Test Report

October 07, 2020 08:32:00PM

# 1. Test Results Summary

## 1.1 Summary Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored | Total Duration |
| 8 | 4 | 4 | 0 | 0 | 20.216623067855835 |

## 1.2 Summary Totals for Devices Under Tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DUT | Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored |
| kg-topology-CloudEosRR2 | 2 | 1 | 1 | 0 | 0 |
| kg-topology-CloudEosRR1 | 2 | 1 | 1 | 0 | 0 |
| kg-topology-CloudEOSEdge1 | 2 | 1 | 1 | 0 | 0 |
| kg-topology-CloudEOSEdge2 | 2 | 1 | 1 | 0 | 0 |

## 1.3 Summary Totals for Test Suites

|  |  |  |  |
| --- | --- | --- | --- |
| Test Suite | Total Tests | Total Passed | Total Failed |
| Dns | 8 | 4 | 4 |

# 2. Test Case Results Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Id | Test Suite | Test Case | DUT | Result | Failure Reason |
| 1 | Dns | Test if dns resolves | kg-topology-CloudEOSEdge1 | PASS |  |
| 2 | Dns | Test if dns resolves | kg-topology-CloudEOSEdge2 | PASS |  |
| 3 | Dns | Test if dns resolves | kg-topology-CloudEosRR1 | PASS |  |
| 4 | Dns | Test if dns resolves | kg-topology-CloudEosRR2 | PASS |  |
| 5 | Dns | Test if dns servers are reachable | kg-topology-CloudEOSEdge1 | FAIL | On router |kg-topology-CloudEOSEdge1|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| 6 | Dns | Test if dns servers are reachable | kg-topology-CloudEOSEdge2 | FAIL | On router |kg-topology-CloudEOSEdge2|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| 7 | Dns | Test if dns servers are reachable | kg-topology-CloudEosRR1 | FAIL | On router |kg-topology-CloudEosRR1|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| 8 | Dns | Test if dns servers are reachable | kg-topology-CloudEosRR2 | FAIL | On router |kg-topology-CloudEosRR2|, verifying NTP server reachability for |11.201.12.2| is |False|. |

# 3. Detailed Test Suite Results: Dns

## 3.1 Test Case: Test if dns resolves

### 3.1.1 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 1 |
| Name | test\_if\_dns\_resolves\_on\_ |
| Description | Verify DNS is running by performing pings and verifying name resolution |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | show management api http-commands |
| Expected output | [True, True, True] |
| Actual output | [True, True, True] |
| Test result | True |
| Fail reason |  |
| Comment | TEST can |kg-topology-CloudEOSEdge1| resolve |google.com|. GIVEN URL is |google.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping google.com| is :  PING google.com (172.217.6.110) 72(100) bytes of data. 76 bytes from ord37s03-in-f14.1e100.net (172.217.6.110): icmp\_seq=1 ttl=101 (truncated) 76 bytes from ord37s03-in-f14.1e100.net (172.217.6.110): icmp\_seq=2 ttl=101 (truncated) 76 bytes from ord37s03-in-f14.1e100.net (172.217.6.110): icmp\_seq=3 ttl=101 (truncated) 76 bytes from ord37s03-in-f14.1e100.net (172.217.6.110): icmp\_seq=4 ttl=101 (truncated) 76 bytes from ord37s03-in-f14.1e100.net (172.217.6.110): icmp\_seq=5 ttl=101 (truncated)  --- google.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 62ms rtt min/avg/max/mdev = 20.795/20.856/21.002/0.174 ms, pipe 3, ipg/ewma 15.573/20.926 ms . TEST can |kg-topology-CloudEOSEdge1| resolve |cnn.com|. GIVEN URL is |cnn.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping cnn.com| is :  PING cnn.com (151.101.129.67) 72(100) bytes of data. 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=1 ttl=39 time=11.1 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=2 ttl=39 time=10.9 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=3 ttl=39 time=11.0 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=4 ttl=39 time=10.9 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=5 ttl=39 time=11.0 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 43ms rtt min/avg/max/mdev = 10.997/11.041/11.198/0.122 ms, pipe 2, ipg/ewma 10.822/11.117 ms . TEST can |kg-topology-CloudEOSEdge1| resolve |arista.com|. GIVEN URL is |arista.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping arista.com| is :  PING arista.com (64.68.200.46) 72(100) bytes of data. 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=1 ttl=39 time=23.4 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=2 ttl=39 time=23.3 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=3 ttl=39 time=23.2 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=4 ttl=39 time=23.3 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=5 ttl=39 time=23.2 ms  --- arista.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 66ms rtt min/avg/max/mdev = 23.281/23.333/23.472/0.153 ms, pipe 3, ipg/ewma 16.673/23.400 ms . |

