

# How to install nagios for Ubuntu 16.04 LTS

```
$ sudo apt-get install wget build-essential apache2 php apache2-mod-php7.0 php-gd libgd-dev sendmail unzip
```

## User and group configuration

**For Nagios to run, you have to create a new user for Nagios. We will name the user "nagios" and additionally create a group named "nagcmd".**

**We add the new user to the group as shown below:**

```
sudo useradd nagios
sudo groupadd nagcmd
sudo usermod -a -G nagcmd nagios
sudo usermod -a -G nagios,nagcmd www-data
```

## Installing Nagios

### Step 1 - Download and extract the Nagios core

```
cd ~
#wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.2.0.tar.gz
wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.3.2.tar.gz
tar -xzf nagios*.tar.gz
cd nagios-4.3.2
```

### Step 2 - Compile Nagios

Before you build Nagios, you will have to configure it with the user and the group you have created earlier.

```
./configure --with-nagios-group=nagios --with-command-group=nagcmd
```

### How to install Nagios

```
make all
sudo make install
sudo make install-commandmode
sudo make install-init
sudo make install-config
sudo /usr/bin/install -c -m 644 sample-config/httpd.conf /etc/apache2/sites-available/nagios.conf
```

**Copy eventhandler directory to the nagios directory:**

```
sudo cp -R contrib/eventhandlers/ /usr/local/nagios/libexec/  
sudo chown -R nagios:nagios /usr/local/nagios/libexec/eventhandlers
```

### Step 3 - Install the Nagios Plugins

Download and extract the Nagios plugins:

```
cd ~  
wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz  
#wget https://nagios-plugins.org/download/nagios-plugins-2.1.2.tar.gz  
tar -xzf nagios-plugins*.tar.gz  
cd nagios-plugin-2.2.1/
```

Install the Nagios plugin's with the commands below:

```
./configure --with-nagios-user=nagios --with-nagios-group=nagios --with-openssl  
make  
sudo make install
```

### Step 4 - Configure Nagios

After the installation phase is complete, you can find the default configuration of Nagios in /usr/local/nagios/.

We will configure Nagios and Nagios contact.

Edit default nagios configuration with vim:

```
vim /usr/local/nagios/etc/nagios.cfg  
  
uncomment line 51 for the host monitor configuration.  
cfg_dir=/usr/local/nagios/etc/servers  
Save and exit.
```

Add a new folder named servers:

```
sudo mkdir -p /usr/local/nagios/etc/servers
```

The Nagios contact can be configured in the contact.cfg file.

Replace the default email with your own email.

```
sudo vi /usr/local/nagios/etc/objects/contacts.cfg
```

## Configuring Apache

### Step 1 - enable Apache modules

```
sudo a2enmod rewrite  
sudo a2enmod cgi
```

You can use the htpasswd command to configure a user nagiosadmin for the nagios web interface

```
sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
```

and type your password.

## Step 2 - enable the Nagios virtualhost

```
sudo ln -s /etc/apache2/sites-available/nagios.conf /etc/apache2/sites-enabled/
```

## Step 3 - Start Apache and Nagios

```
service apache2 restart  
service nagios start
```

When Nagios starts, you may see the following error :

```
Starting nagios (via systemctl): nagios.serviceFailed
```

And this is how to fix it:

```
cd /etc/init.d/  
cp /etc/init.d/skeleton /etc/init.d/nagios
```

Now edit the Nagios file:

```
sudo vi /etc/init.d/nagios
```

... and add the following code:

```
DESC="Nagios"  
NAME=nagios  
DAEMON=/usr/local/nagios/bin/$NAME  
DAEMON_ARGS="-d /usr/local/nagios/etc/nagios.cfg"  
PIDFILE=/usr/local/nagios/var/$NAME.lock
```

