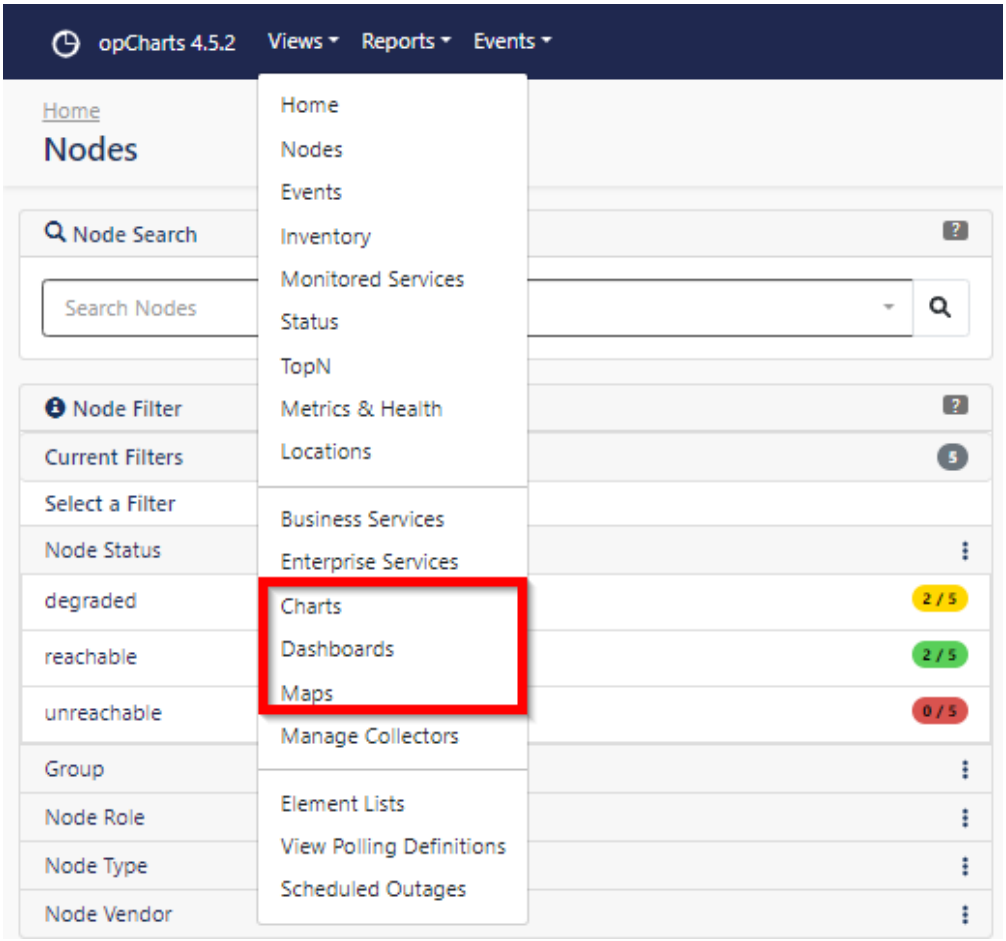
Export / Import Dashboards, Maps and Charts from opCharts to a New Server

Introduction

The purpose of this article is how to export and import dashboards, maps, and charts from an old server running opCharts and migrate to a new server.



Reviewing your dashboards, charts, or maps:

You can use the opcharts-cli.pl tool. This is located in /usr/local/omk/bin.

Some examples below for listing views:

```
/usr/local/omk/bin/opcharts-cli.pl act=list-dashboards
/usr/local/omk/bin/opcharts-cli.pl act=list-charts
/usr/local/omk/bin/opcharts-cli.pl act=list-maps
```

As well as:

```
cd  /usr/local/omk/bin/
./opcharts-cli.pl act=list-dashboards
./opcharts-cli.pl act=list-charts
./opcharts-cli.pl act=list-maps
```