### 3.1.2 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 2 |
| Name | test\_if\_dns\_resolves\_on\_ |
| Description | Verify DNS is running by performing pings and verifying name resolution |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | show management api http-commands |
| Expected output | [True, True, True] |
| Actual output | [True, True, True] |
| Test result | True |
| Fail reason |  |
| Comment | TEST can |kg-topology-CloudEOSEdge2| resolve |google.com|. GIVEN URL is |google.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping google.com| is :  PING google.com (172.217.9.46) 72(100) bytes of data. 76 bytes from ord38s08-in-f14.1e100.net (172.217.9.46): icmp\_seq=1 ttl=100 (truncated) 76 bytes from ord38s08-in-f14.1e100.net (172.217.9.46): icmp\_seq=2 ttl=100 (truncated) 76 bytes from ord38s08-in-f14.1e100.net (172.217.9.46): icmp\_seq=3 ttl=100 (truncated) 76 bytes from ord38s08-in-f14.1e100.net (172.217.9.46): icmp\_seq=4 ttl=100 (truncated) 76 bytes from ord38s08-in-f14.1e100.net (172.217.9.46): icmp\_seq=5 ttl=100 (truncated)  --- google.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 74ms rtt min/avg/max/mdev = 19.532/19.857/21.036/0.602 ms, pipe 2, ipg/ewma 18.649/20.426 ms . TEST can |kg-topology-CloudEOSEdge2| resolve |cnn.com|. GIVEN URL is |cnn.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping cnn.com| is :  PING cnn.com (151.101.65.67) 72(100) bytes of data. 80 bytes from 151.101.65.67 (151.101.65.67): icmp\_seq=1 ttl=39 time=12.0 ms 80 bytes from 151.101.65.67 (151.101.65.67): icmp\_seq=2 ttl=39 time=10.5 ms 80 bytes from 151.101.65.67 (151.101.65.67): icmp\_seq=3 ttl=39 time=10.5 ms 80 bytes from 151.101.65.67 (151.101.65.67): icmp\_seq=4 ttl=39 time=10.5 ms 80 bytes from 151.101.65.67 (151.101.65.67): icmp\_seq=5 ttl=39 time=10.5 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 47ms rtt min/avg/max/mdev = 10.534/10.838/12.006/0.594 ms, pipe 2, ipg/ewma 11.888/11.401 ms . TEST can |kg-topology-CloudEOSEdge2| resolve |arista.com|. GIVEN URL is |arista.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping arista.com| is :  PING arista.com (64.68.200.46) 72(100) bytes of data. 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=1 ttl=39 time=24.2 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=2 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=3 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=4 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=5 ttl=39 time=22.9 ms  --- arista.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 69ms rtt min/avg/max/mdev = 22.761/23.106/24.294/0.596 ms, pipe 3, ipg/ewma 17.436/23.682 ms . |

