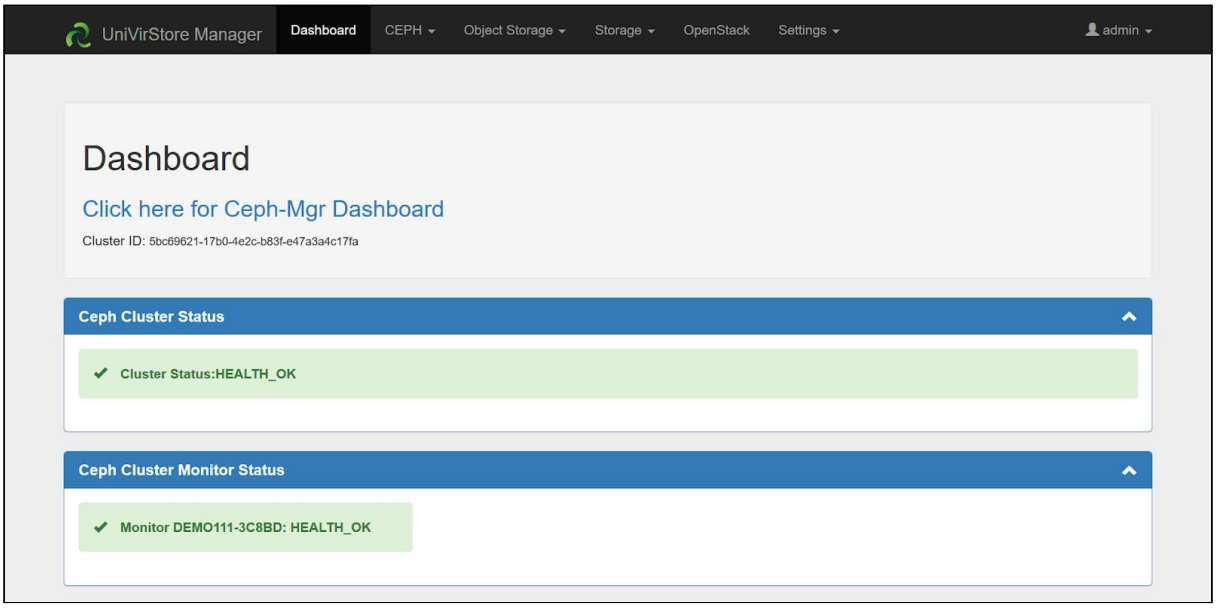
Enable Ceph Zabbix Plugin on Ambedded Mars400

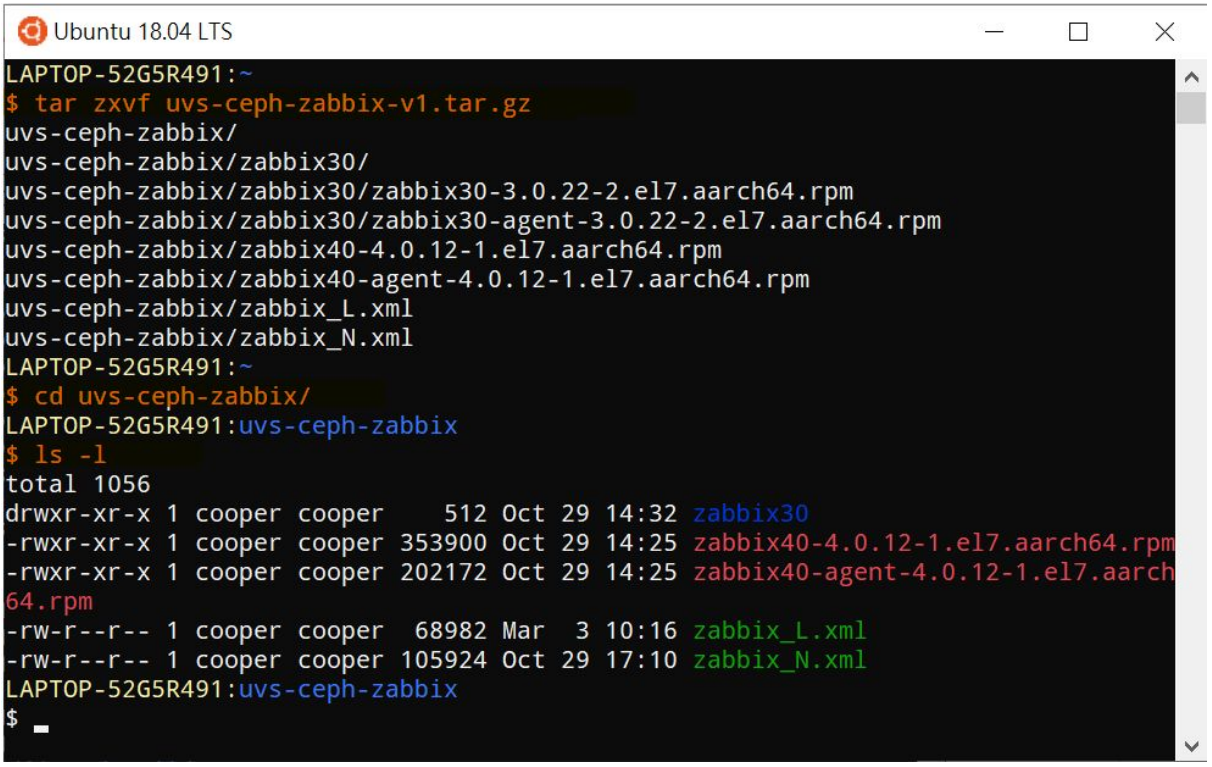
(Applicable for UVS Manager 2.12.15)

