

AOS-CX & IP-SLA POC

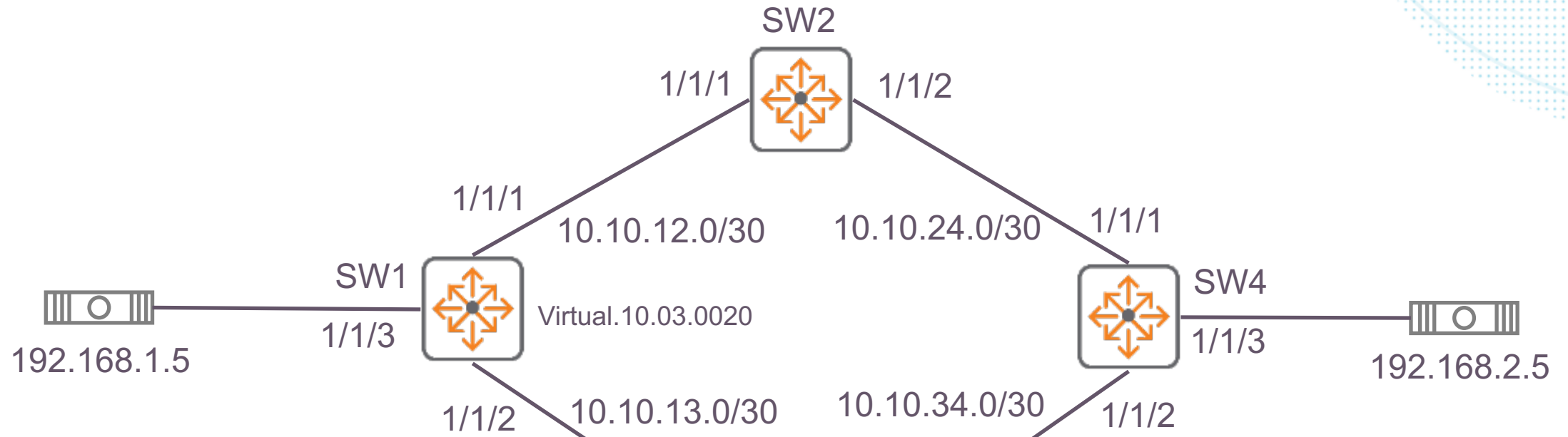
ADOLFO BOLIVAR
MAY 2020



Customer Requirements

- Two path:, Active – Standby links
- NQA or IP-SLA must be used to select the path.
 - Switch detects failure -> Change to standby link automatically.
 - Automatic fallback to ppal link (when available).
- Dynamic routing cannot be used.

Topology



vrf mgmt

SW1: 172.16.0.101

SW2: 172.16.0.102

SW3: 172.16.0.103

SW4: 172.16.0.104

PC1: 172.16.0.108

PC2: 172.16.0.109

SW1 configuration

```
clock timezone america/bogota
!
logging 172.16.0.80 severity debug vrf mgmt
ssh server vrf mgmt
!
```

Syslog server

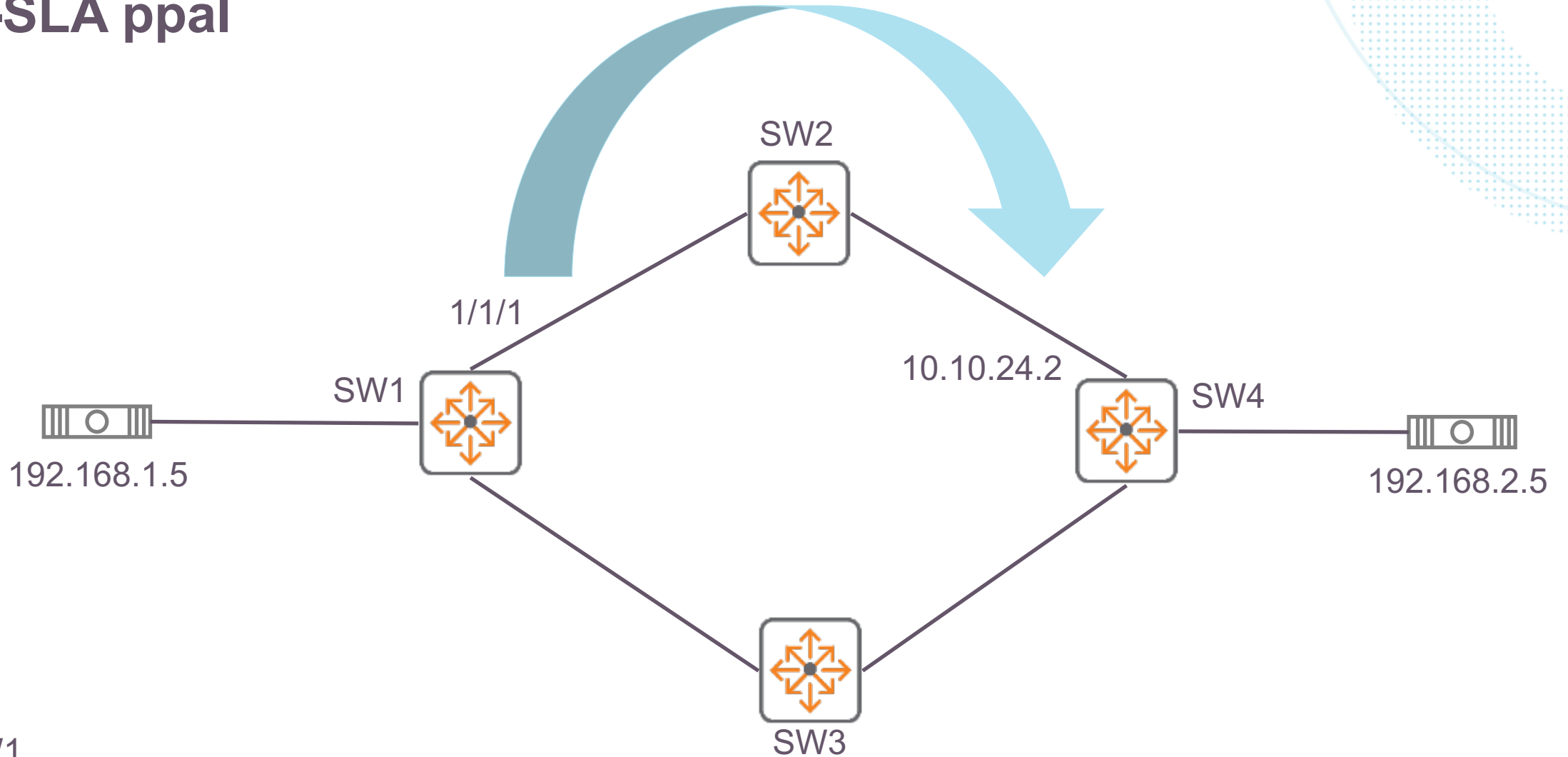
```
vlan 1
interface mgmt
  no shutdown
  ip static 172.16.0.101/24
  default-gateway 172.16.0.11
interface 1/1/1
  no shutdown
  ip address 10.10.12.1/30
interface 1/1/2
  no shutdown
  ip address 10.10.13.1/30
interface 1/1/3
  no shutdown
  ip address 192.168.1.1/24
ip route 10.10.24.0/30 10.10.12.2
ip route 10.10.34.0/30 10.10.13.2
ip route 192.168.2.0/24 10.10.13.2 distance 10
ip route 192.168.2.0/24 10.10.12.2
ip dns server-address 8.8.8.8 vrf mgmt
https-server rest access-mode read-write
https-server vrf mgmt
```