For a full list of available operations, we can run opcharts-cli.pl on its own, for example /usr/local/omk/bin/opcharts-cli.pl.

```
Usage: opcharts-cli.pl act=[action to take] [options...]

opcharts-cli.pl act=list-{charts|maps|dashboards|business|pollers|collectors|enterprise}

opcharts-cli.pl act=delete-{charts|maps|dashboards|business|pollers|collectors|enterprise} [name=A name=B...]

opcharts-cli.pl act=export-{charts|maps|dashboards|business|pollers|collectors|enterprise} [name=A name=B...]
[file=path]
file: save JSON to file, otherwise printed to STDOUT.
name: list of resource names to export. defaults to all resources.

opcharts-cli.pl act=import-{charts|maps|dashboards|business|pollers|collector|enterprise} [name=A name=B...]
[file=path] [force=true]
file: read JSON from file, otherwise read from STDIN
name: list of resource names to import. defaults to all resources.
force: if true will force the import to happen, replacing existing entries if they exist with the same name

opcharts-cli.pl act=import-subnets  [force=true]
caches the subnets

opcharts-cli.pl act=clear-subnets
clears the subnet cache

opcharts-cli.pl act=import-user-dashboard name=dashboard-name users='user1, user2, ...'
change the default dashboard for a list of users

opcharts-cli.pl act=clear-all-node-depend
clear all node depend (subnet)

opcharts-cli.pl act=update-subnet-dependency
Update all nodes dependencies

opcharts-cli.pl act=setup-db
Sets up opCharts required indexes for MongoDB

opcharts-cli.pl act=enrich-business-services
Enrich data for each business service to make fields sortable

opcharts-cli.pl act={add|delete}-enterprise-service-object name="Enterprise Service Name"
[type=node|interface|monitored_service] [node_uuid=A] [index=1] [monitored_service_name=A]
Add or delete a node, interface or monitored service from an existing enterprise service.

opcharts-cli.pl act=migrate-business-service [name=A] [rename=B]
Creates an enterprise service from a business service, if the migrated name conflicts you can pass
'rename=example' to give the enterprise service a new name.

options:
info=true:  print informational output
debug=true: print diagnostic output
```

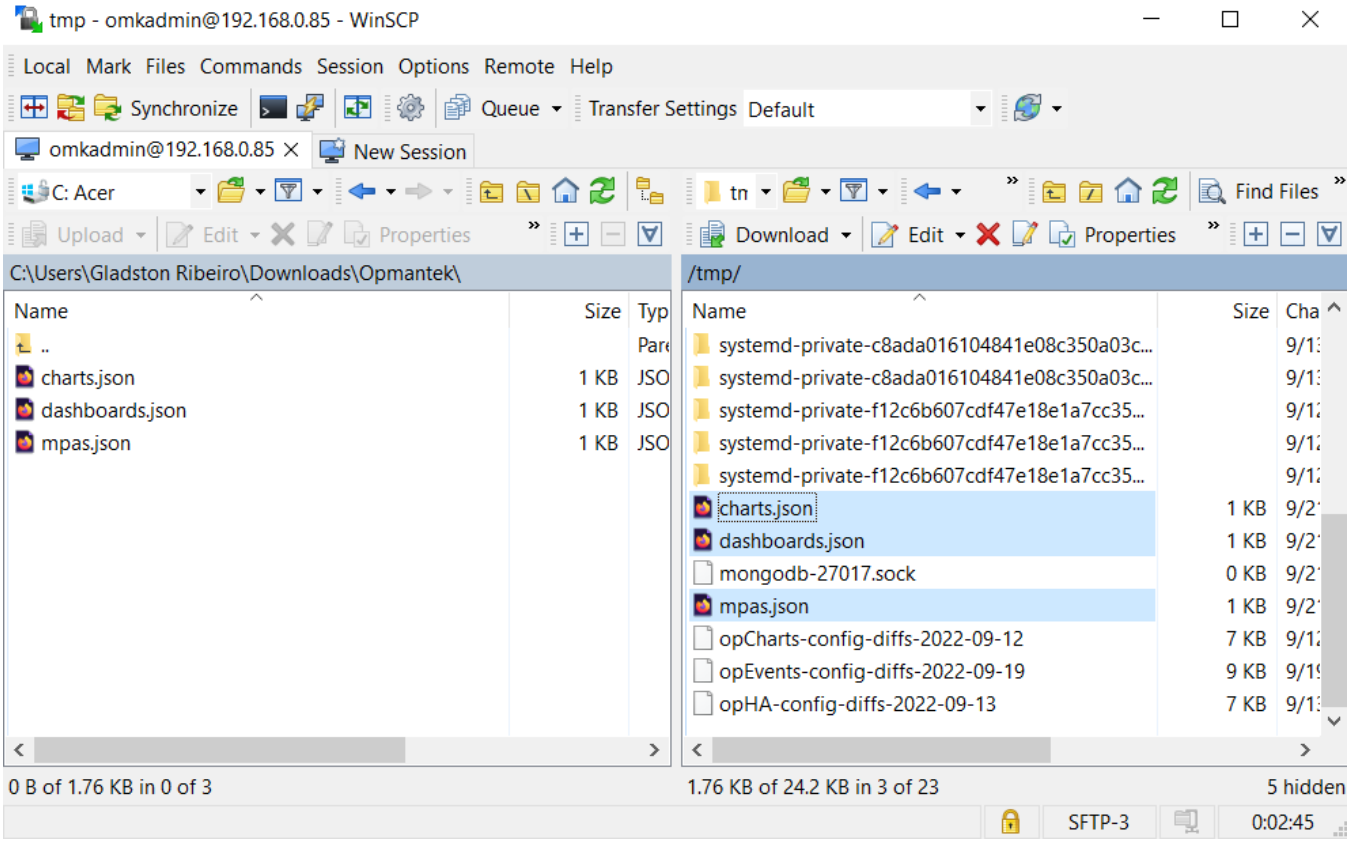
```
[omkadmin@omk-vm9-centos7 bin]$ ./opcharts-cli.pl
Usage: opcharts-cli.pl act=[action to take] [options...]

opcharts-cli.pl act=list-{charts|maps|dashboards|business|pollers|collectors|enterprise}

opcharts-cli.pl act=delete-{charts|maps|dashboards|business|pollers|collectors|enterprise} [name=A name=B...]

opcharts-cli.pl act=export-{charts|maps|dashboards|business|pollers|collectors|enterprise} [name=A name=B...] [file=path]
file: save JSON to file, otherwise printed to STDOUT.
name: list of resource names to export. defaults to all resources.

opcharts-cli.pl act=import-{charts|maps|dashboards|business|pollers|collector|enterprise} [name=A name=B...] [file=path] [force=true]
file: read JSON from file, otherwise read from STDIN
name: list of resource names to import. defaults to all resources.
force: if true will force the import to happen, replacing existing entries if they exist with the same name

opcharts-cli.pl act=import-subnets  [force=true]
caches the subnets

opcharts-cli.pl act=clear-subnets
clears the subnet cache

opcharts-cli.pl act=import-user-dashboard name=dashboard-name users='user1, user2, ...'
change the default dashboard for a list of users

opcharts-cli.pl act=clear-all-node-depend
clear all node depend (subnet)

opcharts-cli.pl act=update-subnet-dependency
Update all nodes dependencies

opcharts-cli.pl act=setup-db
Sets up opCharts required indexes for MongoDB

opcharts-cli.pl act=enrich-business-services
Enrich data for each business service to make fields sortable

opcharts-cli.pl act={add|delete}-enterprise-service-object name="Enterprise Service Name" [type=node|interface|monitored_service] [node_uuid=A] [index=1] [monitored_service_name=A]
Add or delete a node, interface or monitored service from an existing enterprise service.

opcharts-cli.pl act=migrate-business-service [name=A] [rename=B]
Creates an enterprise service from a business service, if the migrated name conflicts you can pass 'rename=example' to give the enterprise service a new name.

options:
info=true:  print informational output
debug=true: print diagnostic output


[omkadmin@omk-vm9-centos7 bin]$
```