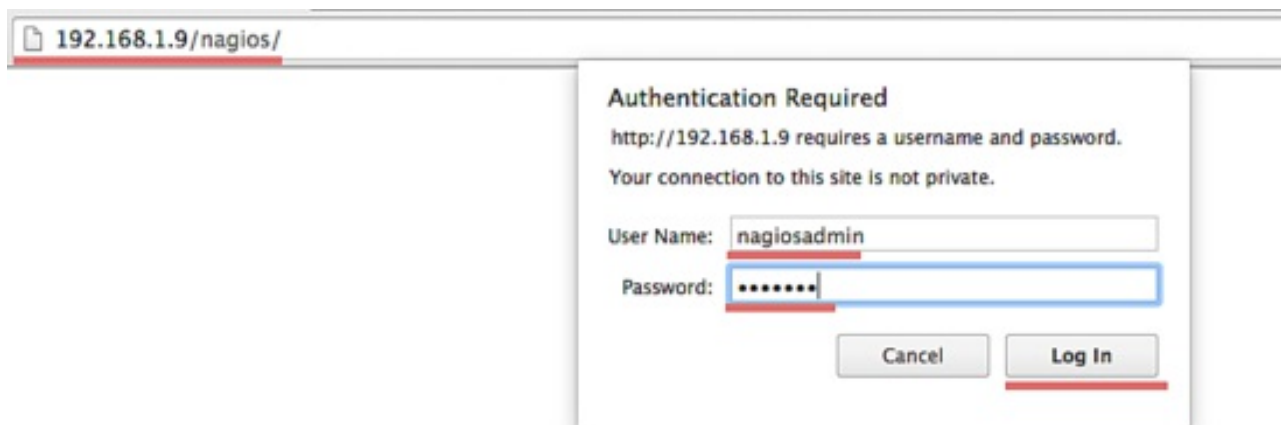
Make it executable and start Nagios:

```
sudo chmod +x /etc/init.d/nagios  
sudo chown root:root /etc/init.d/nagios  
sudo service apache2 restart  
service nagios start  
sudo service nagios start  
  
sudo update-rc.d nagios defaults  
sudo update-rc.d nagios enable
```

## Testing the Nagios Server

Please open your browser and access the Nagios server ip, in my case: <http://127.0.0.1/nagios>

Nagios Login with apache htpasswd.



## Nagios Admin Dashboard



## Adding a Host to Monitor

In this tutorial, I will add an Ubuntu host to monitor to the Nagios server we have made above.

Nagios Server IP : 10.100.x.x

Ubuntu Host IP : 192.168.1.10

### Step 1 - Connect to ubuntu host

```
ssh root@192.168.1.10
```

### Step 2 - Install NRPE Service

```
sudo apt-get install nagios-nrpe-server nagios-plugins
```

### Step 3 - Configure NRPE

After the installation is complete, edit the nrpe file /etc/nagios/nrpe.cfg:

```
sudo vi /etc/nagios/nrpe.cfg
```

... and add Nagios Server IP 192.168.1.9 to the server\_address.

```
server_address=10.100.x.x
```

## Step 4 - Restart NRPE

```
sudo service nagios-nrpe-server restart
```

## Step 5 - Add Ubuntu Host to Nagios Server

Please connect to the Nagios server:

```
ssh root@10.100.x.x
```

Then create a new file for the host configuration in /usr/local/nagios/etc/servers/.

```
sudo vi /usr/local/nagios/etc/servers/ubuntu_host.cfg
```

