

How-To opConfig Command Compare

Command Compare

opConfig gives you the ability to easily compare command outputs. opConfig stores command revisions so you can compare various command outputs from different days or nodes. This feature allows you to get an idea of how a node is performing over time. As shown in the screenshot below, using the MTR command we can see and compare the functionality of both the ping and traceroute commands for the different command run revisions. To make the Command Compare even more convenient you can also do a Run Diff on the results to view the changes easier.

opConfig 3.2.4ViewsActionsVirtual OperatorSearch

HomeCommand CompareCommand CompareRun DiffFilter

Select Older Version

Node:meatballCommand:mtrRevision:1721View

Start: Thu May 7 16:02:25 2020

HOST: lodur

	Loss	Snt	Last	Avg	Best	Worst	StDev
1. - 216.182.237.195	0.0%	10	62.0	23.6	2.2	62.9	24.9
2. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
3. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
4. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
5. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
6. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
7. - 100.65.0.193	0.0%	10	0.4	0.4	0.3	0.5	0.0
8. - 72.21.222.223	0.0%	10	0.0	1.1	0.7	1.6	0.0
9. - 54.240.242.102	0.0%	10	1.0	5.3	1.5	20.2	7.1
10. - 54.240.242.93	0.0%	10	2.7	1.1	0.7	2.7	0.5
11. - sjo-k21-link.telia.net	0.0%	10	1.3	1.6	1.1	4.1	0.0
12. - las-k21-link.telia.net	0.0%	10	7.1	7.3	7.0	8.8	0.5
13. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
14. - te-m-b-1-5.cr3.syd2.on.ll.net	0.0%	10	105.7	105.7	105.1	105.7	13.3
15. - 777	0.0%	0	0.0	0.0	0.0	0.0	0.0

Select Newer Version

Node:meatballCommand:mtrRevision:1722View

Start: Thu May 7 17:02:26 2020

HOST: lodur

	Loss	Snt	Last	Avg	Best	Worst	StDev
1. - 216.182.237.195	0.0%	10	63.0	6.3	0.0	10.5	5.7
2. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
3. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
4. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
5. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
6. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
7. - 100.65.0.1	0.0%	10	0.3	1.2	0.3	4.6	1.3
8. - 72.21.222.223	0.0%	10	0.0	1.2	0.7	1.0	0.0
9. - 54.240.242.102	0.0%	10	1.5	2.4	1.4	7.4	1.7
10. - 54.240.242.153	0.0%	10	0.7	0.0	0.7	0.0	0.0
11. - sjo-k21-link.telia.net	0.0%	10	1.1	1.2	1.1	1.4	0.0
12. - las-k21-link.telia.net	0.0%	10	7.4	7.3	7.0	7.5	0.0
13. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
14. - te-m-b-1-5.cr3.syd2.on.ll.net	0.0%	10	103.9	170.1	103.9	12.1	
15. - 777	0.0%	0	0.0	0.0	0.0	0.0	0.0

Once the Command Compare is complete you can make viewing these differences even more convenient by clicking the 'Run Diff' button on the results to view the changes more clearly.

opConfig 3.2.4ViewsActionsVirtual OperatorSearch

HomeCommand CompareCommand CompareRun DiffFilter

Select Older Version

Node:meatballCommand:mtrRevision:1722View

Start: Thu May 7 17:02:26 2020

HOST: lodur

	Loss	Snt	Last	Avg	Best	Worst	StDev
1. - 216.182.237.195	0.0%	10	10.0	6.3	0.0	10.5	5.7
2. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
3. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
4. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
5. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
6. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
7. - 100.65.0.1	0.0%	10	0.3	1.2	0.3	4.6	1.3
8. - 72.21.222.223	0.0%	10	0.0	1.2	0.7	1.0	0.0
9. - 54.240.242.102	0.0%	10	1.6	2.4	1.4	7.4	1.7
10. - 54.240.242.153	0.0%	10	0.7	0.0	0.7	0.0	0.0
11. - sjo-k21-link.telia.net	0.0%	10	1.1	1.2	1.1	1.4	0.0
12. - las-k21-link.telia.net	0.0%	10	7.4	7.3	7.0	7.5	0.0
13. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
14. - te-m-b-1-5.cr3.syd2.on.ll.net	0.0%	10	103.9	170.1	103.9	12.1	
15. - 777	0.0%	0	0.0	0.0	0.0	0.0	0.0

Select Newer Version

Node:meatballCommand:mtrRevision:1723View

Start: Thu May 7 18:02:24 2020

HOST: lodur

	Loss	Snt	Last	Avg	Best	Worst	StDev
1. - 216.182.237.195	0.0%	10	1.2	10.2	3.1	69.1	20.0
2. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
3. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
4. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
5. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
6. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
7. - 100.65.0.1	0.0%	10	0.5	0.5	0.3	2.5	0.7
8. - 72.21.222.223	0.0%	10	0.7	1.0	0.7	6.0	1.7
9. - 54.240.242.102	0.0%	10	1.0	2.0	1.4	10.4	2.0
10. - 54.240.242.153	0.0%	10	0.0	1.0	0.7	3.2	0.0
11. - sjo-k21-link.telia.net	0.0%	10	1.7	1.3	1.1	1.7	0.0
12. - las-k21-link.telia.net	0.0%	10	7.0	7.3	7.3	7.0	0.0
13. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
14. - te-m-b-1-5.cr3.syd2.on.ll.net	0.0%	10	154.9	160.0	154.9	103.9	12.2
15. - 777	0.0%	0	0.0	0.0	0.0	0.0	0.0