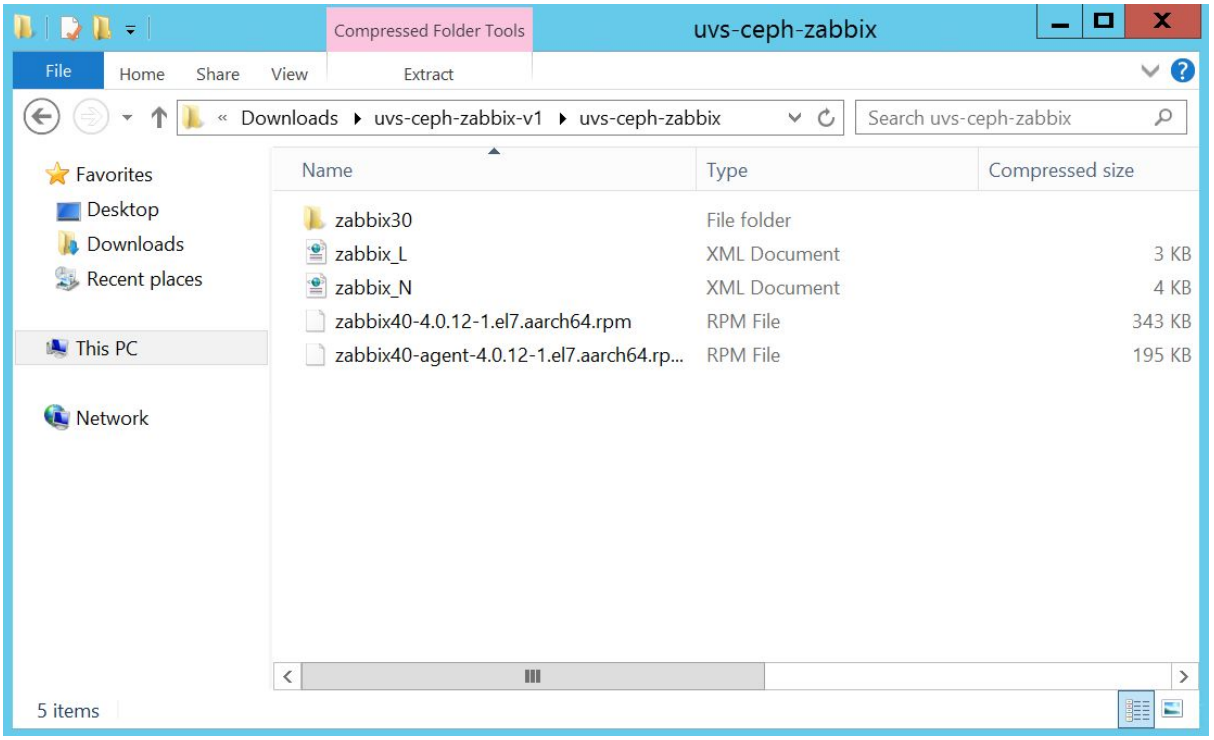
Install Zabbix Sender on Mars400

1. Make sure your PC could connect to the UVS web page.

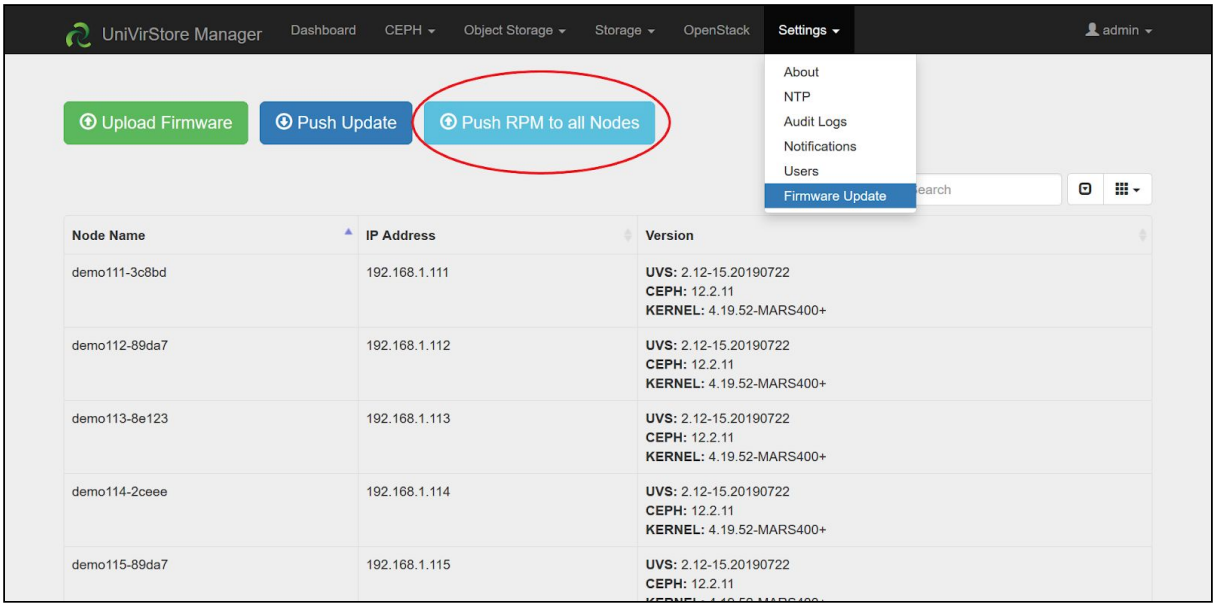


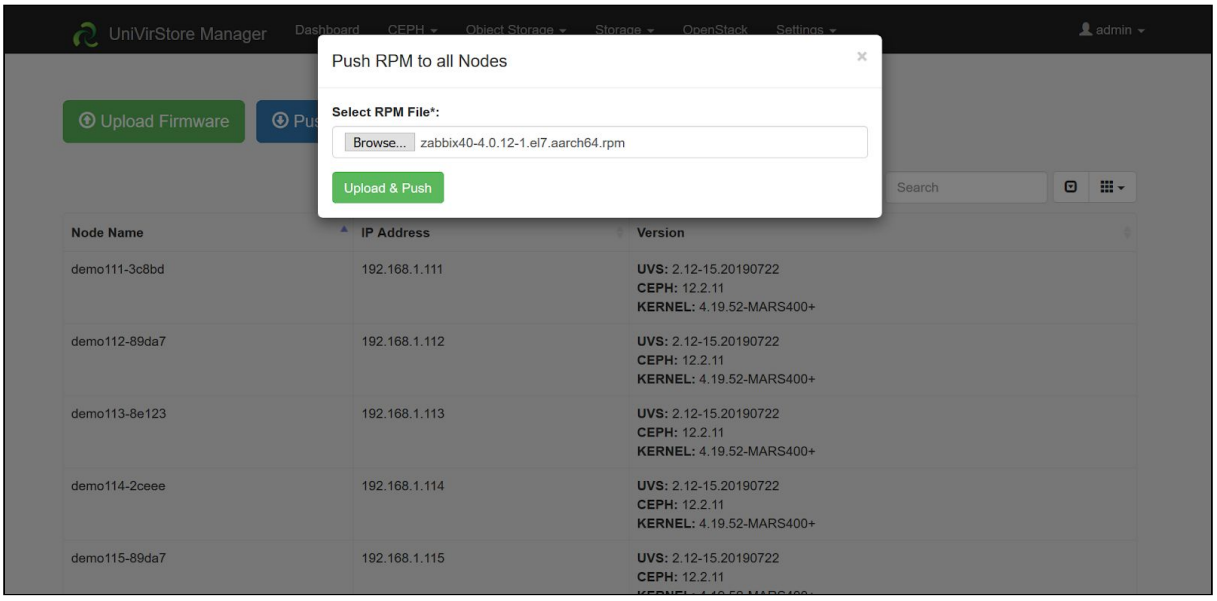
2. Untar "**uvs-ceph-zabbix-v1.tar.gz**" or unzip "**uvs-ceph-zabbix-v1.zip**" and