WAN - ppal

WAN - backup

backup route
Main route

IP-SLA ppal



SW1
ip-sla ppal

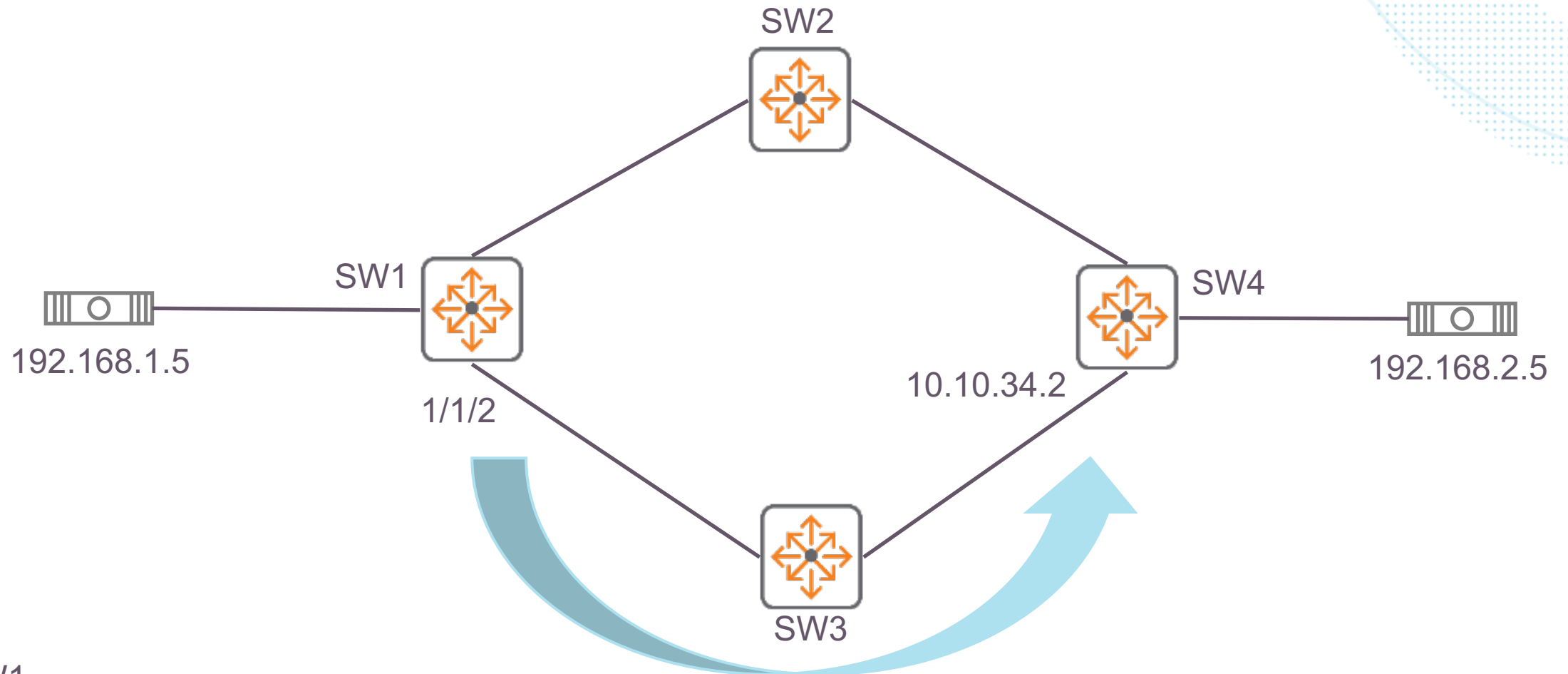
icmp-echo 10.10.24.2 source 1/1/1 payload-size 400 probe-interval 10
start-test

Test connectivity between PC1 and PC2 – ppal link

```
PC1# traceroute 192.168.2.5 vrf default
traceroute to 192.168.2.5 (192.168.2.5), 1 hops min, 30 hops max, 3 sec. timeout, 3 probes
 1  192.168.1.1  1.403ms  1.235ms  1.021ms  → SW1
 2  10.10.12.2  2.357ms  1.822ms  1.819ms  → SW2
 3  10.10.24.2  2.521ms  2.146ms  2.161ms  → SW4
 4  192.168.2.5  2.976ms  2.996ms  2.818ms
PC1#
PC1# ping 192.168.2.5
PING 192.168.2.5 (192.168.2.5) 100(128) bytes of data.
108 bytes from 192.168.2.5: icmp_seq=1 ttl=61 time=3.46 ms
108 bytes from 192.168.2.5: icmp_seq=2 ttl=61 time=2.73 ms
108 bytes from 192.168.2.5: icmp_seq=3 ttl=61 time=2.98 ms
108 bytes from 192.168.2.5: icmp_seq=4 ttl=61 time=3.79 ms
108 bytes from 192.168.2.5: icmp_seq=5 ttl=61 time=3.26 ms

--- 192.168.2.5 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4088ms
rtt min/avg/max/mdev = 2.732/3.248/3.792/0.369 ms
PC1#
```

IP-SLA backup



SW1

ip-sla backup

icmp-echo 10.10.34.2 source 1/1/2 payload-size 400 probe-interval 10
start-test

Test connectivity between PC1 and PC2 – backup link

```
SW1# conf t
SW1(config)# no ip route 192.168.2.0/24 10.10.12.2
```