Unified Diff

Start: Thu May 7 18:02:26 2020

HOST: lodur

	Loss	Snt	Last	Avg	Best	Worst	StDev
1. - 216.182.237.195	0.0%	10	10.0	6.3	0.0	10.5	5.7
2. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
3. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
4. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
5. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
6. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
7. - 100.65.0.1	0.0%	10	0.3	1.2	0.3	4.6	1.3
8. - 72.21.222.223	0.0%	10	0.0	1.2	0.7	1.0	0.0
9. - 54.240.242.102	0.0%	10	1.6	2.4	1.4	7.4	1.7
10. - 54.240.242.153	0.0%	10	0.7	0.0	0.7	0.0	0.0
11. - sjo-k21-link.telia.net	0.0%	10	1.1	1.2	1.1	1.4	0.0
12. - las-k21-link.telia.net	0.0%	10	7.4	7.3	7.0	7.5	0.0
13. - 777	100.0	10	0.0	0.0	0.0	0.0	0.0
14. - te-m-b-1-5.cr3.syd2.on.ll.net	0.0%	10	103.9	170.1	103.9	12.1	
15. - 777	0.0%	0	0.0	0.0	0.0	0.0	0.0

How-To Command Compare

Step1:

Navigate to your opCharts GUI and click on Views Compare Command Outputs

The screenshot shows the opConfig 3.2.4 dashboard. In the left sidebar, the 'Compare Command Outputs' option is highlighted with a red arrow. The main dashboard area displays various operational status summaries and troubleshooting tools.

Category	Count
Nodes Enabled	36
Nodes With Credentials	26
Nodes With Data	25
Nodes With Connection Errors	1
Nodes With No Configuration Backup	11
Unique Commands	15
Average Commands / Node	328
Number of Unique Node / Commands	38419

Event Type	Count	Percentage
Plugin Error	91	0.41%
Connection Error	272	1.24%
Command Execution Completed	20427	92.83%
Timeout	10	0.05%
Unknown Error	766	3.49%
Success	22	0.10%
Authentication Error	414	1.88%
Total Operational Events	22004	

Detected At	Node	Changes
2020-05-07T18:03:03	omik-r1	0
2020-05-07T18:02:56	omik-core4	0
2020-05-07T18:02:52	omik-core3	0
2020-05-07T18:02:46	omik-core2	10
2020-05-07T18:02:42	omik-core1	0
2020-05-07T18:02:24	midgard	0
2020-05-07T18:02:04	asgard	0
2020-05-07T07:13:08	vyos-r2	0
2020-05-07T07:12:48	vyos-r1	2

Step 2:

Enter in the Node, Command and Revision for the older version of the command you wish to compare then click 'View' to see the commands output displayed below.



Note

There will be no Commands populated for a Node that has not had any commands recently. In order to get this drop down menu to populate you would first need to have command history stored from previously run commands.

The screenshot shows the 'Command Compare' interface in opConfig 3.2.4. The 'Select Older Version' section is active, showing a dropdown for 'Node' (midgard), a dropdown for 'Command' (mtr), and a dropdown for 'Revision' (8132). A 'View' button is visible next to the revision dropdown.

In the Select Newer Version box, follow the same process and choose the node, command and revision you wish to compare commands with then click 'View' to view the command output.

The screenshot shows the 'Select Newer Version' section of the 'Command Compare' interface. The 'Node' dropdown is set to 'midgard', the 'Command' dropdown is set to 'mtr', and the 'Revision' dropdown is set to '8132'. A 'View' button is visible next to the revision dropdown.

Step 3:

Use the "Run Diff" button to easily see the differences between the command sets by the color coded changes.

The screenshot shows the opConfig 3.2.4 Command Compare interface. At the top, there's a navigation bar with "opConfig 3.2.4", "Views", "Actions", "Virtual Operator", and "Search". On the right, it says "Modules", "System", "Help", and "User: nmia". Below this, the "Command Compare" section has a "Run Diff" button highlighted with a red arrow. The interface is divided into three main sections: "Select Older Version", "Select Newer Version", and "Unified Diff".

Select Older Version: Node: meatball, Command: ping, Revision: 1722. The output shows ping statistics for 203.206.187.243, with rtt values ranging from 185.994 to 215.849 ms.

Select Newer Version: Node: meatball, Command: ping, Revision: 1723. The output shows ping statistics for 203.206.187.243, with rtt values ranging from 186.184 to 217.483 ms.

Unified Diff: This section shows the differences between the two versions. The changes are color-coded: red for deletions and green for additions. The rtt values in the unified diff are: 185.994, 205.552, 215.849, 211.785, 186.184, 198.972, 217.483, 14.835 ms.

That's all there is to it! Now enjoy knowing with the click of a few buttons you have historical command data as well as the ability to compare them at your fingertips.