

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.
```

```
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;

<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>
```

```
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
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
```