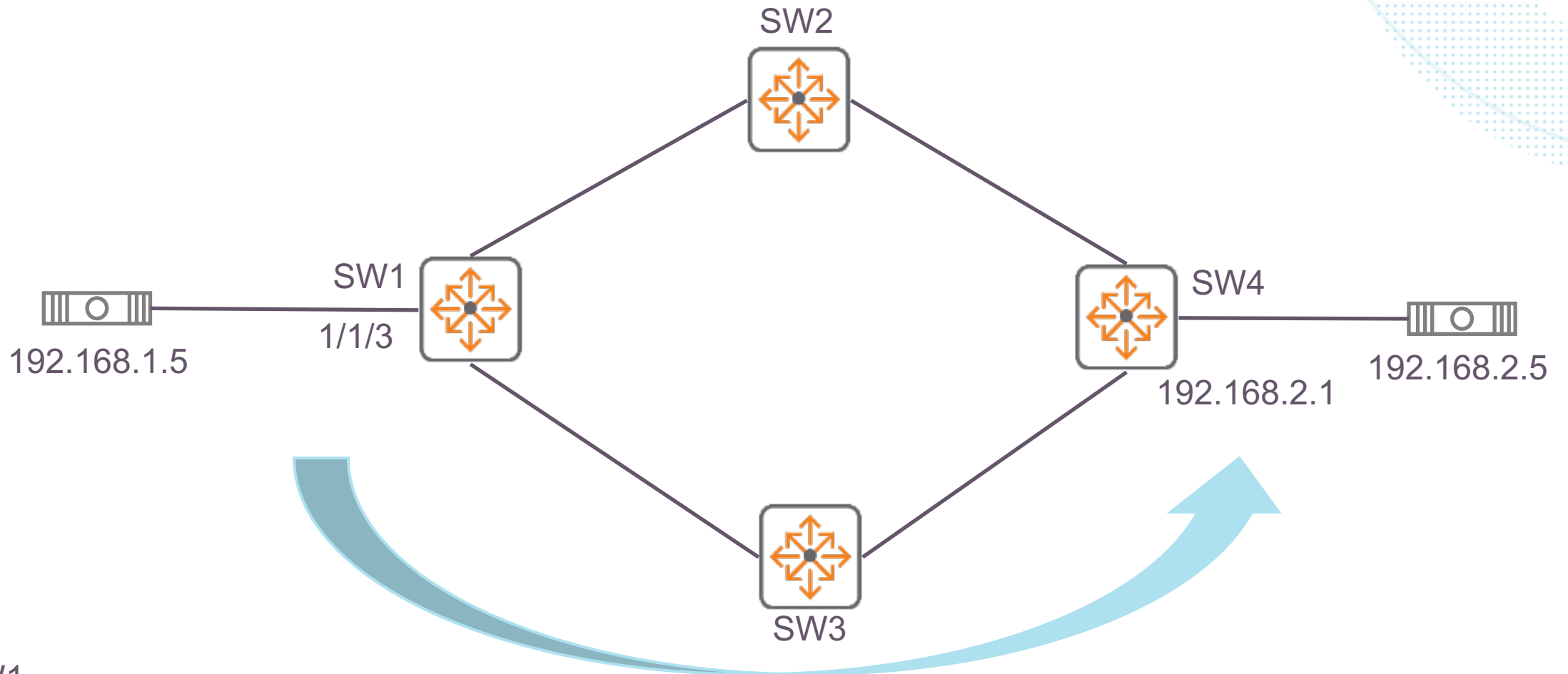
Manual config change to backup link

```
SW4# conf t
SW4(config)# no ip route 192.168.1.0/24 10.10.24.1
```

```
PC1# traceroute 192.168.2.5
traceroute to 192.168.2.5 (192.168.2.5), 1 hops min, 30 hops max, 3 sec. timeout, 3 probes
 1  192.168.1.1  1.766ms  1.225ms  1.313ms
 2  10.10.13.2  3.202ms  2.508ms  2.194ms
 3  10.10.34.2  3.228ms  2.652ms  2.833ms
 4  192.168.2.5  3.944ms  3.735ms  3.431ms
PC1#
PC1# ping 192.168.2.5
PING 192.168.2.5 (192.168.2.5) 100(128) bytes of data.
108 bytes from 192.168.2.5: icmp_seq=1 ttl=61 time=3.78 ms
108 bytes from 192.168.2.5: icmp_seq=2 ttl=61 time=3.97 ms
108 bytes from 192.168.2.5: icmp_seq=3 ttl=61 time=3.90 ms
108 bytes from 192.168.2.5: icmp_seq=4 ttl=61 time=3.46 ms
108 bytes from 192.168.2.5: icmp_seq=5 ttl=61 time=3.64 ms

--- 192.168.2.5 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 3.465/3.752/3.970/0.189 ms
PC1#
```


IP-SLA LAN2LAN




SW1
ip-sla LAN2LAN

icmp-echo 192.168.2.1 source 1/1/3 payload-size 400 probe-interval 10
start-test

IP-SLA Guidelines – AOS CX v10.4

- “ArubaOS-CX supports only SLA configuration through CLI and thresholds can be configured using NAE agents using WebUI/REST.”
- “ArubaOS-CX supports only forever test.”
- “NAE agents must be triggered for each IP-SLA test on every switch.”
- “Predefined actions are action functions that are built in to the Aruba Network Analytics Engine framework. These functions enable the agents of a script to:
 - Execute CLI commands in the ArubaOS-CX network operating system ().
 - Send messages to the system log.”