Add the following lines:

```
# Ubuntu Host configuration file

define host {
    use                linux-server
    host_name          ubuntu_host
    alias              Ubuntu Host
    address            192.168.1.10
    register           1
}

define service {
    host_name          ubuntu_host
    service_description PING
    check_command       check_ping!100.0,20%!500.0,60%
    max_check_attempts 2
    check_interval      2
    retry_interval      2
    check_period        24x7
    check_freshness     1
    contact_groups      admins
    notification_interval 2
    notification_period 24x7
    notifications_enabled 1
    register            1
}

define service {
    host_name          ubuntu_host
    service_description Check Users
    check_command       check_local_users!20!50
    max_check_attempts 2
}
```

```

        check_interval                2
        retry_interval                2
        check_period                  24x7
        check_freshness               1
        contact_groups                admins
        notification_interval          2
        notification_period            24x7
        notifications_enabled          1
        register                      1
    }

define service {
        host_name                     ubuntu_host
        service_description            Local Disk
        check_command                  check_local_disk!20%!10%!/
        max_check_attempts             2
        check_interval                 2
        retry_interval                 2
        check_period                   24x7
        check_freshness               1
        contact_groups                admins
        notification_interval          2
        notification_period            24x7
        notifications_enabled          1
        register                      1
    }

define service {
        host_name                     ubuntu_host
        service_description            Check SSH
        check_command                  check_ssh
        max_check_attempts             2
        check_interval                 2
        retry_interval                 2
        check_period                   24x7
        check_freshness               1
        contact_groups                admins
        notification_interval          2
        notification_period            24x7
        notifications_enabled          1
        register                      1
    }

define service {
        host_name                     ubuntu_host
        service_description            Total Process
        check_command                  check_local_procs!250!400!RSZDT
        max_check_attempts             2
        check_interval                 2
        retry_interval                 2
        check_period                   24x7
        check_freshness               1

```

```
contact_groups          admins
notification_interval    2
notification_period      24x7
notifications_enabled    1
register                 1
}
```

You can find many check\_command in /usr/local/nagios/etc/objects/commands.cfg file.

See there if you want to add more services like DHCP, POP etc.

And now check the configuration:

```
sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

... to see if the configuration is correct.

```
Checking objects...
  Checked 13 services.
  Checked 2 hosts.
  Checked 1 host groups.
  Checked 0 service groups.
  Checked 1 contacts.
  Checked 1 contact groups.
  Checked 24 commands.
  Checked 5 time periods.
  Checked 0 host escalations.
  Checked 0 service escalations.
Checking for circular paths...
  Checked 2 hosts
  Checked 0 service dependencies
  Checked 0 host dependencies
  Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...

Total Warnings: 0
Total Errors: 0

Things look okay - No serious problems were detected during the pre-flight check
root@nagios-host:~#
```

## Step 6 - Restart all services

On the Ubuntu Host start NRPE Service:

```
sudo service nagios-nrpe-server restart
```

... and on the Nagios server, start Apache and Nagios:

