Lab 2 – Ad-hoc Commands

Introduction

In this lab we will be going over just some quick and easy ad-hoc commands you can run as one off commands and some of the different ways you can run them.

1. Ad-hoc for switches

**1.1** So we are going to use the raw module with one off commands to show how you can run ad-hoc commands to get back information.

ansible cisco\_switches -m raw -a "show version" -u admin -k

**Output:** Notice we have 3 switch outputs here, in our inventory file we have 3 Nexus switches in the cisco\_switches group.

n9k-standalone-01.localdomain | SUCCESS | rc=0 >>

Software

BIOS: version 07.34

NXOS: version 7.0(3)I2(1)

BIOS compile time: 08/11/2015

NXOS image file is: bootflash:///nxos.7.0.3.I2.1.bin

NXOS compile time: 9/3/2015 16:00:00 [09/04/2015 00:18:15]

Shared connection to n9k-standalone-01.localdomain closed.

n9k-standalone-02.localdomain | SUCCESS | rc=0 >>

Software

BIOS: version 07.34

NXOS: version 7.0(3)I2(1)

BIOS compile time: 08/11/2015

NXOS image file is: bootflash:///nxos.7.0.3.I2.1.bin

NXOS compile time: 9/3/2015 16:00:00 [09/04/2015 00:18:15]

Shared connection to n9k-standalone-02.localdomain closed.

n9k-standalone-03.localdomain | SUCCESS | rc=0 >>

Software

BIOS: version 07.34

NXOS: version 7.0(3)I2(1)

BIOS compile time: 08/11/2015

NXOS image file is: bootflash:///nxos.7.0.3.I2.1.bin

NXOS compile time: 9/3/2015 16:00:00 [09/04/2015 00:18:15]

Shared connection to n9k-standalone-03.localdomain closed.

**1.2** We can run just about anything from this raw command using SSH to access the switches via adhoc and pull data or grep through it. Take for example this one where we are running adhoc against the nxos a show logging log and grepping the last 10 results.

ansible nxos -m raw -a "show logging log | last 10" -u admin -k

**Output:**

n9k-standalone-01.localdomain | SUCCESS | rc=0 >>

2018 Jul 28 01:25:21 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 192.168.100.10@pts/1

2018 Jul 28 01:29:15 N9k-Standalone-Pod-1 last message repeated 1 time

2018 Jul 28 01:39:59 N9k-Standalone-Pod-1 last message repeated 5 times

2018 Jul 28 01:39:59 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 192.168.100.10@pts/0

2018 Jul 31 10:21:41 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 172.16.200.100@pts/0

2018 Jul 31 10:23:15 N9k-Standalone-Pod-1 last message repeated 1 time

2018 Aug 14 18:58:03 N9k-Standalone-Pod-1 %AUTHPRIV-3-SYSTEM\_MSG: pam\_aaa:Authentication failed for user admin from 172.16.15.200 - sshd[26218]

2018 Aug 14 18:58:03 N9k-Standalone-Pod-1 %DAEMON-3-SYSTEM\_MSG: error: PAM: Authentication failure for admin from 172.16.15.200 - sshd[26217]

2018 Aug 14 19:14:14 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 10.1.1.22@pts/1

2018 Aug 14 19:27:33 N9k-Standalone-Pod-1 last message repeated 1 time

**1.3** We can just like before also run this across a group of say Nexus switches to see all their logging logs looking for recent errors for example.

ansible cisco\_switches -m raw -a "show logging log | last 10" -u admin -k

**Output:**

n9k-standalone-01.localdomain | SUCCESS | rc=0 >>

2018 Jul 28 01:25:21 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 192.168.100.10@pts/1

2018 Jul 28 01:29:15 N9k-Standalone-Pod-1 last message repeated 1 time

2018 Jul 28 01:39:59 N9k-Standalone-Pod-1 last message repeated 5 times

2018 Jul 28 01:39:59 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 192.168.100.10@pts/0

2018 Jul 31 10:21:41 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 172.16.200.100@pts/0

2018 Jul 31 10:23:15 N9k-Standalone-Pod-1 last message repeated 1 time

2018 Aug 14 18:58:03 N9k-Standalone-Pod-1 %AUTHPRIV-3-SYSTEM\_MSG: pam\_aaa:Authentication failed for user admin from 172.16.15.200 - sshd[26218]