Install the connectivity_monitor script

[Analytics](#) > [Scripts](#) > Aruba Solution Exchange

Overview

Analytics

Interfaces

VLANs

LAGs

Users

VSX

ARUBA SOLUTION EXCHANGE

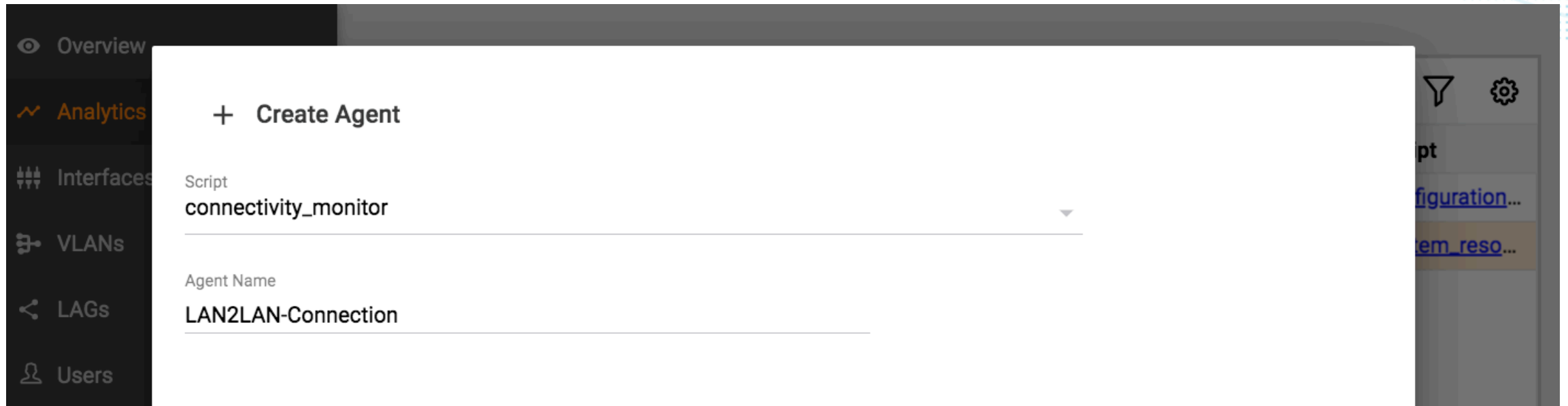
INSTALL

DOWNLOAD

VIEW SCRIPT

Installed	Name	Tags	Last Modified
<input type="checkbox"/>	configuration_change_tftp.1.0	8320, 8325, nae-aruba-certified, 8400x	07/30/19 05:23:54
<input type="checkbox"/>	connectivity_monitor.1.1	arubaos-cx-min-10.02, 8320, 8325, nae-aruba-certified	08/08/19 21:20:06
<input type="checkbox"/>	copp.3.1	nae-aruba-certified, 8320, 8325, 6400, 6405, 6410, 6300, 6300m, 6300f, 8400x	11/21/19 18:47:40
<input type="checkbox"/>	daemon_resource_monitor.4.0	nae, nae-aruba-certified, 8320, 8325, arubaos-cx-min-10.04, 6300, 6300f, 6300m, 6400, 6405, 6410, 8400x	11/21/19 18:53:26
<input type="checkbox"/>	fan_monitor.2.0-8320	8320, 8325, nae-aruba-certified	08/08/19 21:17:43
<input type="checkbox"/>	fan_status_transition_monitor.1.0	nae-aruba-certified, 8320, 8325, 6300, 6300f, 6300m, 6400, 6405, 6410, 8400x	11/21/19 18:55:39

LAN2LAN IP-SLA Agent



The screenshot shows a network management interface with a dark sidebar on the left containing menu items: Overview, Analytics, Interfaces, VLANs, LAGs, and Users. A modal dialog titled '+ Create Agent' is open in the center. It has two input fields: 'Script' with the value 'connectivity_monitor' and a dropdown arrow, and 'Agent Name' with the value 'LAN2LAN-Connection'. On the right side of the interface, there are icons for a filter and settings, and a list of links including 'pt', 'figuration...', and 'em_reso...'.

+ Create Agent

Script
connectivity_monitor

Agent Name
LAN2LAN-Connection

LAN2LAN IP-SLA Agent

Parameters

Type	Name	Description	More Info	Value
INTEGER	connectivity_check_rate	? Connectivity Check Rate (in minutes)	Default: 1	1
STRING	ipsla_session_name	? IP-SLA Session Name	Default:	LAN2LAN



Save running config to startup

CREATE

CANCEL

WAN-Backup IP-SLA Agent

+ Create Agent

Script
connectivity_monitor

Agent Name
WAN-BACKUP-Connection

WAN-Backup IP-SLA Agent

Parameters

Type	Name	Description	More Info	Value
INTEGER	connectivity_check_rate	? Connectivity Check Rate (in minutes)	Default: 1	1
STRING	ipsla_session_name	? IP-SLA Session Name	Default:	backup




