

Interface Utilisation Report

Interface Utilisation Report

The interface utilisation report shows the interface utilisation statistics for one or more interfaces. By default it will display the averages for input, output, combined and higher-of-in-and-output bandwidth utilisation, as well as exception counts and cumulative exception period.

Exceptions are defined as any of the utilisation readings rising above option `util_threshold` (default: 80%). The exception period is defined as all the intervals with over-threshold readings. In addition to those raw readings, the labeling of an interface as in exceptional or normal state is controlled by option `util_threshold_mincount` (default: 1), which defines how many exceptions have to be observed before the interface is labelled "bad".

This report can be further adjusted with these options:

- Option `show_threshold` (default: true)
If set to false, no thresholds are shown; instead the bandwidth, average traffic and average utilisation are presented (plus a shortened report period column).
- Option `show_only_util` (default: false)
If `show_threshold` is false, and if `show_only_util` is set to true, then only bandwidth and average utilisation are shown (i.e. average traffic is omitted).

Example of an Interface Utilisation Report with the option `show_threshold=true` shown below. The full report can be viewed by downloading the ZIP file [Here](#)

opReports 3.0.14Views -

Modules - Help - User: rmls -

a util report for all nodes

InfoCSVHTMLXLSXZIPEmailDelete

Coverage: 0 day(s), from 2017-10-05T07:24:00 to 2017-10-05T13:47:00 AEST
Generated: 2017-10-05T13:50:05 AEST

Node	Interface	Description	Over Threshold Flag	Over-threshold Minutes	Average In%	Average Out%	Average Combined%	Average Higher%	In Over #	Out Over #	Combined Over #	Higher Over #
asgard	FastEthernet0/0	Opmarket LAN			0.197	0.592	0.394	0.599				
asgard	FastEthernet0/1	WAN/DSL			0.573	0.187	0.380	0.581				
asgard	Tunnel0	Hurricane Electric IPv6 Tunnel Broker			0.000	0.000	0.000	0.000				
asgard	Tunnel100	Connection to Oxford Lab			0.000	0.444	0.222	0.444				
asgard	Tunnel42	Connection to other locations			0.318	1.125	0.721	1.176				
bne-router1	FastEthernet0/0	DMZ towards office LAN			0.187	0.573	0.380	0.581				
bne-router1	FastEthernet0/1	OnTheNet WAN Link			0.558	0.186	0.372	0.566				
bne-router1	Loopback0	CNOC: Local routing peer			0.000	0.000	0.000	0.000				
bne-server1	eth0				0.008	0.009	0.009	0.011				
bne-switch1	GigabitEthernet1/0/1	eris second interface			0.027	0.015	0.021	0.030				
bne-switch1	GigabitEthernet1/0/11	baldr port 1			0.000	0.000	0.000	0.000				
bne-switch1	GigabitEthernet1/0/19	OMK DMZ Subnet			0.190	0.577	0.384	0.586				
bne-switch1	GigabitEthernet1/0/2	magni remote access card			0.000	0.002	0.001	0.002				
bne-switch1	GigabitEthernet1/0/20	OMK DMZ Subnet			0.577	0.190	0.384	0.586				
bne-switch1	GigabitEthernet1/0/23	uplink router asgard			0.595	0.201	0.398	0.604				
bne-switch1	GigabitEthernet1/0/24	netgear wifi			0.008	0.045	0.026	0.045				
bne-switch1	GigabitEthernet1/0/3	Sif			0.013	0.041	0.027	0.042				
bne-switch1	GigabitEthernet1/0/4	Magni			0.017	0.019	0.018	0.019				
bne-switch1	GigabitEthernet1/0/5	Eris			0.000	0.000	0.000	0.000				
bne-switch1	GigabitEthernet1/0/6	Odin Mk.2			0.021	0.006	0.013	0.021				
bne-switch1	GigabitEthernet1/0/7	Odin Mk.2 second interface			0.000	0.001	0.000	0.001				
char-router1	FastEthernet0/0	DMZ towards office LAN			0.187	0.573	0.380	0.581				
char-router1	FastEthernet0/1	OnTheNet WAN Link			0.558	0.186	0.372	0.566				
char-router1	Loopback0	CNOC: Local routing peer			0.000	0.000	0.000	0.000				
meatball	ATM0: 1-wall layer		Yes	129	22.337	8.174	14.233	22.337	11		3	11
meatball	Dslr0/1	Escape to the Cloud Back	Yes	195	32.726	0.750	16.738	32.726	16		7	16
meatball	FastEthernet0				0.067	0.278	0.173	0.278				
char-switch1	GigabitEthernet1/0/11	baldr port 1			0.000	0.000	0.000	0.000				
char-switch1	GigabitEthernet1/0/19	OMK DMZ Subnet			0.190	0.577	0.383	0.586				
char-switch1	GigabitEthernet1/0/2	magni remote access card			0.000	0.002	0.001	0.002				

To switch the report to display only bandwidth and average utilisation, click the show only util box. This is an advanced option and is shown in a screen shot below.