### 3.1.3 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 3 |
| Name | test\_if\_dns\_resolves\_on\_ |
| Description | Verify DNS is running by performing pings and verifying name resolution |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | show management api http-commands |
| Expected output | [True, True, True] |
| Actual output | [True, True, True] |
| Test result | True |
| Fail reason |  |
| Comment | TEST can |kg-topology-CloudEosRR1| resolve |google.com|. GIVEN URL is |google.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping google.com| is :  PING google.com (172.217.0.14) 72(100) bytes of data. 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=1 ttl=101 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=2 ttl=101 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=3 ttl=101 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=4 ttl=101 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=5 ttl=101 (truncated)  --- google.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 62ms rtt min/avg/max/mdev = 20.884/20.894/20.902/0.129 ms, pipe 3, ipg/ewma 15.572/20.898 ms . TEST can |kg-topology-CloudEosRR1| resolve |cnn.com|. GIVEN URL is |cnn.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping cnn.com| is :  PING cnn.com (151.101.129.67) 72(100) bytes of data. 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=1 ttl=39 time=11.1 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=2 ttl=39 time=11.0 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=3 ttl=39 time=11.0 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=4 ttl=39 time=11.0 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=5 ttl=39 time=11.0 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 43ms rtt min/avg/max/mdev = 11.057/11.081/11.123/0.023 ms, pipe 2, ipg/ewma 10.879/11.100 ms . TEST can |kg-topology-CloudEosRR1| resolve |arista.com|. GIVEN URL is |arista.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping arista.com| is :  PING arista.com (64.68.200.46) 72(100) bytes of data. 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=1 ttl=39 time=23.6 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=2 ttl=39 time=23.6 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=3 ttl=39 time=23.6 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=4 ttl=39 time=23.6 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=5 ttl=39 time=23.6 ms  --- arista.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 68ms rtt min/avg/max/mdev = 23.602/23.631/23.657/0.169 ms, pipe 3, ipg/ewma 17.066/23.638 ms . |

### 3.1.4 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 4 |
| Name | test\_if\_dns\_resolves\_on\_ |
| Description | Verify DNS is running by performing pings and verifying name resolution |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | show management api http-commands |
| Expected output | [True, True, True] |
| Actual output | [True, True, True] |
| Test result | True |
| Fail reason |  |
| Comment | TEST can |kg-topology-CloudEosRR2| resolve |google.com|. GIVEN URL is |google.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping google.com| is :  PING google.com (172.217.9.78) 72(100) bytes of data. 76 bytes from ord38s09-in-f14.1e100.net (172.217.9.78): icmp\_seq=1 ttl=101 (truncated) 76 bytes from ord38s09-in-f14.1e100.net (172.217.9.78): icmp\_seq=2 ttl=101 (truncated) 76 bytes from ord38s09-in-f14.1e100.net (172.217.9.78): icmp\_seq=3 ttl=101 (truncated) 76 bytes from ord38s09-in-f14.1e100.net (172.217.9.78): icmp\_seq=4 ttl=101 (truncated) 76 bytes from ord38s09-in-f14.1e100.net (172.217.9.78): icmp\_seq=5 ttl=101 (truncated)  --- google.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 70ms rtt min/avg/max/mdev = 19.560/19.575/19.602/0.153 ms, pipe 2, ipg/ewma 17.536/19.588 ms . TEST can |kg-topology-CloudEosRR2| resolve |cnn.com|. GIVEN URL is |cnn.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping cnn.com| is :  PING cnn.com (151.101.193.67) 72(100) bytes of data. 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=1 ttl=39 time=10.6 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=2 ttl=39 time=10.6 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=3 ttl=39 time=10.6 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=4 ttl=39 time=10.6 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=5 ttl=39 time=10.6 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 43ms rtt min/avg/max/mdev = 10.627/10.644/10.681/0.114 ms, pipe 2, ipg/ewma 10.798/10.662 ms . TEST can |kg-topology-CloudEosRR2| resolve |arista.com|. GIVEN URL is |arista.com|. WHEN exception is |Name or service not known| string. THEN test case result is |True|. OUTPUT of |ping arista.com| is :  PING arista.com (64.68.200.46) 72(100) bytes of data. 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=1 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=2 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=3 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=4 ttl=39 time=22.7 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=5 ttl=39 time=22.7 ms  --- arista.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 66ms rtt min/avg/max/mdev = 22.714/22.738/22.777/0.021 ms, pipe 3, ipg/ewma 16.565/22.757 ms . |