```
sudo service apache2 restart
sudo service nagios restart
```

## Step 7 - Testing the Ubuntu Host

Open the Nagios server from the browser and see the ubuntu\_host being monitored.

The Ubuntu host is available on monitored host.

**Nagios**  
Current Network Status  
Last Updated: Wed Aug 31 04:47:57 EDT 2016  
Updated every 30 seconds  
Nagios® Core™ 4.2.8 - www.nagios.org  
Logged in as nagiosadmin

**Host Status Totals**  
Up: 2, Down: 0, Unreachable: 0, Pending: 0  
All Problems: 0, All Types: 2

**Service Status Totals**  
OK: 13, Warning: 0, Unknown: 0, Critical: 0, Pending: 0  
All Problems: 0, All Types: 13

**Host Status Details For All Host Groups**  
Limit Results: 100

Host	Status	Last Check	Duration	Status Information
localhost	UP	08-31-2016 04:46:56	0d 1h 28m 13s	PING OK - Packet loss = 0%, RTT = 0.05 ms
ubuntu_host	UP	08-31-2016 04:43:47	0d 1h 12m 54s	PING OK - Packet loss = 0%, RTT = 0.52 ms

Results 1 - 2 of 2 Matching Hosts

All services monitored without error.

**Nagios**  
Current Network Status  
Last Updated: Wed Aug 31 04:48:22 EDT 2016  
Updated every 30 seconds  
Nagios® Core™ 4.2.8 - www.nagios.org  
Logged in as nagiosadmin

**Host Status Totals**  
Up: 2, Down: 0, Unreachable: 0, Pending: 0  
All Problems: 0, All Types: 2

**Service Status Totals**  
OK: 13, Warning: 0, Unknown: 0, Critical: 0, Pending: 0  
All Problems: 0, All Types: 13

**Service Status Details For All Host Groups**  
Display Filters:  
Host Status Types: All  
Host Properties: Any  
Service Status Types: OK  
Service Properties: Any  
Limit Results: 100

Host	Service	Status	Last Check	Duration	Attempts	Status Information
localhost	Current Load	OK	08-31-2016 04:46:57	0d 1h 28m 38s	1/4	OK - load average: 0.00, 0.00, 0.00
localhost	Current Users	OK	08-31-2016 04:47:37	0d 1h 28m 0s	1/4	USERS OK - 2 users currently logged in
localhost	HTTP	OK	08-31-2016 04:43:17	0d 1h 27m 23s	1/4	HTTP OK: HTTP/1.1 200 OK - 11895 bytes in 0.001 second response time
localhost	PING	OK	08-31-2016 04:47:28	0d 1h 25m 45s	1/4	PING OK - Packet loss = 0%, RTT = 0.05 ms
localhost	Root Partition	OK	08-31-2016 04:47:12	0d 1h 25m 8s	1/4	DISK OK - free space: / 10534 MB (85% inode=90%)
localhost	SSH	OK	08-31-2016 04:43:57	0d 1h 25m 30s	1/4	SSH OK - OpenSSH_7.2p2 Ubuntu-4ubuntu2.1 (protocol 2.0)
localhost	Swap Usage	OK	08-31-2016 04:48:04	0d 1h 24m 53s	1/4	SWAP OK - 100% free (2006 MB out of 2006 MB)
localhost	Total Processes	OK	08-31-2016 04:34:04	0d 1h 24m 15s	1/4	PROCS OK - 44 processes with STATE = RSZDT
ubuntu_host	Check SSH	OK	08-31-2016 04:47:55	0d 0h 13m 22s	1/2	SSH OK - OpenSSH_7.2p2 Ubuntu-4ubuntu2.1 (protocol 2.0)
ubuntu_host	Check Users	OK	08-31-2016 04:47:04	0d 1h 12m 38s	1/2	USERS OK - 2 users currently logged in
ubuntu_host	Local Disk	OK	08-31-2016 04:47:07	0d 1h 11m 59s	1/2	DISK OK - free space: / 10534 MB (85% inode=90%)
ubuntu_host	PING	OK	08-31-2016 04:47:37	0d 1h 12m 19s	1/2	PING OK - Packet loss = 0%, RTT = 0.52 ms
ubuntu_host	Total Process	OK	08-31-2016 04:47:46	0d 0h 0m 36s	1/2	PROCS OK - 43 processes with STATE = RSZDT

Results 1 - 13 of 13 Matching Services

### Conclusion

Nagios is an open source application for monitoring a system. Nagios has been widely used because of the ease of configuration. Nagios in support by various plugins, and you can even create your own plugins.

Look here for more information:

<https://nagios-plugins.org/doc/guidelines.html>

## Setup a custom notification

e.g., Whatsapp

<https://www.unixmen.com/send-nagios-alert-notification-using-whatsapp/>

```
cd /usr/local/nagios/libexec/  
cd /usr/local/nagios/etc/objects/  
cp commands.cfg commands.cfg.old
```



```
# Add commands to
vi /usr/local/nagios/etc/objects/commands.cfg
```

```
define command{
command_name notify-service-by-mutt
command_line echo "***** Nagios *****"
```

Notification Type: \$NOTIFICATIONTYPE\$

Service: \$SERVICEDESC\$  
Host: \$HOSTALIAS\$  
Address: \$HOSTADDRESS\$  
State: \$SERVICESTATE\$

Date/Time: \$LONGDATETIME\$

Additional Info:

```
$SERVICEOUTPUT$
"| mutt -e "set content_type=text/html" user@gmail.com -F /home/cisadmin/.muttrc-csinfo -s
"Nagios alert: $HOSTALIAS{{content}}quot;
}
```

```
sudo vi /usr/local/nagios/etc/objects/contacts.cfg
```

```
define contact{
    contact_name                nagiosadmin                ; Short name of
user
    use                         generic-contact              ; Inherit
default values from generic-contact template (defined above)
    alias                       Nagios Admin                ; Full name of
user
    email                       XXXXXX@gmail.com            ; <<***** CHANGE
THIS TO YOUR EMAIL ADDRESS *****
    service_notification_commands  notify-service-by-mutt ; notify-
service-by-email
    host_notification_commands    notify-service-by-mutt
}
```

```
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

If there are no errors, restart the nagios service:

```
service nagios restart
```

Note: /usr/local/nagios/etc/objects/localhost.cfg has a good guide for host config files in /usr/local/nagios/etc/objects/servers

e.g.,

```
vi /usr/local/nagios/etc/servers/131.230.133.20.cfg
```

```

# Ubuntu Host configuration file

define host {
    use                linux-server
    host_name          pc00
    alias              pc00
    address            131.230.133.20
    register           1
}

# Define a service to "ping" the local machine
define service {
    host_name          pc00
    service_description PING
    check_command       check_ping!100.0,20%!500.0,60%
    max_check_attempts 5
    check_interval      2
    retry_interval      2
    check_period        24x7
    check_freshness     1
    contact_groups      admins
    notification_interval 0
    notification_period 24x7
    notifications_enabled 1
    register            1
}

# Define a service to check the number of currently logged in
# users on the local machine. Warning if > 20 users, critical
# if > 50 users.

#define service {
    #host_name          pc00
    #service_description Check Users
    #check_command       check_local_users!20!50
    #max_check_attempts  2
    #check_interval      2
    #retry_interval      2
    #check_period        24x7
    #check_freshness     1
    #contact_groups      admins
    #notification_interval 2
    #notification_period 24x7
    #notifications_enabled 1
    #register            1
#}

# Define a service to check the disk space of the root partition
# on the local machine. Warning if < 20% free, critical if
# < 10% free space on partition.

```

```
# define service {
#     host_name                pc00
#     service_description      Local Disk
#     check_command             check_local_disk!20%!10%!/
#     max_check_attempts        2
#     check_interval            2
#     retry_interval            2
#     check_period              24x7
#     check_freshness           1
#     contact_groups            admins
#     notification_interval     2
#     notification_period       24x7
#     notifications_enabled      1
#     register                  1
# }
```

```
# Define a service to check SSH on the local machine.
# Disable notifications for this service by default, as not all users may have
SSH enabled.
# notifications_enabled        0
```

```
define service {
    host_name                pc00
    service_description      Check SSH
    check_command             check_ssh
    max_check_attempts        5
    check_interval            2
    retry_interval            2
    check_period              24x7
    check_freshness           1
    contact_groups            admins
    notification_interval     0
    notification_period       24x7
    notifications_enabled      1
    register                  1
}
```

```
# Define a service to check the number of currently running procs
# on the local machine. Warning if > 250 processes, critical if
# > 400 processes.
```

```
# define service {
#     host_name                pc00
#     service_description      Total Process
#     check_command             check_local_procs!450!800!RSZDT
#     max_check_attempts        2
#     check_interval            2
#     retry_interval            2
#     check_period              24x7
```

```
#      check_freshness          1
#      contact_groups           admins
#      notification_interval     2
#      notification_period       24x7
#      notifications_enabled     1
#      register                  1
# }
```

## Setup mutt email account

```
sudo -i
mkdir -p /home/nagios
su nagios
cd ~
mkdir ~/Mail
cp <.muttrc> ~/.mutt-csinfo.rc
```