Save running config to startup

CREATE

CANCEL

Download the conectivity_monitor script

[Analytics](#) > [Scripts](#) > Aruba Solution Exchange

00050

admin

Overview

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ARUBA SOLUTION EXCHANGE

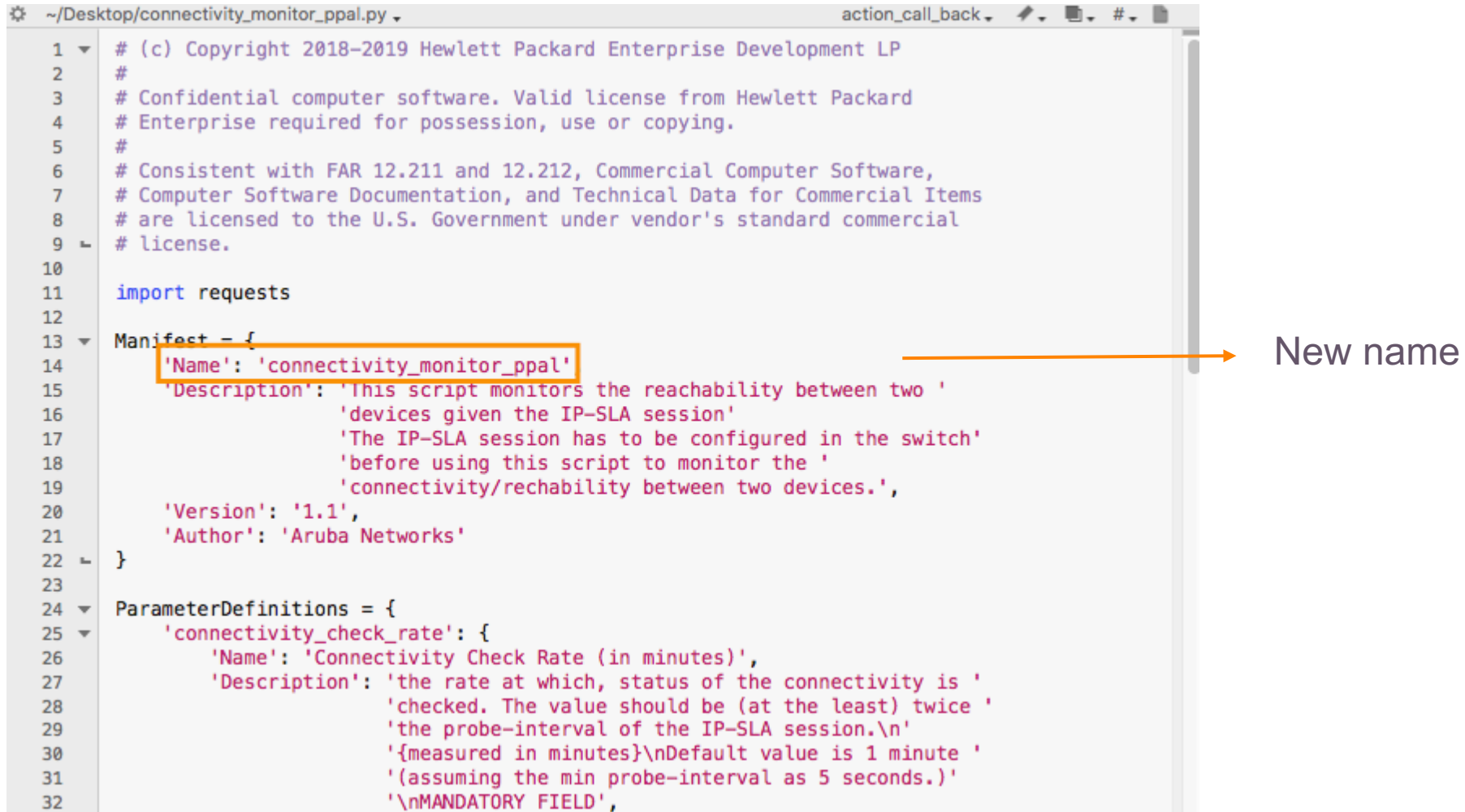
INSTALL

DOWNLOAD

VIEW SCRIPT

Installed	Name	Tags	Last Modified
<input type="checkbox"/>	configuration_change_tftp.1.0	8320, 8325, nae-aruba-certified, 8400x	07/30/19 05:23:54
<input type="checkbox"/>	connectivity_monitor.1.1	arubaos-cx-min-10.02, 8320, 8325, nae-aruba-certified	08/08/19 21:20:06
<input type="checkbox"/>	copp.3.1	nae-aruba-certified, 8320, 8325, 6400, 6405, 6410, 6300, 6300m, 6300f, 8400x	11/21/19 18:47:40
<input type="checkbox"/>	daemon_resource_monitor.4.0	nae, nae-aruba-certified, 8320, 8325, arubaos-cx-min-10.04, 6300, 6300f, 6300m, 6400, 6405, 6410, 8400x	11/21/19 18:53:26
<input type="checkbox"/>	fan_monitor.2.0-8320	8320, 8325, nae-aruba-certified	08/08/19 21:17:43
<input type="checkbox"/>	fan_status_transition_monitor.1.0	nae-aruba-certified, 8320, 8325, 6300, 6300f, 6300m, 6400, 6405, 6410, 8400x	11/21/19 18:55:39
<input type="checkbox"/>	fans_rpm_monitor.1.0	8320, 8325, nae-aruba-certified, 8400x	07/30/19 05:20:52

Edit the connectivity_monitor script, rename it



```
~/Desktop/connectivity_monitor_ppal.py  action_call_back
1  # (c) Copyright 2018-2019 Hewlett Packard Enterprise Development LP
2  #
3  # Confidential computer software. Valid license from Hewlett Packard
4  # Enterprise required for possession, use or copying.
5  #
6  # Consistent with FAR 12.211 and 12.212, Commercial Computer Software,
7  # Computer Software Documentation, and Technical Data for Commercial Items
8  # are licensed to the U.S. Government under vendor's standard commercial
9  # license.
10
11  import requests
12
13  Manifest = {
14      'Name': 'connectivity_monitor_ppal'
15      'Description': 'This script monitors the reachability between two '
16                    'devices given the IP-SLA session'
17                    'The IP-SLA session has to be configured in the switch'
18                    'before using this script to monitor the '
19                    'connectivity/rechability between two devices.',
20      'Version': '1.1',
21      'Author': 'Aruba Networks'
22  }
23
24  ParameterDefinitions = {
25      'connectivity_check_rate': {
26          'Name': 'Connectivity Check Rate (in minutes)',
27          'Description': 'the rate at which, status of the connectivity is '
28                        'checked. The value should be (at the least) twice '
29                        'the probe-interval of the IP-SLA session.\n'
30                        '{measured in minutes}\nDefault value is 1 minute '
31                        '(assuming the min probe-interval as 5 seconds.)'
32                        '\nMANDATORY FIELD',
```

New name


Edit the connectivity_monitor script, save it

```
~/Desktop/connectivity_monitor_ppal.py  action_call_back
114
115 def remove_alert(self):
116     alert_level = self.get_alert_level()
117     if (alert_level == AlertLevel.CRITICAL) or \
118         (alert_level == AlertLevel.MINOR):
119         self.remove_alert_level()
120         #Action No 1
121         ActionCLI("config\nip route 192.168.2.0/24 10.10.12.2\nexit")
122         ActionSyslog('Monitored remote IP is reachable, received '
123                     'response Rx-packets for the IP-SLA '
124                     'session {}'.format(
125                         self.params['ipsla_session_name'].value))
126
127 def error(self, message):
128     err_msg = ('IP SLA Agent Source={}. '
129               'Error: {}'.format(
130                   self.params['ipsla_session_name'].value,
131                   message)
132               )
133     raise Exception(err_msg)
134
135 def create_cli_syslog(self):
136     session_name = self.params['ipsla_session_name'].value
137     ActionCLI('show ip-sla ' + session_name + ' results')
138     ActionSyslog('Monitored remote IP is not reachable, response '
139                 'Rx-packets were not received for the IP-SLA '
140                 'session {}'.format(
141                     self.params['ipsla_session_name'].value))
142
143 def create_alert(self):
144     alert_level = self.get_alert_level()
145     if alert_level is None:
146         self.set_alert_level(AlertLevel.MINOR)
147         self.create_cli_syslog()
148     elif alert_level == AlertLevel.MINOR:
149         self.set_alert_level(AlertLevel.CRITICAL)
150         self.create_cli_syslog()
151         #Action No 2
152         ActionCLI("config\nno ip route 192.168.2.0/24 10.10.12.2\nexit")
153
154 def action_call_back(self, event):
155     try:
156         uri = '/rest/v1/system/ipsla_sources/' + \
```

