

Install OMD (Debian/Ubuntu) as of (06/01/2020)

Server:-

Download & Install check_mk raw:-

ping google.com

sudo apt update

sudo apt upgrade

sudo apt install ifupdown net-tools vim htop mtr arping gdebi-core wget traceroute snmpd telnet dsh -y

wget https://checkmk.com/support/1.6.0p7/check-mk-raw-1.6.0p7_0.bionic_amd64.deb

// (always get the latest stable version from the website:- https://checkmk.com/download.php) //

sudo gdebi check-mk-raw-1.6.0p7_0.bionic_amd64.deb

sudo omd create nmssite1 // This omd command will provide the URL, username and password

sudo omd start nmssite1

// Firewall Entry if you have any to secure the server //

iptables -A INPUT -p tcp --dport 6556 -s X.X.X.X -j ACCEPT

iptables -A INPUT -p tcp --dport 6556 -j DROP

// Web Interface //

Access the web interface at the provided URL then:

http://172.16.108.xx/nmssite1

Change Admin password:

- On the Left WATO menu choose 'Users'
- Choose the pencil 'Properties' icon beside the cmkadmin user
- Enter a new password under the authentication section
- Click 'Save'

```
// Install the Agent on a Server //
To check a server install the agent e.g.

#http://172.16.108.xx@mssite1/check\_mk/agents/

sudo apt install check-mk-agent xinetd      // you would get the older version

vim /etc/xinetd.d/check_mk

service check_mk
{
    type           = UNLISTED
    port           = 6556
    socket_type    = stream
    protocol       = tcp
    wait           = no
    user           = root
    server         = /usr/bin/check_mk_agent

    # configure the IP address(es) of your Nagios server here:
    only_from      = 127.0.0.1 172.16.108.0/24
    log_on_success =

    disable        = no
}

// Then restart xinetd: //

systemctl restart xinetd
netstat -tulp | grep 6556
```

```
// Go back to the Check_mk monitoring server and from the WATO menu choose ( Hosts > Create ) //
```

Add the server name and IP address and choose '(Save & Test)'.

```
// You can test that check_mk agent is responding using telnet from the monitoring server e.g. //
```

```
sudo telnet 172.16.108.xx 6556
```

```
https://www.cybrary.it/0p3n/basics-check\_mk-monitoring-system/
```

```
#The services can be grouped (e.g. by type, functions or services).
```

```
#- WATO → Host & Service Groups → Service groups (if in Host groups)
```

```
# → (1.2.4 or early systems: Service Groups): - New service group:
```

```
# Or - Select to the group! → Properties:
```

```
#- Name: Name of group - Alias: Alias of group
```

```
#nm- Save - X Changes → Activate Changes!
```

```
#- WATO → Host & Service Parameters → Grouping → Assignment of services to service groups:
```

```
#- Create rule in folder: Or - To select a rule! → Edit this rule: - Explicit hosts: Select,
```

```
# and enter names of hosts! - Services: Select, and enter names of services!
```

```
# - Assignment of services to service groups: Select to the service groups!
```

```
# - Save - X Changes → Activate Changes!
```

```
#The created service groups are in the View → Service Groups menu.
```

OBSERVIVUM-LAB

```
sudo netstat -tulpn
```

```
sudo systemctl restart apache2
```

```
sudo vim /etc/apache2/sites-enabled/000-  
default.conf // change port 80 to 8080
```

```
sudo vim /etc/apache2/  
ports.conf // change port 80 to  
8080 and add port 8081
```

```
# If you just change the port or add more ports here,  
you will likely also
```

```
# have to change the VirtualHost statement in  
# /etc/apache2/sites-enabled/000-default.conf
```

```
Listen 8080
```

```
Listen 8081
```

```
<IfModule ssl_module>
```

```
    Listen 433
```

```
</IfModule>
```

```
<IfModule mod_gnutls.c>
```

```
    Listen 433
```

```
</IfModule>
```

```
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

```
sudo systemctl restart apache2
```

```
netstat -tulpn
```

```
sudo apt update
```

```
sudo apt install libapache2-mod-php php-cli php-mysql  
php-mysqli php-gd php-json php-pear \  
snmp fping mysql-server mysql-client python-mysqldb  
rrdtool subversion whois mtr-tiny \  
ipmitool graphviz imagemagick apache2
```

```
// Set MySQL Password if asked after running above  
command
```

```
mkdir -p /opt/observium && cd /opt
```

```
wget http://www.observium.org/observium-community-  
latest.tar.gz
```

```
tar zxvf observium-community-latest.tar.gz
```

```
sudo mysql -u root -p // Set the MySQL info as  
follows;
```

```
mysql > CREATE DATABASE observium;
```

```
mysql > CREATE USER observiumadmin@localhost IDENTIFIED  
BY 'bdnog11cox';
```

