**Xymon Ubuntu Server setup**

**Assumptions:**

1. You have all ports open In & Out on your AWS Security Group for the Xymon server. You can tighten it up later after you get things working. Ports you’ll definitely need open are 22, 80, 1984.
2. You have configured a Private IP/Elastic IP for your Xymon server on AWS. You don’t want the IP changing when you reboot. HUGE HEADACHE IF YOU USE DHCP!! VERY IMPORTANT!!
3. You have assigned a subdomain name to this Xymon static IP with our domain host.
4. You’ve installed the latest Ubuntu linux and can log into it via SSH.
5. I run as root. I know it’s suggested not to do that but that’s how I role. The xymon install will automatically add a xymon user.

> SSH Command Line

To run commands as root.

#sudo bash

Fix time zone

 #dpkg-reconfigure tzdata

Add ubuntu user to root group

 #adduser ubuntu root

Update OS

 #sudo bash

 #pico /etc/apt/sources.list (uncomment the 4 optional lines at the very bottom of the file)

 #apt-get update

 #apt-get dist-upgrade

 #apt-get update

 #apt-get upgrade

 #updatedb

Install Essential Server stuff

 #apt-get install build-essential

 #gcc -v

 #make -v

Install some other stuff Xymon will need

 #apt-get install apache2 rrdtool librrd-dev libpcre3-dev libssl-dev ldap-utils libldap2-dev fping nmap php5 libapache2-mod-php5 libc-ares-dev

To install sendmail (FYI-changing server hostnames will break sendmail)

 #hostname (make sure this is what you want before installing sendmail

 #apt-get install mailutils sendmail

 #sendmailconfig

 use existing sendmail.conf: Y

 use existing sendmail.mc: N

 Mail name: yourdomainhere.com (whatever your domain name is)

 Null client: blank

 Smart host: blank

 Disable canon: N

 Masquerade: Y

 All masquerade: N

 Don’t masq local: Y

 Always add domain: N

 Accept mail for yourdomainname.com: N

 Alternate name: localhost xymon

 Trusted users: xymon ubuntu

 Enable redirect: N

 Enable UUCP: Y

 Enable sticky host: N

 Enable DNS: Y

 Assume best MX local: N

 Enable mailertable: N

 Sendmail Restricted Shell: N

 Message timeouts: 4h/5d

 Reload with new config: Y

 Can check if sendmail is sending emails

 #mail you@yourdomainname.com [Enter]

 (Ctrl+d to send)

Enable required Apache modules. Without these the drilldown pages don’t work.

 #cd /etc/apache2/mods-enabled/

 #ln -s ../mods-available/rewrite.load . (yes enter the period at the end)

 #ln -s ../mods-available/cgid.load . (yes enter the period at the end)

 #/etc/init.d/apache2 reload

Download Xymon files to server. Get download link from <http://sourceforge.net/projects/xymon/>

 #cd /var

 #mkdir install

#cd install

 #wget http://download-path

Rename the file's crazy pathname to what it's supposed to be.

 #mv xymon~~ xymon-4.3.17.tar.gz

Unpack and Install it

 #tar zxf xymon-4.3.17.tar.gz (unzips and adds a xymon-4.3.17 folder)

 #cd xymon-4.3.17

 #./build/makedeb.sh 4.3.17 (this does crazy code and may take a while)

 #cd debbuild/

 #dpkg -i xymon\*deb (this sets your server’s IP in all the appropriate files)

**NOTE: xymon installs into the /usr/lib/xymon/ directory. All the stuff in your /var/install/ directory is just for install purposes. Do not assume that the files in /var are the active files.**

Edit your apache2 config

(sample lines found in /home/xymon/server/etc/xymon-apache.conf are wrong, here’s the correct stuff)

 #cd /etc/apache2/

 #pico apache2.conf

 Edit the following lines for sure, then add the xymon stuff at the end of the file

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 <Directory />

 Options FollowSymLinks

 AllowOverride All

 Require all granted

</Directory>

<Directory /usr/share>

 AllowOverride All

 Require all granted

</Directory>

<Directory /var/www/>

 Options Indexes FollowSymLinks

 AllowOverride All

 Require all granted

</Directory>

AccessFileName .htaccess

<FilesMatch "^\.ht">

 Require all granted

</FilesMatch>

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#################################################################

## The following is for Xymon web aliases to function properly ##

#################################################################

Alias /xymon/ "/usr/lib/xymon/server/www/"

<Directory "/usr/lib/xymon/server/www">

 AllowOverride All

 Options Indexes FollowSymLinks Includes MultiViews

 Require all granted

</Directory>

ScriptAlias /xymon-cgi/ "/usr/lib/xymon/cgi-bin/"

<Directory "/usr/lib/xymon/cgi-bin">

 AllowOverride All

 Options ExecCGI Includes

 Require all granted

</Directory>

ScriptAlias /xymon-seccgi/ "/usr/lib/xymon/cgi-secure/"

<Directory "/usr/lib/xymon/cgi-secure">

 AllowOverride All

 Options ExecCGI Includes

 Require all granted

</Directory>

#######################################################

Restart apache2 to see if there are errors

 #service apache2 restart

Edit apache2 000-default.conf

 #cd /etc/apache2/sites-enabled/

 #pico 000-default.conf

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 <VirtualHost \*:80>

 ServerAdmin webmaster@localhost

 DocumentRoot /var/www

 <Directory />

 Options FollowSymLinks

 AllowOverride All

 </Directory>

 <Directory /var/www/>

 Options Indexes FollowSymLinks MultiViews

 AllowOverride All

 Order allow,deny

 allow from all

 </Directory>

 ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/

 <Directory "/usr/lib/cgi-bin">

 AllowOverride All

 Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch

 Order allow,deny

 Allow from all

 </Directory>

 ErrorLog ${APACHE\_LOG\_DIR}/error.log

 # Possible values include: debug, info, notice, warn, error, crit,

 # alert, emerg.

 LogLevel warn

 CustomLog ${APACHE\_LOG\_DIR}/access.log combined

</VirtualHost>

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Restart apache2 to see if there are errors

 #service apache2 restart

Make symbolic links to working folders to make edits easier

 #cd /home/user/ (use your username, obviously)

 #ln -s /usr/lib/xymon/server xymon-server

 #ln -s /usr/lib/xymon/server/etc/hosts.cfg hosts

 #ln -s /usr/lib/xymon/server/etc/alerts.cfg alerts

Edit xymon hostname file (needs to match what you have in hosts.cfg file)

 #pico /etc/default/xymon-client

 XYMONSERVERS=”192.168.1.250”

 CLIENTHOSTNAME=”xymon.yourdomainname.com”

**NOTE!! Make sure the servers hostname settings are correct in the above 3 files. FQDN works best here. You may not receive alert emails if the hostname settings are wrong. Always check your Spam folders for the emails too. >:(**

Start xymon

 #service xymon start

 or

 #service xymon restart

Wait 5-10 minutes before you assume it’s not working.

Check webpage (make sure you use a trailing slash otherwise you might mistakenly think it doesn’t work)

 http://xymon.yourdomainname.com/xymon/