When alert is removed, enter the static IP route

When alert changes to critical, remove the static IP route

Click to upload a script

 **Analytics** > Scripts

0 0 0 4 0

admin

Overview

Analytics






Interfaces


VLANs

LAGs

Users

VSX

  + CREATE  ASE  

Status	System Created	Name	Version	# Agents	Author
		configuration_change_service...	1.1	1	Aruba Netw
		connectivity_monitor	1.1	2	Aruba Netw
		system_resource_monitor	1.2	1	Aruba Netw

Select the script

The screenshot shows a web-based network management interface with a dark sidebar on the left. The sidebar contains the following menu items: Overview, Analytics (highlighted in orange), Interfaces, VLANs, LAGs, Users, VSX, System, and Diagnostics. A modal dialog titled 'Upload Script' is centered on the screen. Inside the dialog, the text 'Specify a script file to upload' is displayed above a dashed rectangular box. Within this box, the text 'connectivity_monitor_ppal.py - 7.63 KB' is shown, and below it is a 'BROWSE' button with a folder icon. At the bottom right of the dialog, there are two buttons: 'NEXT' (a dark blue button with white text) and 'CANCEL' (a light gray button with dark text). An orange arrow points to the 'NEXT' button. In the background, a table with columns 'Agents' and 'Author' is partially visible, showing three rows of data with 'Aruba Netw' as the author for all entries.

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Upload Script

Specify a script file to upload

connectivity_monitor_ppal.py - 7.63 KB

BROWSE

NEXT CANCEL

Agents	Author
	Aruba Netw
	Aruba Netw
	Aruba Netw

Click on “upload”

Upload Script

Script Details

✓	Script Name	connectivity_monitor_ppal
✓	Version	1.1
✓	Author	Aruba Networks

☒ Save running config to startup

UPLOAD **BACK**

Overview

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Upload Script

✓

Success

connectivity_monitor_ppal has been successfully uploaded.
The result of the operation and any other changes on the device have been saved onto the startup configuration.

CLOSE

☒ Save running config to startup

UPLOAD

BACK

BASE

Agents

Author

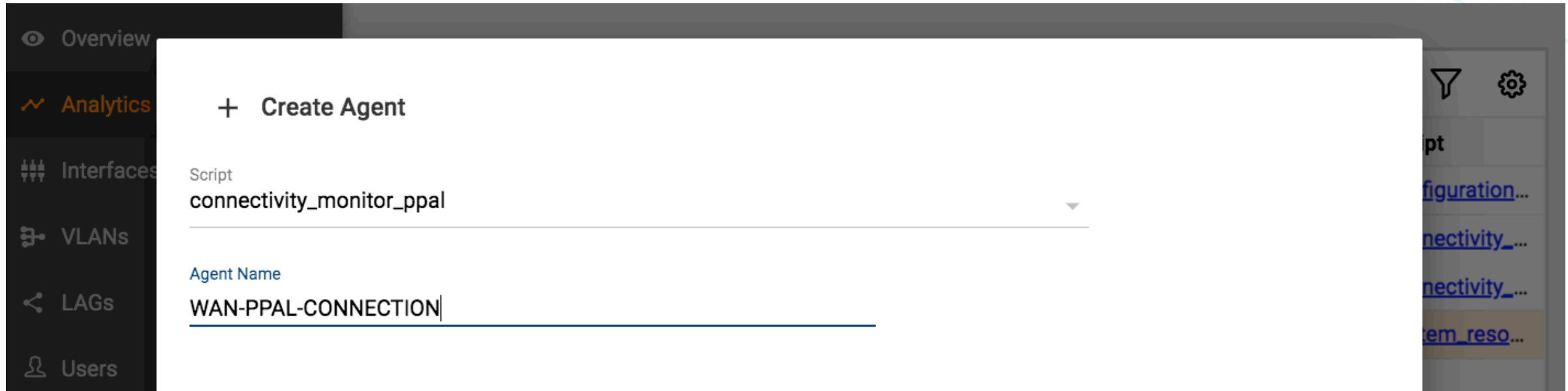
Aruba Netv

Aruba Netv

Aruba Netv

Aruba Netv

WAN-PPAL IP-SLA Agent



+ Create Agent

Script
connectivity_monitor_ppal

Agent Name
WAN-PPAL-CONNECTION

WAN-PPAL IP-SLA Agent

WAN-PPAL-CONNECTION

Parameters

Type	Name	Description	More Info	Value
INTEGER	connectivity_check_rate	? Connectivity Check Rate (in minutes)	Default: 1	1
STRING	ipsla_session_name	? IP-SLA Session Name	Default:	ppal



Save running config to startup

CREATE

CANCEL



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WAN-PPAL-CONNECTION

Parameters

Type	
INTEGER	
STRING	

☒ Save running config to startup

CREATE

CANCEL

✓ Success

WAN-PPAL-CONNECTION has been successfully created.
The result of the operation and any other changes on the device have been saved onto the startup configuration.

CLOSE

Test configuration

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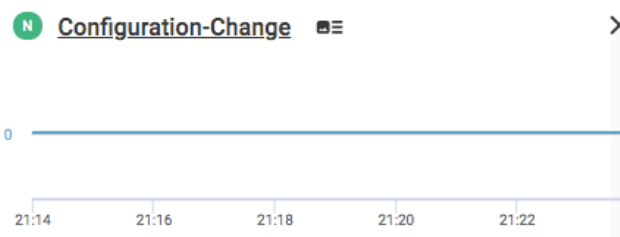
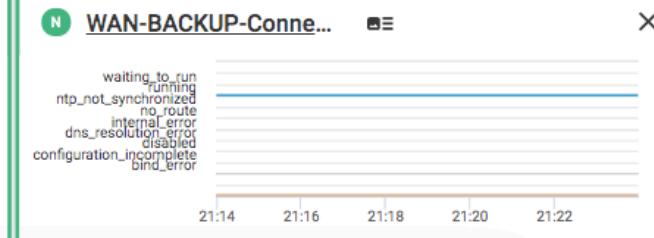
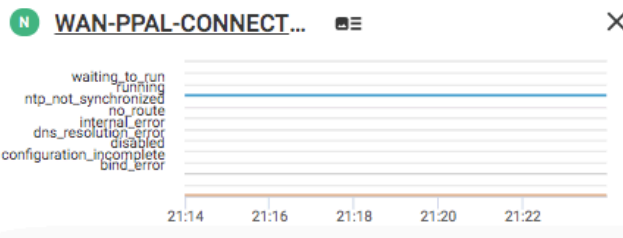
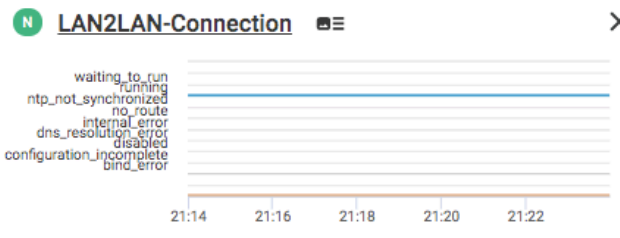
+	Configuration-Change	N	Normal
+	LAN2LAN-Connection	N	Normal
+	WAN-BACKUP-Connection	N	Normal
+	WAN-PPAL-CONNECTION	N	Normal
+	system_resource_monitor.default	N	Normal