Exporting dashboards, maps, and charts to a file (Export All Files)

```
/usr/local/omk/bin/opcharts-cli.pl act=export-maps  file=/tmp/maps.json
/usr/local/omk/bin/opcharts-cli.pl act=export-dashboards  file=/tmp/dashboards.json
/usr/local/omk/bin/opcharts-cli.pl act=export-charts  file=/tmp/charts.json
```

```
[omkadmin@omk-vm9-centos7 tmp]$
[omkadmin@omk-vm9-centos7 tmp]$ /usr/local/omk/bin/opcharts-cli.pl act=export-maps  file=/tmp/mpas.json
[omkadmin@omk-vm9-centos7 tmp]$ /usr/local/omk/bin/opcharts-cli.pl act=export-dashboards  file=/tmp/dashboards.json
[omkadmin@omk-vm9-centos7 tmp]$ /usr/local/omk/bin/opcharts-cli.pl act=export-charts  file=/tmp/charts.json
[omkadmin@omk-vm9-centos7 tmp]$ ll
total 104
-rw-rw-r--. 1 omkadmin omkadmin  935 Sep 21 17:27 charts.json
-rw-rw-r--. 1 omkadmin omkadmin  868 Sep 21 17:27 dashboards.json
srwx------. 1 mongod   mongod      0 Sep 21 08:51 mongodb-27017.sock
-rw-rw-r--. 1 omkadmin omkadmin    3 Sep 21 17:27 mpas.json
-rw-r--r--. 1 root     root     7087 Sep 12 18:02 opCharts-config-diffs-2022-09-12
-rw-r--r--. 1 root     root     8901 Sep 19 20:16 opEvents-config-diffs-2022-09-19
-rw-r--r--. 1 root     root     7087 Sep 13 16:39 opHA-config-diffs-2022-09-13
drwx------. 3 omkadmin omkadmin 4096 Sep 21 17:09 par-6f6d6b61646d696e
drwx------. 3 root     root     4096 Sep 19 14:17 systemd-private-3594b3fb910841399c406472fa07b160-chronyd.service-hDWp4R
drwx------. 3 root     root     4096 Sep 19 14:17 systemd-private-3594b3fb910841399c406472fa07b160-httpd.service-pM8oce
drwx------. 3 root     root     4096 Sep 19 14:17 systemd-private-3594b3fb910841399c406472fa07b160-mariadb.service-p790Xr
drwx------. 3 root     root     4096 Sep 15 08:36 systemd-private-5d90ed9431e84178946bc8229bf19b4c-chronyd.service-2h9itK
drwx------. 3 root     root     4096 Sep 15 08:36 systemd-private-5d90ed9431e84178946bc8229bf19b4c-httpd.service-1NQXOf
drwx------. 3 root     root     4096 Sep 15 08:36 systemd-private-5d90ed9431e84178946bc8229bf19b4c-mariadb.service-vZIS5y
drwx------. 3 root     root     4096 Sep 21 08:51 systemd-private-9bba2585af9d482688ff2d5ad5b956a1-chronyd.service-T8tYqq
drwx------. 3 root     root     4096 Sep 21 08:51 systemd-private-9bba2585af9d482688ff2d5ad5b956a1-httpd.service-5bitNA
drwx------. 3 root     root     4096 Sep 21 08:51 systemd-private-9bba2585af9d482688ff2d5ad5b956a1-mariadb.service-NNS3ZI
drwx------. 3 root     root     4096 Sep 13 10:27 systemd-private-c8ada016104841e08c350a03c5867afb-chronyd.service-A47XYO
drwx------. 3 root     root     4096 Sep 13 10:27 systemd-private-c8ada016104841e08c350a03c5867afb-httpd.service-jcjYWT
drwx------. 3 root     root     4096 Sep 13 10:27 systemd-private-c8ada016104841e08c350a03c5867afb-mariadb.service-bp2Zkt
drwx------. 3 root     root     4096 Sep 12 10:47 systemd-private-f12c6b607cdf47e18e1a7cc35491eb49-chronyd.service-zNLRT4
drwx------. 3 root     root     4096 Sep 12 10:47 systemd-private-f12c6b607cdf47e18e1a7cc35491eb49-httpd.service-8IQnr5
drwx------. 3 root     root     4096 Sep 12 10:47 systemd-private-f12c6b607cdf47e18e1a7cc35491eb49-mariadb.service-kc208I
[omkadmin@omk-vm9-centos7 tmp]$
```