2018 Aug 14 18:58:03 N9k-Standalone-Pod-1 %DAEMON-3-SYSTEM\_MSG: error: PAM: Authentication failure for admin from 172.16.15.200 - sshd[26217]

2018 Aug 14 19:14:14 N9k-Standalone-Pod-1 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 10.1.1.22@pts/1

2018 Aug 14 19:27:33 N9k-Standalone-Pod-1 last message repeated 1 time

Shared connection to n9k-standalone-01.localdomain closed.

n9k-standalone-02.localdomain | SUCCESS | rc=0 >>

2018 Jul 24 21:58:32 switch %MODULE-5-MOD\_OK: Module 1 is online (Serial number: SAL1833YM8J)

2018 Jul 24 21:58:32 switch %PLATFORM-5-MOD\_STATUS: LC sub Module 1 current-status is MOD\_STATUS\_ONLINE/OK

2018 Jul 24 21:58:32 switch %ETHPORT-5-IF\_HARDWARE: Interface Ethernet1/11, hardware type changed to 10G

2018 Jul 24 21:58:32 switch %ETHPORT-5-IF\_DOWN\_ADMIN\_DOWN: Interface Ethernet1/11 is down (Administratively down)

2018 Jul 24 21:58:33 switch %VDC\_MGR-5-VDC\_HOSTNAME\_CHANGE: vdc 1 hostname changed to N9k-Standalone-Pod-2

2018 Jul 24 21:58:35 N9k-Standalone-Pod-2 %VLAN\_MGR-5-NOTIF\_MSG: VLAN 1,556-564,1005 Created

2018 Jul 24 21:58:36 N9k-Standalone-Pod-2 %ETHPORT-5-IF\_ADMIN\_UP: Interface Ethernet1/3 is admin up .

2018 Jul 24 21:58:36 N9k-Standalone-Pod-2 %ETHPORT-5-IF\_ADMIN\_UP: Interface Ethernet1/17 is admin up .

2018 Jul 24 21:58:37 N9k-Standalone-Pod-2 %ETHPORT-5-IF\_ADMIN\_UP: Interface Ethernet1/40 is admin up .

2018 Jul 24 21:58:37 N9k-Standalone-Pod-2 %VDC\_MGR-5-VDC\_HOSTNAME\_CHANGE: vdc 1 hostname changed to N9k-Standalone-Pod-2

Shared connection to n9k-standalone-02.localdomain closed.

n9k-standalone-03.localdomain | SUCCESS | rc=0 >>

2018 Jul 24 17:58:12 N9k-Standalone-Pod-3 %ETHPORT-5-IF\_UP: Interface Ethernet1/11 is up in Layer3

2018 Jul 24 17:58:19 N9k-Standalone-Pod-3 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by on vsh.8290

2018 Jul 24 17:58:21 N9k-Standalone-Pod-3 %ASCII-CFG-2-CONF\_CONTROL: System ready

2018 Jul 24 17:58:40 N9k-Standalone-Pod-3 %VMAN-2-ACTIVATION\_STATE: Successfully activated virtual service 'guestshell+'

2018 Jul 24 17:58:40 N9k-Standalone-Pod-3 %VMAN-2-GUESTSHELL\_ENABLED: The guest shell has been enabled. The command 'guestshell' may be used to access it, 'guestshell destroy' to remove it.

2018 Jul 26 21:28:31 N9k-Standalone-Pod-3 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 192.168.200.133@pts/2

2018 Jul 31 03:21:21 N9k-Standalone-Pod-3 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on 172.16.200.100@pts/2

2018 Jul 31 03:25:53 N9k-Standalone-Pod-3 last message repeated 1 time

2018 Aug 2 11:52:42 N9k-Standalone-Pod-3 %VSHD-5-VSHD\_SYSLOG\_CONFIG\_I: Configured from vty by admin on nginx

2018 Aug 2 11:55:25 N9k-Standalone-Pod-3 last message repeated 1 time

Shared connection to n9k-standalone-03.localdomain closed.