Scripts

configuration_change_service_now
connectivity_monitor
connectivity_monitor_ppal
system_resource_monitor

Alerts

Time	Agent	Rule
05/19/20 21:04:25	Config...	Configuration change
05/19/20 21:04:00	WAN-P...	IP SLA ppal.last_probe_time
05/19/20 21:02:00	LAN2L...	IP SLA LAN2LAN.last_probe_time
05/19/20 21:01:20	Config...	Configuration change



SW_2 - SecureCRT

Enter host

Connect Change State Print Configuration

Session Manager

SW2#
SW2#
SW2#
SW2# conf t
SW2(config)# int 1/1/1
SW2(config-if)# shut
SW2(config-if)#

SW2: int 1/1/1 shutdown
ppal link failure

Ready

ssh2: AES-256-CTR 7, 17 7 Rows, 101 Cols Xterm

Overview

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Agents

+	WAN-PPAL-CONNECTION	C	Critical
+	Configuration-Change	N	Normal
+	LAN2LAN-Connection	N	Normal
+	WAN-BACKUP-Connection	N	Normal
+	system_resource_monitor.default	N	Normal

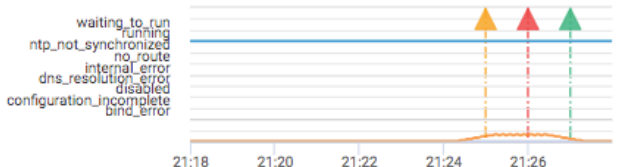
Scripts

configuration_change_service_now
connectivity_monitor
connectivity_monitor_ppal
system_resource_monitor

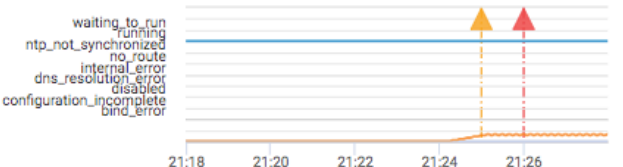
Alerts

Time	Agent	Rule
05/19/20 21:27:00	LAN2L...	IP SLA LAN2LAN.last_probe_time
05/19/20 21:26:25	Config...	Configuration change
05/19/20 21:26:00	WAN-P...	IP SLA ppal.last_probe_time
05/19/20 21:26:00	LAN2L...	IP SLA LAN2LAN.last_probe_time

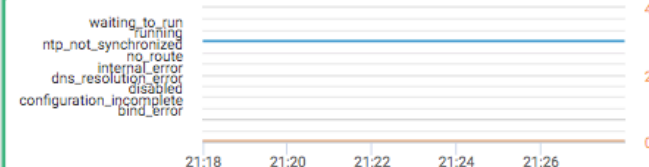
LAN2LAN-Connection



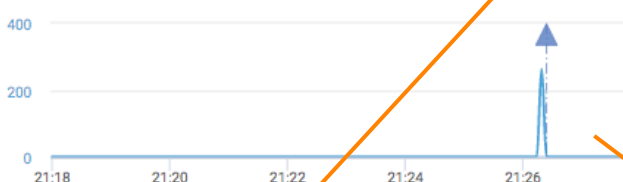
WAN-PPAL-CONNECT...



WAN-BACKUP-Conne...



Configuration-Change



Output

```
SW1# checkpoint diff CPC20200520020410 running-config
--- /tmp/CPC202005200204101589941597858 2020-05-19 21:26:37.856924060 -0500
+++ /tmp/running-config1589941600259 2020-05-19 21:26:40.257924119 -0500
@@ -31,7 +31,6 @@
ip route 10.10.24.0/30 10.10.12.2
ip route 10.10.34.0/30 10.10.13.2
ip route 192.168.2.0/24 10.10.13.2 distance 10
-ip route 192.168.2.0/24 10.10.12.2
ip dns server-address 8.8.8.8 vrf mgmt
https-server rest access-mode read-write
https-server vrf mgmt
```

Backup link being used

Config change applied

Overview

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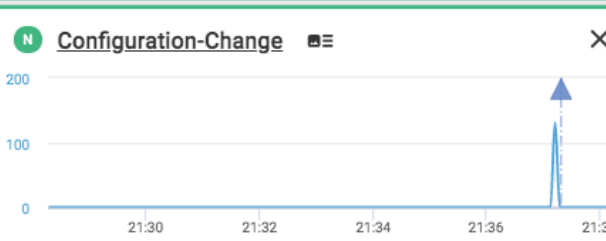
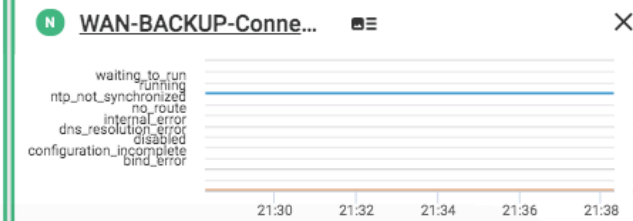
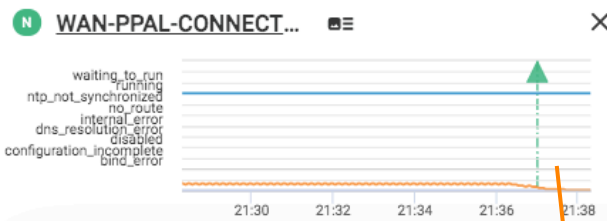
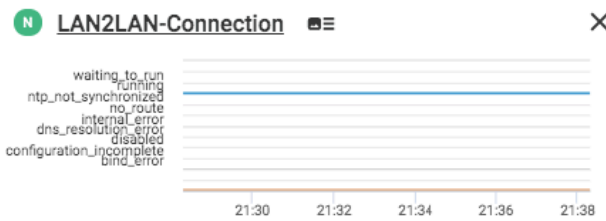
+	Configuration-Change	N	Normal
+	LAN2LAN-Connection	N	Normal
+	WAN-BACKUP-Connection	N	Normal
+	WAN-PPAL-CONNECTION	N	Normal
+	system_resource_monitor.default	N	Normal