you'll see **rpms** to zabbix & **template** to zabbix server.

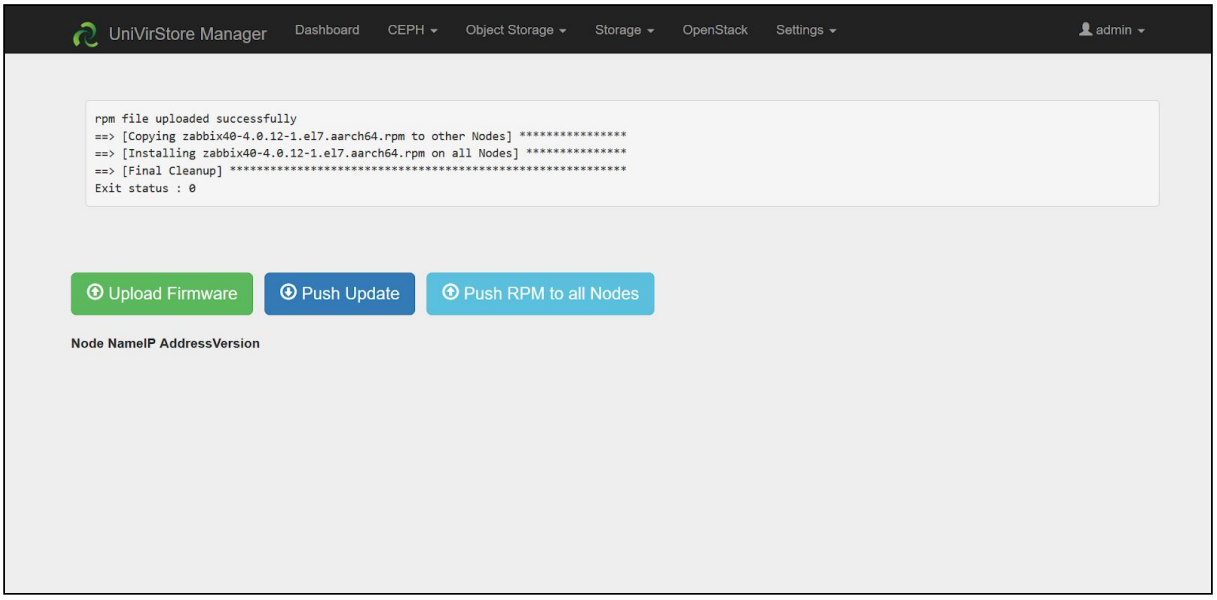




3. Go to UVS web > Settings menu > Firmware Update page. Push zabbix40 rpms. (**zabbix40-4.0.12-1.el7.aarch64.rpm** & **zabbix40-agent-4.0.12-1.el7.aarch64.rpm**)