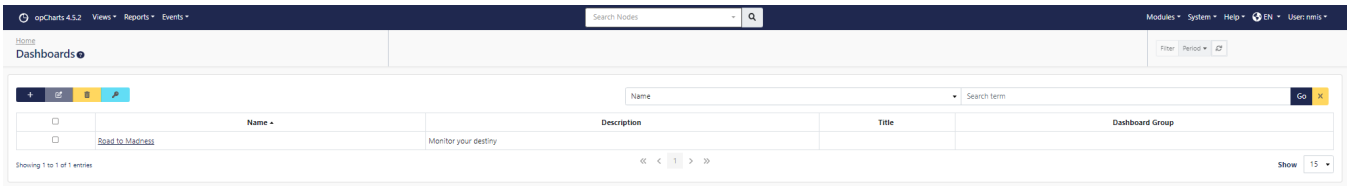
You can then either use a SFTP application of choice to download these from the NMIS server to your local machine, or use SCP to copy direct from the CLI.



If you only require exporting a single view, you can instead add the name=My_Dashboard argument to the command:

```
/usr/local/omk/bin/opcharts-cli.pl act=export-dashboards name=My_Dashboard file=/tmp/my_dashboard.json
```

Importing dashboards, maps, and charts from a file

```
/usr/local/omk/bin/opcharts-cli.pl act=import-maps  file=/tmp/mpas.json
/usr/local/omk/bin/opcharts-cli.pl act=import-dashboards  file=/tmp/dashboards.json
/usr/local/omk/bin/opcharts-cli.pl act=import-charts  file=/tmp/charts.json
```

After you import the dashboards/charts/maps this will then be displayed in the relevant section of the opCharts GUI.