				GENERAL HISTORY
	⊖±			
	PROPERTIES			
	Severity: m	ajor		
	Last Transition: 2	015-12-08T21:27:16.948+00:00		
	Lifecycle: Se	oaking		
	Affected Object: [ jr C	년uni/ten-[uni/tn-Joey-Tenant]-s istain-Ctx/cDev-ASA-jristain-Ctx_ tx/cDev-ASA-jristain-Ctx_Device_	criptHandlerStat _Device_1]/devH _1]	e/cDevState-[uni/tn-Joey-Tenant/lDevVip-ASA- lealth-[uni/tn-Joey-Tenant/lDevVip-ASA-jristain-
	Description: D U jr	evice configuration resulted in *M nauthorized* for ASA-jristain-Ctx istain-Ctx in tenant Joey-Tenant	ajor script error _Device_1 on de	: Connection error : 401 Client Error: vice ASA-jristain-Ctx_Device_1 in cluster ASA-
	Explanation:			
	This fault occurs w	hen the L4-L7 service returns a major	fault	
	Recommended A	ction:		
	If you see this fault	t, please refer to L4-L7 device vendor d	locumentation.	
	Details			×

In order to resolve this issue, ensure that the proper credentials are provisioned on the devices and configured correctly in the APIC.