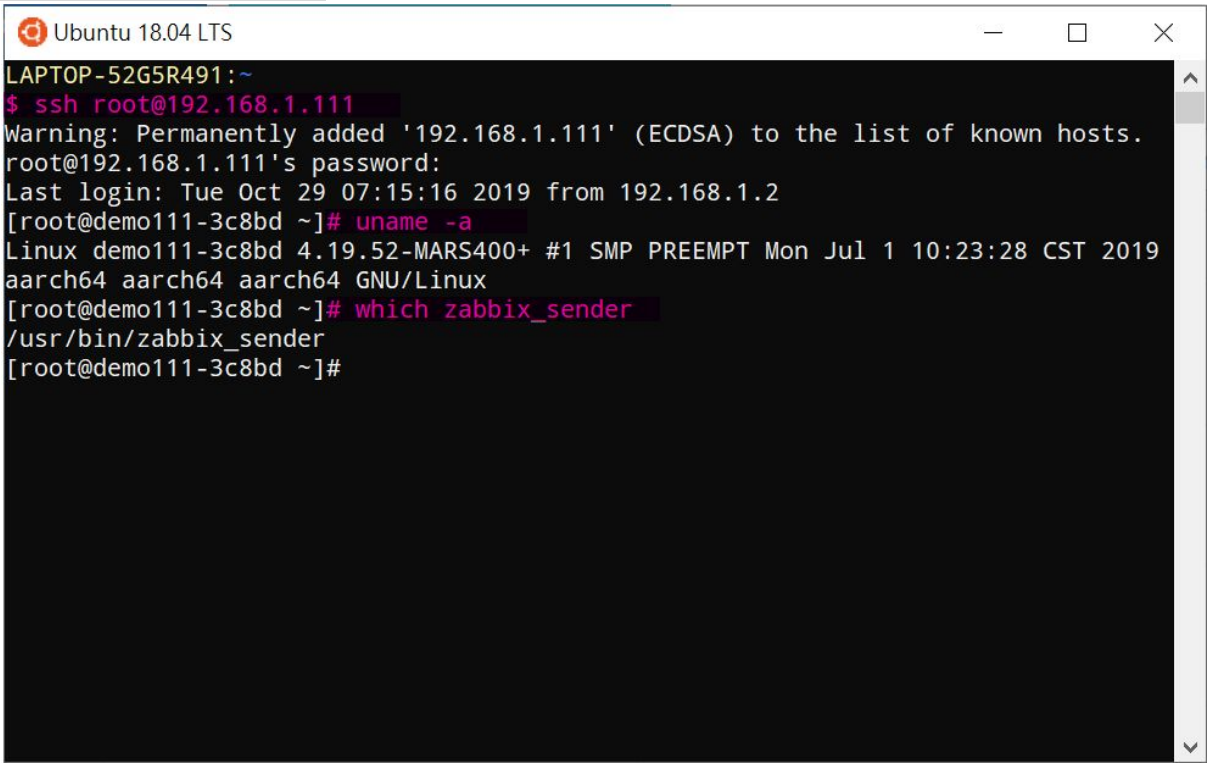

UniVirStore Manager
Dashboard
CEPH
Object Storage
Storage
OpenStack
Settings
admin
About
NTP
Audit Logs
Notifications
Users
Firmware Update
Upload Firmware
Push Update
Push RPM to all Nodes
Node Name
IP Address
Version
demo111-3c8bd
192.168.1.111
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo112-89da7
192.168.1.112
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo113-8e123
192.168.1.113
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo114-2ceee
192.168.1.114
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo115-89da7
192.168.1.115
UVS: 2.12-15.20190722
CEPH: 12.2.11


UniVirStore Manager
admin
Push RPM to all Nodes
Select RPM File*:
Browse...
zabbix40-4.0.12-1.el7.aarch64.rpm
Upload & Push
Upload Firmware
Search
Node Name
IP Address
Version
demo111-3c8bd
192.168.1.111
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo112-89da7
192.168.1.112
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo113-8e123
192.168.1.113
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo114-2ceee
192.168.1.114
UVS: 2.12-15.20190722
CEPH: 12.2.11
KERNEL: 4.19.52-MARS400+
demo115-89da7
192.168.1.115
UVS: 2.12-15.20190722
CEPH: 12.2.11


UniVirStore Manager
Dashboard
CEPH
Object Storage
Storage
OpenStack
Settings
admin
rpm file uploaded successfully
==> [Copying zabbix40-4.0.12-1.el7.aarch64.rpm to other Nodes] **********
==> [Installing zabbix40-4.0.12-1.el7.aarch64.rpm on all Nodes] **********
==> [Final Cleanup] **
Exit status : 0
Upload Firmware
Push Update
Push RPM to all Nodes
Node NameIP AddressVersion

4. After pushed two zabbix40 rpms, ssh login to Mars400 Ceph monitor node and check “**zabbix_sender**” command.

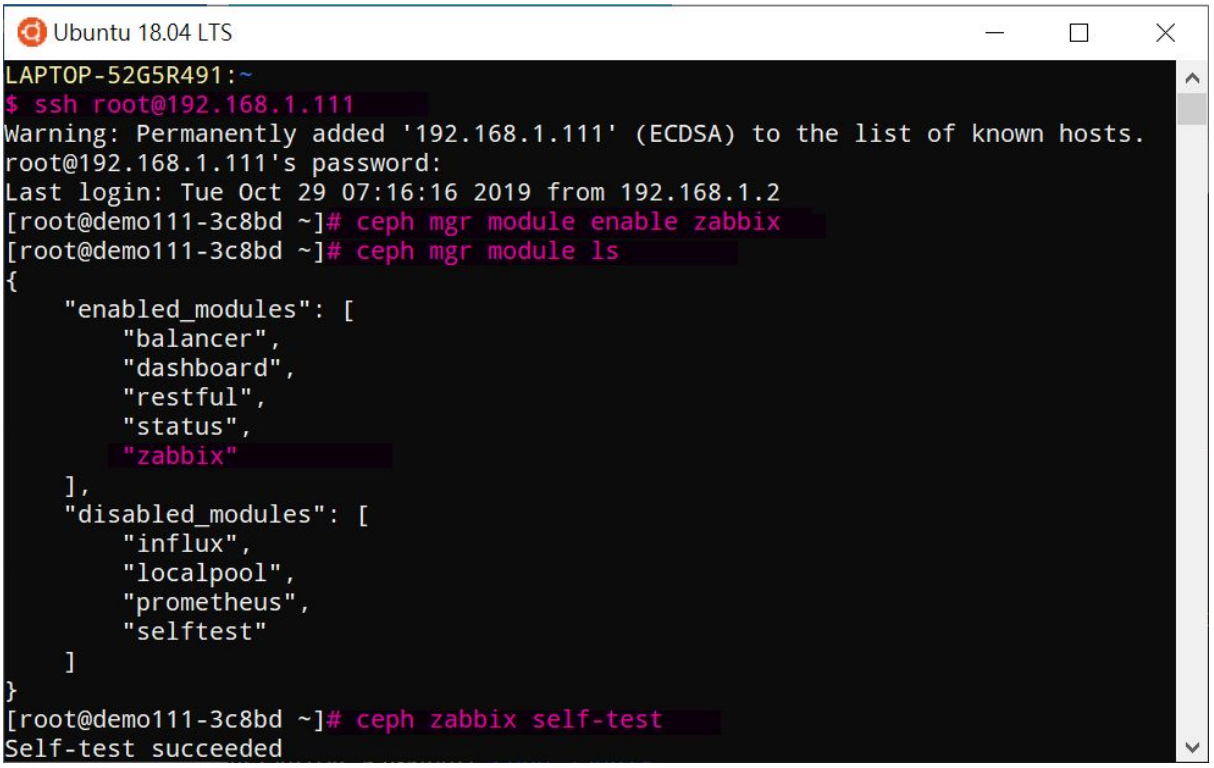
```
$ ssh root@${Mars400_Ceph_Monitor_Node_IP}
# uname -a
# which zabbix_sender
```