Scripts

configuration_change_service_now
connectivity_monitor
connectivity_monitor_ppal
system_resource_monitor

Alerts

Time	Agent	Rule
05/19/20 21:37:20	Config...	Configuration change
05/19/20 21:37:00	WAN-P...	IP SLA ppal.last_probe_time
05/19/20 21:27:00	LAN2L...	IP SLA LAN2LAN.last_probe_time
05/19/20 21:26:25	Config...	Configuration change



SW_2 - SecureCRT

Connect Change State Print Configuration

Session Manager

```

SW2#
SW2# conf t
SW2(config)# int 1/1/1
SW2(config-if)# shut
SW2(config-if)# no shut
SW2(config-if)# end
SW2#
    
```

Ready ssh2: AES-256-CTR 7 6 7 Rows, 101 Cols Xterm

SW2: int 1/1/1 no shutdown
ppal link up

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Agents

+	Configuration-Change	N	Normal
+	LAN2LAN-Connection	N	Normal
+	WAN-BACKUP-Connection	N	Normal
+	WAN-PPAL-CONNECTION	N	Normal
+	system_resource_monitor.default	N	Normal

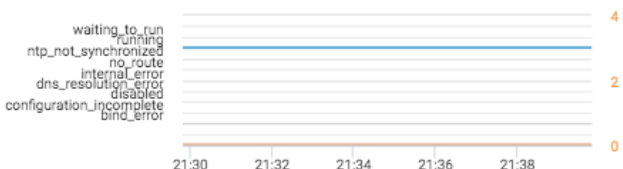
Scripts

configuration_change_service_now
connectivity_monitor
connectivity_monitor_ppal
system_resource_monitor

Alerts

Time	Agent	Rule
05/19/20 21:37:20	Config...	Configuration change
05/19/20 21:37:00	WAN-P...	IP SLA ppal.last_probe_time
05/19/20 21:27:00	LAN2L...	IP SLA LAN2LAN.last_probe_time
05/19/20 21:26:25	Config...	Configuration change

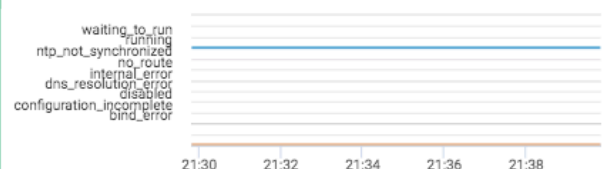
LAN2LAN-Connection



WAN-PPAL-CONNECT...



WAN-BACKUP-Conne...



Configuration-Change



Output

```
SW1# checkpoint diff CPC20200520022611 running-config
--- /tmp/CPC202005200226111589942247523 2020-05-19 21:37:27.521940169 -0500
+++ /tmp/running-config1589942250957 2020-05-19 21:37:30.955940254 -0500
@@ -31,6 +31,7 @@
 ip route 10.10.24.0/30 10.10.12.2
 ip route 10.10.34.0/30 10.10.13.2
 ip route 192.168.2.0/24 10.10.13.2 distance 10
+ip route 192.168.2.0/24 10.10.12.2
 ip dns server-address 8.8.8.8 vrf mgmt
 https-server rest access-mode read-write
 https-server vrf mgmt
```

Main link being used

Config change applied

Syslogs collected

```
ubuntu@ubuntu:~$ cat /var/log/syslog | grep 21:2
May 19 21:25:05 SW1 hpe-policyd[1867] Event|6901|LOG_INFO|AMM|-|An action has been triggered by the NAE agent WAN-PPAL-CONNECTION
May 19 21:25:05 SW1 hpe-policyd[1867] Event|5507|LOG_INFO|AMM|-|Monitored remote IP is not reachable, response Rx-packets were not received for the IP-SLA session ppal.
May 19 21:25:08 SW1 hpe-policyd[1867] Event|6901|LOG_INFO|AMM|-|An action has been triggered by the NAE agent LAN2LAN-Connection
May 19 21:25:08 SW1 hpe-policyd[1867] Event|5507|LOG_INFO|AMM|-|Monitored remote IP is not reachable, response Rx-packets were not received for the IP-SLA session LAN2LAN.
May 19 21:25:40 SW1 lldpd[809] Event|106|LOG_INFO|AMM|-|LLDP neighbor 08:00:09:18:ec:5f deleted on 1/1/1
May 19 21:26:04 SW1 hpe-policyd[1867] Event|6901|LOG_INFO|AMM|-|An action has been triggered by the NAE agent LAN2LAN-Connection
May 19 21:26:04 SW1 hpe-policyd[1867] Event|5507|LOG_INFO|AMM|-|Monitored remote IP is not reachable, response Rx-packets were not received for the IP-SLA session LAN2LAN.
May 19 21:26:08 SW1 hpe-policyd[1867] Event|6901|LOG_INFO|AMM|-|An action has been triggered by the NAE agent WAN-PPAL-CONNECTION
May 19 21:26:08 SW1 hpe-policyd[1867] Event|5507|LOG_INFO|AMM|-|Monitored remote IP is not reachable, response Rx-packets were not received for the IP-SLA session ppal.
May 19 21:26:31 SW1 hpe-policyd[1867] Event|6901|LOG_INFO|AMM|-|An action has been triggered by the NAE agent Configuration-Change
May 19 21:26:31 SW1 hpe-policyd[1867] Event|5507|LOG_INFO|AMM|-|Configuration change happened
May 19 21:27:05 SW1 hpe-policyd[1867] Event|6901|LOG_INFO|AMM|-|An action has been triggered by the NAE agent LAN2LAN-Connection
May 19 21:27:05 SW1 hpe-policyd[1867] Event|5507|LOG_INFO|AMM|-|Monitored remote IP is reachable, received response Rx-packets for the IP-SLA session LAN2LAN.
ubuntu@ubuntu:~$
```

References

- <https://community.hpe.com/t5/comware-based/policy-based-routing-with-tracking-nqa/td-p/7008226#.XrnmKhNKjq0>
- connectivity_monitor v1.1 <https://ase.arubanetworks.com/solutions/id/247>
- ArubaOS-CX 10.04 Monitoring Guide 8320, 8325 Switch Series.
- ArubaOS-CX 10.04 Network Analytics Engine Guide 6200, 6300, 6400, 8320, 8325, 8400 Switch Series



Thanks!