## 3.2 Test Case: Test if dns servers are reachable

### 3.2.1 DUT: KG-TOPOLOGY-CLOUDEOSEDGE1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 5 |
| Name | test\_if\_dns\_servers\_are\_reachable\_on\_ |
| Description | Verifies DNS servers are reachable via ping |
| Device under test | kg-topology-CloudEOSEdge1 |
| Show command | None |
| Expected output | [True] |
| Actual output | [False] |
| Test result | False |
| Fail reason | On router |kg-topology-CloudEOSEdge1|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| Comment | TEST NTP servers are reachable on |kg-topology-CloudEOSEdge1| GIVEN server |11.201.12.2|. WHEN exception is |bytes from| string. THEN test case result is |False|. OUTPUT of |ping 11.201.12.2| is :  PING 11.201.12.2 (11.201.12.2) 72(100) bytes of data.  --- 11.201.12.2 ping statistics --- 5 packets transmitted, 0 received, 100% packet loss, time 40ms  . |

### 3.2.2 DUT: KG-TOPOLOGY-CLOUDEOSEDGE2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 6 |
| Name | test\_if\_dns\_servers\_are\_reachable\_on\_ |
| Description | Verifies DNS servers are reachable via ping |
| Device under test | kg-topology-CloudEOSEdge2 |
| Show command | None |
| Expected output | [True] |
| Actual output | [False] |
| Test result | False |
| Fail reason | On router |kg-topology-CloudEOSEdge2|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| Comment | TEST NTP servers are reachable on |kg-topology-CloudEOSEdge2| GIVEN server |11.201.12.2|. WHEN exception is |bytes from| string. THEN test case result is |False|. OUTPUT of |ping 11.201.12.2| is :  PING 11.201.12.2 (11.201.12.2) 72(100) bytes of data.  --- 11.201.12.2 ping statistics --- 5 packets transmitted, 0 received, 100% packet loss, time 43ms  . |

### 3.2.3 DUT: KG-TOPOLOGY-CLOUDEOSRR1

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 7 |
| Name | test\_if\_dns\_servers\_are\_reachable\_on\_ |
| Description | Verifies DNS servers are reachable via ping |
| Device under test | kg-topology-CloudEosRR1 |
| Show command | None |
| Expected output | [True] |
| Actual output | [False] |
| Test result | False |
| Fail reason | On router |kg-topology-CloudEosRR1|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| Comment | TEST NTP servers are reachable on |kg-topology-CloudEosRR1| GIVEN server |11.201.12.2|. WHEN exception is |bytes from| string. THEN test case result is |False|. OUTPUT of |ping 11.201.12.2| is :  PING 11.201.12.2 (11.201.12.2) 72(100) bytes of data.  --- 11.201.12.2 ping statistics --- 5 packets transmitted, 0 received, 100% packet loss, time 40ms  . |

### 3.2.4 DUT: KG-TOPOLOGY-CLOUDEOSRR2

|  |  |
| --- | --- |
| Test Parameter | Description |
| Test id | 8 |
| Name | test\_if\_dns\_servers\_are\_reachable\_on\_ |
| Description | Verifies DNS servers are reachable via ping |
| Device under test | kg-topology-CloudEosRR2 |
| Show command | None |
| Expected output | [True] |
| Actual output | [False] |
| Test result | False |
| Fail reason | On router |kg-topology-CloudEosRR2|, verifying NTP server reachability for |11.201.12.2| is |False|. |
| Comment | TEST NTP servers are reachable on |kg-topology-CloudEosRR2| GIVEN server |11.201.12.2|. WHEN exception is |bytes from| string. THEN test case result is |False|. OUTPUT of |ping 11.201.12.2| is :  PING 11.201.12.2 (11.201.12.2) 72(100) bytes of data.  --- 11.201.12.2 ping statistics --- 5 packets transmitted, 0 received, 100% packet loss, time 40ms  . |