Enable & Configure Ceph Zabbix Plugin

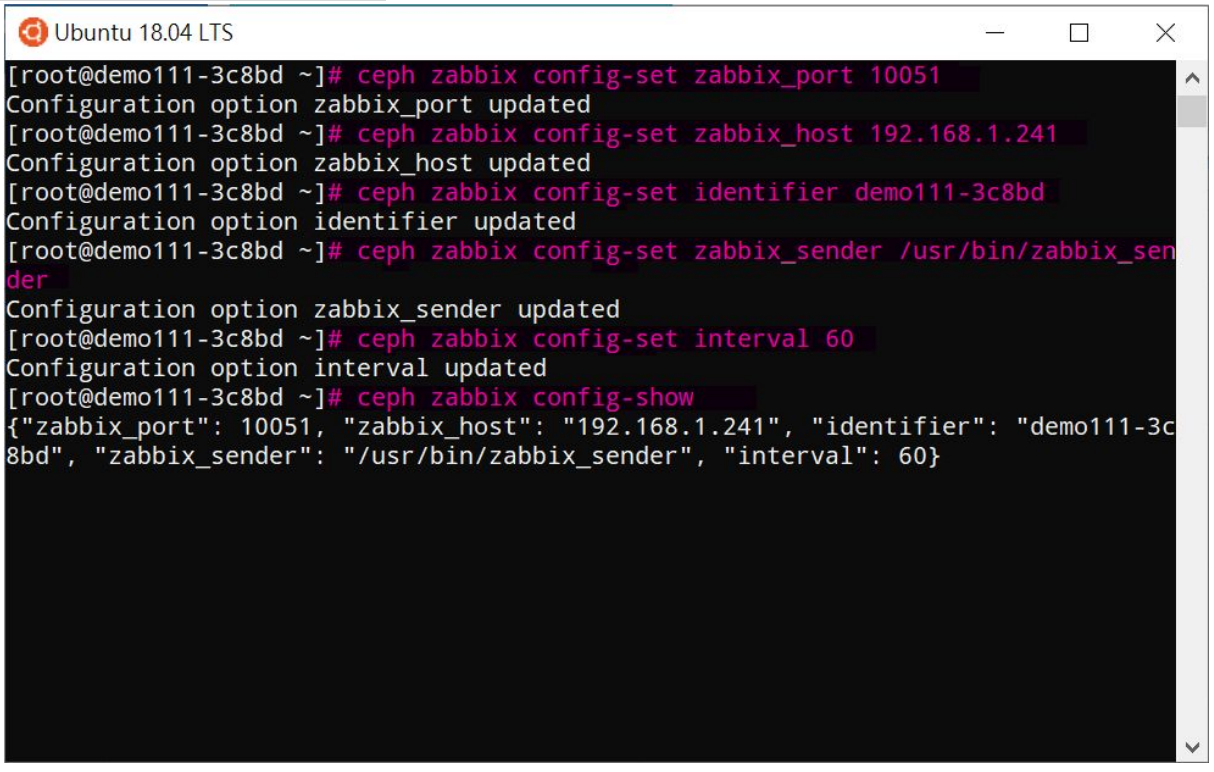
1. Let’s ssh login to Mars400 Ceph monitor node and **enable** Ceph Zabbix.

```
$ ssh root@${Mars400_Ceph_Monitor_Node_IP}
# ceph mgr module enable zabbix
# ceph mgr module ls
# ceph zabbix self-test
```



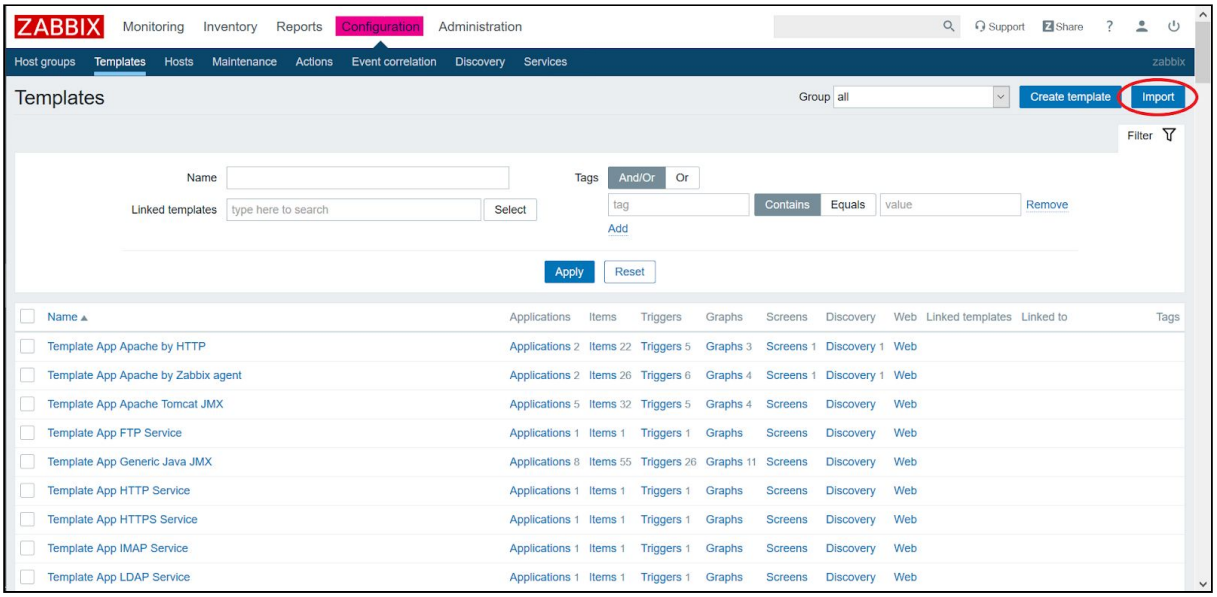
2. Configure **Zabbix Server Name** & **Zabbix Client Identifier**.

```
# ceph zabbix config-set zabbix_port 10051
# ceph zabbix config-set zabbix_host 192.168.1.241
# ceph zabbix config-set identifier demo111-3c8bd
# ceph zabbix config-set zabbix_sender /usr/bin/zabbix_sender
# ceph zabbix config-set interval 60
# ceph zabbix config-show
```

