Test Report

October 08, 2020 12:50:49AM

# 1. Test Results Summary

## 1.1 Summary Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored | Total Duration |
| 12 | 4 | 8 | 0 | 0 | 17.515024423599243 |

## 1.2 Summary Totals for Devices Under Tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DUT | Total Tests | Total Passed | Total Failed | Total Skipped | Total Errored |
| kg-topology-CloudEosRR1 | 3 | 1 | 2 | 0 | 0 |
| kg-topology-CloudEosRR2 | 3 | 1 | 2 | 0 | 0 |
| kg-topology-CloudEOSEdge1 | 3 | 1 | 2 | 0 | 0 |
| kg-topology-CloudEOSEdge2 | 3 | 1 | 2 | 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 (172.217.4.206) 72(100) bytes of data. 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=1 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=2 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=3 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=4 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): 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 = 20.686/20.731/20.854/0.110 ms, pipe 3, ipg/ewma 15.571/20.790 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=11.4 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=2 ttl=39 time=11.3 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=3 ttl=39 time=11.2 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=4 ttl=39 time=11.2 ms 80 bytes from 151.101.129.67 (151.101.129.67): icmp\_seq=5 ttl=39 time=11.2 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 110ms rtt min/avg/max/mdev = 11.291/11.333/11.485/0.154 ms, pipe 2, ipg/ewma 27.715/11.406 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=23.6 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=2 ttl=39 time=23.4 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=3 ttl=39 time=23.3 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=4 ttl=39 time=23.4 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=5 ttl=39 time=23.4 ms  --- arista.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 68ms rtt min/avg/max/mdev = 23.382/23.455/23.635/0.133 ms, pipe 3, ipg/ewma 17.072/23.542 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 (172.217.0.14) 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 63ms rtt min/avg/max/mdev = 20.262/20.634/21.814/0.609 ms, pipe 3, ipg/ewma 15.920/21.205 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 (151.101.193.67) 72(100) bytes of data. 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=1 ttl=39 time=12.0 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=10.7 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 168ms rtt min/avg/max/mdev = 10.626/10.938/12.033/0.556 ms, pipe 2, ipg/ewma 42.212/11.466 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=22.8 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 69ms rtt min/avg/max/mdev = 22.733/23.059/24.205/0.597 ms, pipe 3, ipg/ewma 17.422/23.610 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 (172.217.4.206) 72(100) bytes of data. 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=1 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=2 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=3 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=4 ttl=101 (truncated) 76 bytes from ord37s19-in-f14.1e100.net (172.217.4.206): icmp\_seq=5 ttl=101 (truncated)  --- google.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 60ms rtt min/avg/max/mdev = 20.271/20.292/20.341/0.093 ms, pipe 3, ipg/ewma 15.195/20.293 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 (151.101.193.67) 72(100) bytes of data. 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=1 ttl=39 time=11.0 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=2 ttl=39 time=11.0 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=3 ttl=39 time=11.1 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=4 ttl=39 time=11.0 ms 80 bytes from 151.101.193.67 (151.101.193.67): icmp\_seq=5 ttl=39 time=11.2 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 43ms rtt min/avg/max/mdev = 11.073/11.128/11.292/0.142 ms, pipe 2, ipg/ewma 10.886/11.117 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=23.2 ms 80 bytes from url-fwd.easydns.com (64.68.200.46): icmp\_seq=2 ttl=39 time=23.2 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=23.1 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 68ms rtt min/avg/max/mdev = 23.193/23.243/23.282/0.140 ms, pipe 3, ipg/ewma 17.067/23.253 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 (172.217.0.14) 72(100) bytes of data. 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=1 ttl=100 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=2 ttl=100 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=3 ttl=100 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=4 ttl=100 (truncated) 76 bytes from ord38s04-in-f14.1e100.net (172.217.0.14): icmp\_seq=5 ttl=100 (truncated)  --- google.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 60ms rtt min/avg/max/mdev = 20.360/20.371/20.381/0.156 ms, pipe 3, ipg/ewma 15.191/20.373 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 (151.101.1.67) 72(100) bytes of data. 80 bytes from 151.101.1.67 (151.101.1.67): icmp\_seq=1 ttl=39 time=11.1 ms 80 bytes from 151.101.1.67 (151.101.1.67): icmp\_seq=2 ttl=39 time=11.3 ms 80 bytes from 151.101.1.67 (151.101.1.67): icmp\_seq=3 ttl=39 time=10.6 ms 80 bytes from 151.101.1.67 (151.101.1.67): icmp\_seq=4 ttl=39 time=10.6 ms 80 bytes from 151.101.1.67 (151.101.1.67): icmp\_seq=5 ttl=39 time=10.8 ms  --- cnn.com ping statistics --- 5 packets transmitted, 5 received, 0% packet loss, time 118ms rtt min/avg/max/mdev = 10.643/10.930/11.390/0.308 ms, pipe 2, ipg/ewma 29.596/11.016 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=22.8 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 = 22.702/22.763/22.817/0.102 ms, pipe 3, ipg/ewma 16.564/22.767 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 42ms  . |

### 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  . |