```
mysql > GRANT ALL PRIVILEGES ON observium.* TO  
observiumadmin@localhost;
```

```
mysql > FLUSH PRIVILEGES;
```

```
mysql > exit;
```

```
cd /opt/observium
```

```
cp config.php.default config.php
```

```
sudo vim /opt/observium/config.php
```

```
$config['db_host'] = 'localhost';
```

```
$config['db_user'] = 'observiumadmin';
```

```
$config['db_pass'] = 'bdnog11cox';
```

```
$config['db_name'] = 'observium';
```

```
sudo ./discovery.php -u          // to initialize update  
the database;
```

```
mkdir logs
```

```
mkdir rrd
```

```
chown www-data:www-data rrd
```

```
sudo vim /etc/apache2/sites-available/observium.conf
```

```
<VirtualHost *:8081>  
    ServerAdmin webmaster@localhost  
    DocumentRoot /opt/observium/html  
    <FilesMatch \.php$>  
        SetHandler application/x-httpd-php  
    </FilesMatch>  
    <Directory />  
        Options FollowSymLinks  
        AllowOverride None  
    </Directory>  
    <Directory /opt/observium/html/>  
        DirectoryIndex index.php  
        Options Indexes FollowSymLinks MultiViews  
        AllowOverride All  
        Require all granted  
    </Directory>  
    ErrorLog  ${APACHE_LOG_DIR}/observium_error.log  
    LogLevel warn  
    CustomLog  ${APACHE_LOG_DIR}/observium_access.log  
    combined  
    ServerSignature On  
</VirtualHost>
```

```
sudo systemctl restart apache2
```

```
/etc/init.d/apache2 restart
```

```
sudo a2dismod mpm_event
```

```
sudo a2enmod mpm_prefork
```

```
sudo a2enmod rewrite
```

```
a2ensite observium.conf
```

```
sudo systemctl restart apache2
```

```
sudo ./adduser.php admin bdnog11cox 10
```

```
sudo vim /etc/cron.d/observium
```

```
# Run a complete discovery of all devices once every 6  
hours
```

```
33 */6 * * * root /opt/observium/discovery.php -  
h all >> /dev/null 2>&1
```

```
# Run automated discovery of newly added devices every  
5 minutes
```

```
*/5 * * * * root /opt/observium/discovery.php -  
h new >> /dev/null 2>&1
```

```
# Run multithreaded poller wrapper every 5 minutes
```

```
*/5 * * * * root /opt/observium/poller-  
wrapper.py >> /dev/null 2>&1
```

```
# Run housekeeping script daily for syslog, eventlog  
and alert log
```

```
13 5 * * * root /opt/observium/housekeeping.php -ysel  
>> /dev/null 2>&1
```

```
# Run housekeeping script daily for rrd, ports,
```

```
orphaned entries in the database and performance data
47 4 * * * root /opt/observium/housekeeping.php -yrptb
>> /dev/null 2>&1
```

```
sudo vim includes/defaults.inc.php // line
485 ... remove map
$config['frontpage']['order'] =
array('status_summary', 'device_status_boxes',
'device_status', 'eventlog');
```

```
// SNMP Configuration //
```

```
cd /etc/snmp/
cp snmpd.conf snmpd.conf.orig
echo "" > snmpd.conf
```

```
sudo vim snmpd.conf
```

```
com2sec local localhost public
com2sec mynetwork 172.16.108.0/24 public
com2sec mynetwork 172.16.208.0/24 public
group MyRWGroup v1 local
group MyRWGroup v2c local
group MyROGroup v1 mynetwork
group MyROGroup v2c mynetwork
view all included .1 80
access MyROGroup "" any noauth exact
all none none
access MyRWGroup "" any noauth exact
all all none
syslocation COXBAZAR
syscontact omnitechone@gmail.com
extend .1.3.6.1.4.1.2021.7890.1 distro /usr/bin/distro
```



```
cp observium/scripts/distro /usr/bin/distro
sudo /etc/init.d/snmpd restart
```

```
sudo snmpwalk -v 2c -c public 127.0.0.1
```

```
sudo vim /etc/hosts // make host entry, also
you can local unbound dns
```

```
172.16.108.70 bdnog11linux00
```

```
ping bdnog11linux00
cd /opt/observium
```

```
sudo ./add_device.php bdnog11linux00 public v2c
sudo ./discovery.php -h bdnog11linux00
sudo ./poller.php -h bdnog11linux00
```

```
sudo ./discovery.php -h bdnog11linux00
sudo ./poller.php -h bdnog11linux00
```

```
cd scripts/
scp -P 1122 distro root@172.16.108.71:/usr/
bin/ // For a remote host
```