## Setup a custom daily nagios report email

```
vi /etc/cron.daily/nagios-reporter.pl
```

Paste the following into nagios-reporter.pl

```
#!/usr/bin/perl -w
#
# Nagios overnight/daily/weekly/monthly reporter
#
# Fetches Nagios report from web, processes HTML/CSS and emails to someone
# Written by Rob Moss, 2005-07-26, coding@mossko.com
#
# Use at your own risk, knoweledge of perl required.
#
# Version 1.3.1
# - Overnight, Daily, Weekly, Monthly reports
#

use strict;
use Getopt::Long;
use Net::SMTP;
use LWP::UserAgent;
#use Date::Manip;
use v5.16;

my $mailhost      = 'mail.domain.edu';      # Fill these in!
my $maildomain    = 'domain.edu';          # Fill these in!
my $mailfrom      = 'user@domain.edu';      # Fill these in!
my $mailto        = 'user@gmail.com';      # Fill these in!
my $timeout       = 30;
my $mailsubject   = '';
my $mailbody      = '';
```

```

my $logfile      =  '/usr/local/nagios/var/mail.log';  #   Where would you
like your logfile to live?
my $debug        =  1;                               #   Set the debug level
to 1 or higher for information

my $type         =  '';
my $repdateprev;
my $reporturl;

my $nagssbody;
my $nagsssummary;

my $webuser      =  'nagiosadmin';                    #   Set this to a
read-only nagios user (not nagiosadmin!)
my $webpass      =  '<PASSWORD_HERE>';                #   Set this to
a read-only nagios user (not nagiosadmin!)
my $webbase      =  'http://127.0.0.1/nagios';         #   Set this to
the base of Nagios web page
my $webcssembled =  0;

GetOptions (
    "debug=s"    =>  \$debug,
    "help"       =>  \&help,
    "type=s"     =>  \$type,
    "email=s"    =>  \$mailto,
    "embedcss"   =>  \$webcssembled,
);

if (not defined $type or $type eq "") {
    help();
    exit;
}
elsif ($type eq "overnight") {
    report_overnight();
}
elsif ($type eq "daily") {
    report_daily();
}
elsif ($type eq "weekly") {
    report_weekly();
}
elsif ($type eq "monthly") {
    report_monthly();
}
else {
    die("Unknown report type $type\n");
}

```

```

debug(1,"reporturl: [$reporturl]");

$mailbody = http_request($reporturl);
if ($webcssembled) {
    # Stupid hacks for dodgy notes
    $nagssbody      = http_request("$webbase/stylesheets/summary.css");
    $nagsssummary = "<style type=\"text/css\">\n";
    foreach ( split(/\n/, $nagssbody) ) {
        chomp;
        if (not defined $_ or $_ eq "" ) {
            next;
        }
        $nagsssummary .= "<!-- $_ -->\n";
    }
    $nagsssummary .= "</style>\n";
    $nagsssummary .= "<base href=\"$webbase/cgi-bin/\">\n";

    $mailbody =~ s@<LINK REL=\"stylesheet\" TYPE=\"text/css\"
    HREF=\"'/stylesheets/common.css\">@@;
    $mailbody =~ s@<LINK REL=\"stylesheet\" TYPE=\"text/css\"
    HREF=\"'/stylesheets/summary.css\">@$nagsssummary@;
}

open(FILE, "> /tmp/nagios-report-htmlout.html") or warn "can't open file
/tmp/nagios-report-htmlout.html: $!\n";
print FILE $mailbody;
close FILE;

sendmail();

#####
sub help {
print <<_END_;

Nagios web->email reporter program.

$0 <args>

--help
    This screen

--email=<email>
    Send to this address instead of the default address
    "$mailto"

--type=overnight
    Overnight report, from 17h last working day to Today (9am)