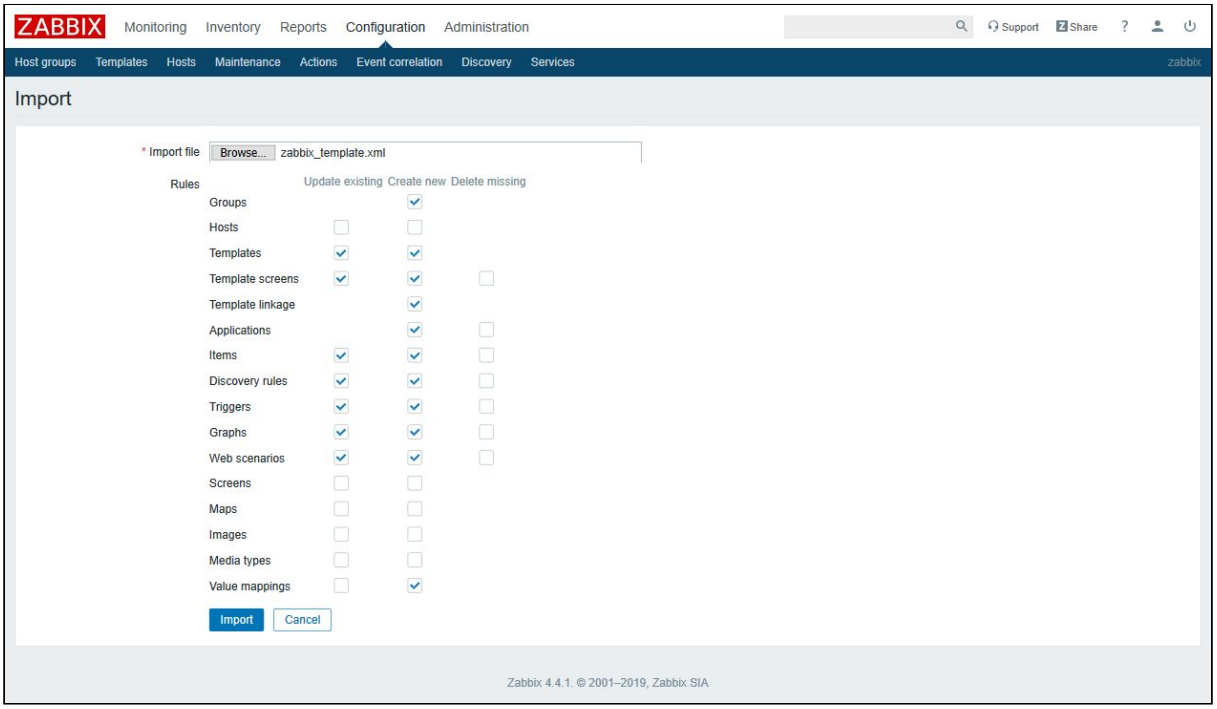


Import Ceph Templates and Add Ceph Host to Zabbix Server

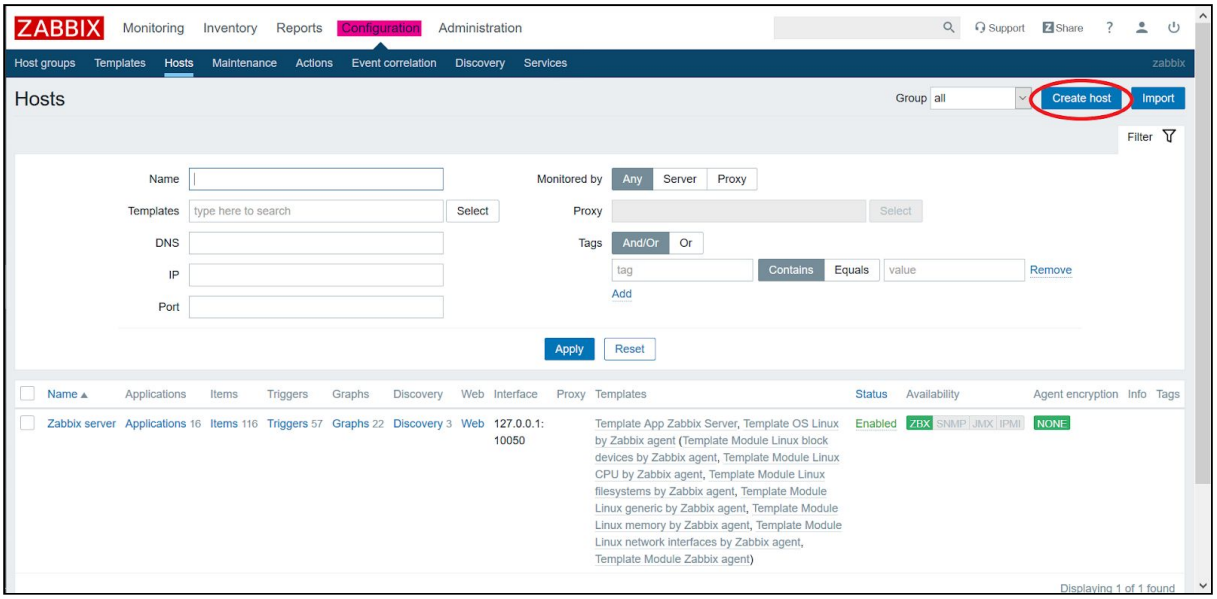
1. Go to your Zabbix Server web > Configuration menu > Templates page > Import button