Create On-Demand Report

Report Description

(optional) Description of the report

Report Type

Node Report

Node Selection

All Active Nodes

Start Date/Time

now - 7 days

?

End Date/Time

now

?

From Hours

?

0

To Hours

?

24

Days

?

Mon-Sun

?

Formats

☒ HTML

☒ CSV

☒ XLSX

Report Name

(Optional) Report Name

?

Node Name Display

Plain Node Name

?

Interface Display

Interface Description

?

Include Embedded Graphs

☒

Custom Report Title

(Optional) Custom Report Title

?

Exceptions Report

☐ Exceptions Only (Health Report)

WAN Report Level

Full Detail

?

Show Util Thresholds

☐

Show only Util

☒

Utilisation Threshold

80

%

Min Over-Threshold Count

1

Show 95th Percentile

Combined In and Out Utilisation

?

Authorised Viewers

?

Generate

Cancel

Advanced Options

With the advanced option `show_threshold=false` and `show_only_util=true` the report displays similar to the screen shot below. The full report can be viewed by downloading the ZIP file [Here](#)

opReports 3.0.14 Views

Modules Help User: nmls

Interface Utilisation Report

Info CSV HTML XLSX ZIP Email Delete

Coverage: 7 day(s), from 2017-10-04T04:03:05 to 2017-10-11T04:03:05 AEST
Generated: 2017-10-11T04:03:24 AEST

Node	Interface	Description	Bandwidth In (Mbps)	Bandwidth Out (Mbps)	Average Util%	Period
asgard	FastEthernet0/0	Optantek LAN	100	100	0.60	Oct4-Oct11
asgard	FastEthernet0/1	WAN/DSL	100	100	0.59	Oct4-Oct11
asgard	Tunnel0	Hurricane Electric IPv6 Tunnel Broker	0.01	0.01	0.00	Oct4-Oct11
asgard	Tunnel100	Connection to Oxford Lab	0.01	0.01	0.23	Oct4-Oct11
asgard	Tunnel42	Connection to other locations	0.01	0.01	0.70	Oct4-Oct11
bne-router1	FastEthernet0/0	DMZ towards office LAN	100	100	0.59	Oct4-Oct11
bne-router1	FastEthernet0/1	OnTheNet WAN Link	100	100	0.58	Oct4-Oct11
bne-router1	Loopback0	CNOC: Local routing peer	8000	8000	0.00	Oct4-Oct11
bne-server1	eth0		1000	1000	0.02	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/1	eris second interface	1000	1000	0.04	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/11	baldr port 1	1000	1000	0.00	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/19	OMK DMZ Subnet	100	100	0.59	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/2	magni remote access card	100	100	0.00	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/20	OMK DMZ Subnet	100	100	0.59	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/23	uplink router asgard	100	100	0.61	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/24	netgear wifi	1000	1000	0.03	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/3	Sif	1000	1000	0.10	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/4	Magni	1000	1000	0.02	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/5	Eris	1000	1000	0.00	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/6	Odin Mk2	1000	1000	0.01	Oct4-Oct11
bne-switch1	GigabitEthernet1/0/7	Odin Mk2 second interface	1000	1000	0.00	Oct4-Oct11
char-router1	FastEthernet0/0	DMZ towards office LAN	100	100	0.59	Oct4-Oct11
char-router1	FastEthernet0/1	OnTheNet WAN Link	100	100	0.58	Oct4-Oct11
char-router1	Loopback0	CNOC: Local routing peer	8000	8000	0.00	Oct4-Oct11
char-server1	ethernet_8	Intel(R) PRO/1000 MT Network Connection	1000	1000	0.01	Oct4-Oct11
char-server1	ethernet_8	Check Point Virtual Network Adapter For SSL Network Extender	1000	1000	0.00	Oct4-Oct11
char-switch1	GigabitEthernet1/0/1	eris second interface	1000	1000	0.04	Oct4-Oct11
char-switch1	GigabitEthernet1/0/11	baldr port 1	1000	1000	0.00	Oct4-Oct11
char-switch1	GigabitEthernet1/0/19	OMK DMZ Subnet	100	100	0.59	Oct4-Oct11
char-switch1	GigabitEthernet1/0/2	magni remote access card	100	100	0.00	Oct4-Oct11
char-switch1	GigabitEthernet1/0/20	OMK DMZ Subnet	100	100	0.59	Oct4-Oct11
char-switch1	GigabitEthernet1/0/23	uplink router asgard	100	100	0.61	Oct4-Oct11