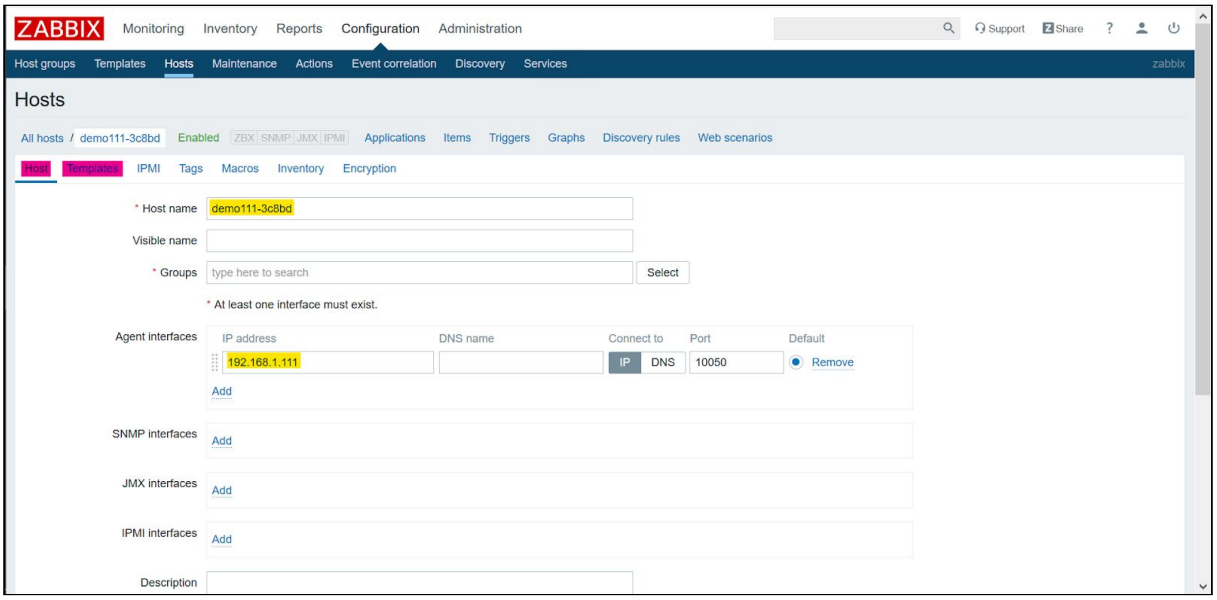


2. Import "**zabbix_L.xml**" which can find in the "**ceph-zabbix.tar.gz**".

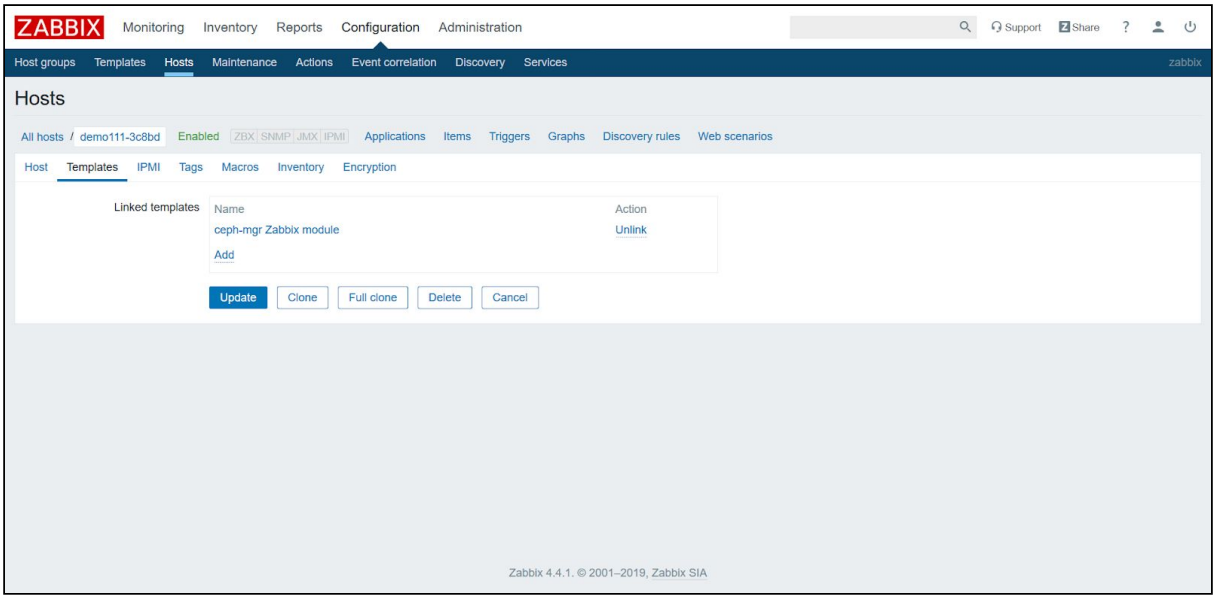


3. Go to your Zabbix Server web > Configuration menu > Hosts page > Create host button. Create a **new hosts** that related to your **Mars400 Ceph monitor name** and **IP**.

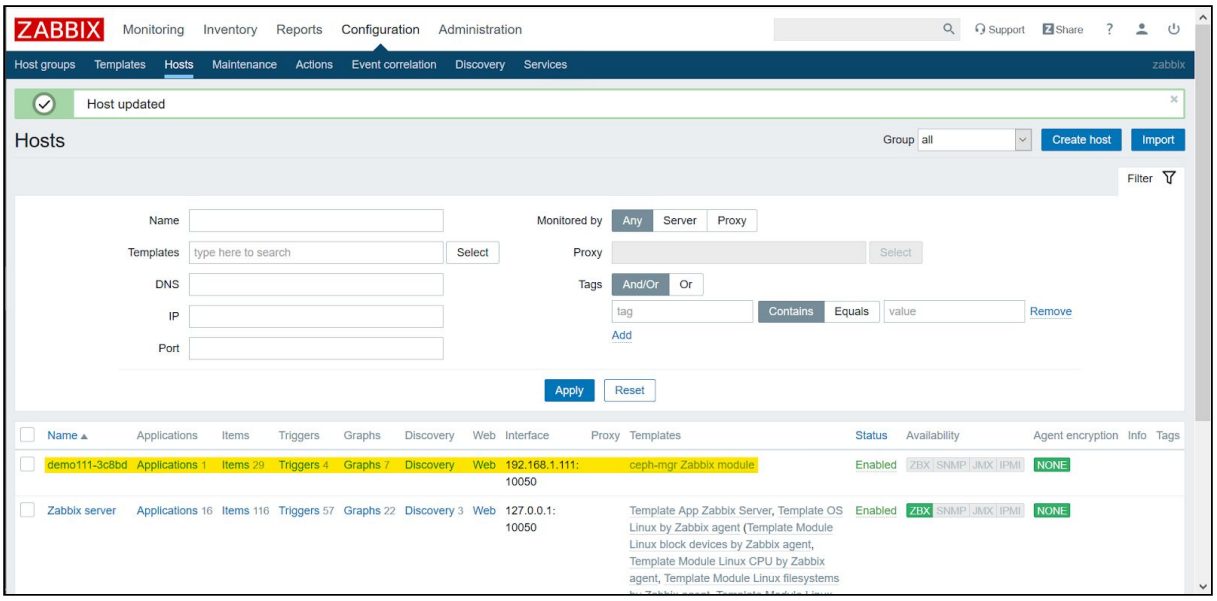




4. Add **ceph-mgr Zabbix module** for the same Hosts page.



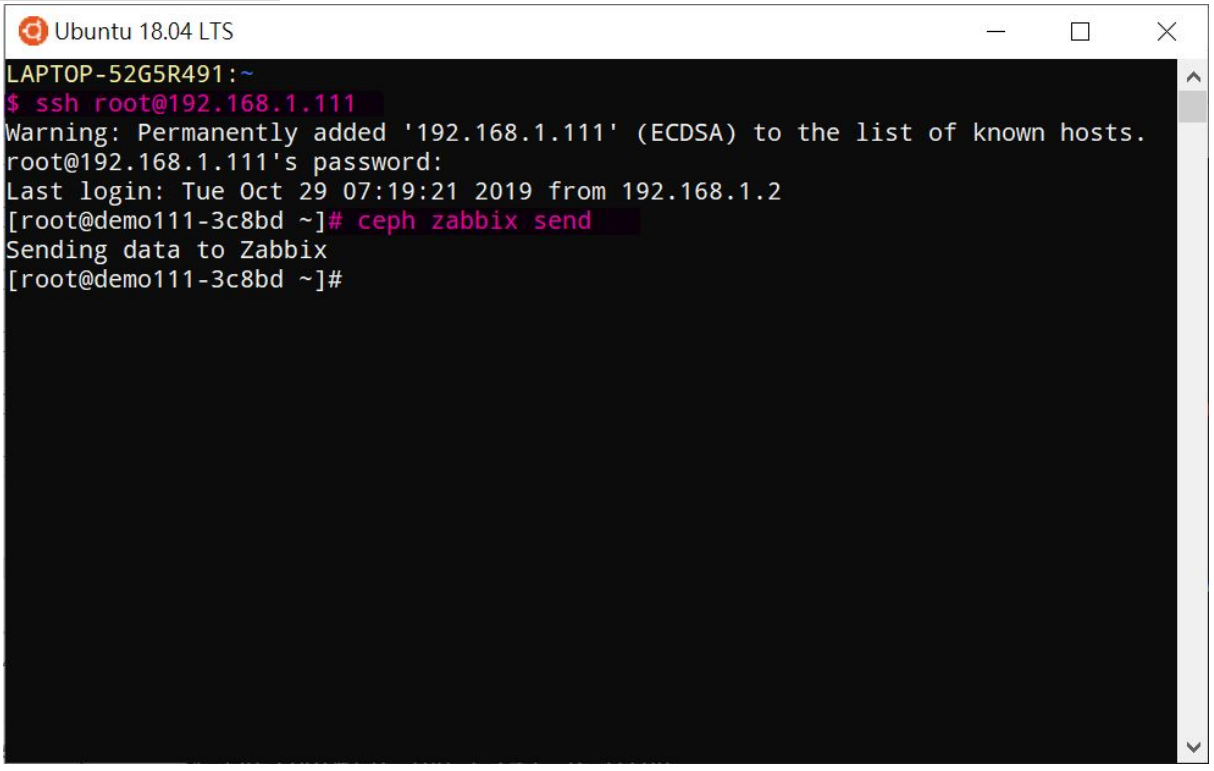
5. The new Zabbix host for Mars400 Ceph is ready.



Send Ceph Status to Zabbix Server

Go back to Mars400 Ceph monitor node and try to send Zabbix Data manually.

```
$ ssh root@${Mars400_Ceph_Monitor_Node_IP}
# ceph zabbix send
```



Check Ceph Zabbix Data

Go to your Zabbix Server web > Monitoring menu > Graphs page. The Ceph Zabbix Data is avaliable now.