```

```

--type=daily
    Daily report, 09:00 last working day to Today (9am)
--type=weekly
    Weekly report, 9am 7 days ago, until 9am today (run at 9am friday!)
--type=monthly
    Monthly report, 1st of prev month at 9am to last day of month, 9am

--embedcss
    Downloads the CSS file and embeds it into the main HTML to enable
    Lotus Notes to work (yet another reason to hate Notes)

_END_

exit 1;

}

#####
sub report_monthly {
    # This should be run on the 1st of every month
    $repdateprev = DateCalc("yesterday",1);
    debug(1,"repdateprev = $repdateprev");
#           #2006072116:48:37
    my ($repsday, $repsmonth, $repsyear, $repshour ) = 0;
    $repdateprev =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
    $repsday = 01;
    $repsmonth = $2;
    $repsyear = $1;
    $repshour = 0;

    my ($repeday, $repemonth, $repeyear, $repehour ) = 0;
    my $repdatenow = ParseDate("today");
    debug(1,"repdatenow = $repdatenow");
    $repdatenow =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
    $repeday = $3;
    $repemonth = $2;
    $repeyear = $1;
    $repehour = 0;

    $reporturl = "$webbase/cgi-bin/summary.cgi?
report=1&displaytype=1&timeperiod=custom" .

"&smon=$repsmonth&sday=$repsday&syear=$repsyear&shour=$repshour&smin=0&ssec=0"
.

"&emon=$repemonth&eday=$repeday&eyear=$repeyear&ehour=$repehour&emin=0&esec=0"
.

'&hostgroup=all&servicegroup=all&host=all&alerttypes=3&statetypes=2&hoststates=
3&servicestates=56&limit=500';
    $mailsubject = "Nagios alerts for month $repsmonth/$repsyear";

```

```
}
```

```
#####
```

```
sub report_weekly {
```

```
    # This should be run on Friday, 9am
```

```
    $repdateprev = Date_PrevWorkDay("today",5);
```

```
    debug(1,"repdateprev = $repdateprev");
```

```
        #2006072116:48:37
```

```
    my ($repsday, $repsmonth, $repsyear, $repshour ) = 0;
```

```
    $repdateprev =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
```

```
    $repsday = $3;
```

```
    $repsmonth = $2;
```

```
    $repsyear = $1;
```

```
    $repshour = 9;
```

```
    my ($repeday, $repemonth, $repeyear, $repehour ) = 0;
```

```
    my $repdatenow = ParseDate("today");
```

```
    debug(1,"repdatenow = $repdatenow");
```

```
    $repdatenow =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
```

```
    $repeday = $3;
```

```
    $repemonth = $2;
```

```
    $repeyear = $1;
```

```
    $repehour = 9;
```

```
    $reporturl = "$webbase/cgi-bin/summary.cgi?
```

```
report=1&displaytype=1&timeperiod=custom" .
```

```
"&smon=$repsmonth&sday=$repsday&year=$repsyear&shour=$repshour&smin=0&ssec=0"
```

```
.
```

```
"&emon=$repemonth&eday=$repeday&eyear=$repeyear&ehour=$repehour&emin=0&esec=0"
```

```
.
```

```
'&hostgroup=all&servicegroup=all&host=all&alerttypes=3&statetypes=2&hoststates=3&servicestates=56&limit=500';
```

```
    $mailsubject = "Nagios alerts for week ending
```

```
$repsday/$repsmonth/$repsyear";
```

```
}
```

```
#####
```

```
sub report_daily {
```

```
    #$repdateprev = Date_PrevWorkDay("today",1);
```

```
    #debug(1,"repdateprev = $repdateprev");
```

```
        #2006072116:48:37
```

```
    my ($repsday, $repsmonth, $repsyear, $repshour ) = 0;
```

```
    #$repdateprev =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
```

```
    $repsday = $3;
```

```
    $repsmonth = $2;
```

```
    $repsyear = $1;
```

```
    $repshour = 7;
```



```

my ($repeday, $repemonth, $repeyear, $repehour ) = 0;
#my $repdatenow = ParseDate("today");
#debug(1,"repdatenow = $repdatenow");
#$repdatenow =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
$repeday = $3;
$repemonth = $2;
$repeyear = $1;
$repehour = 7;

#$reporturl = "$webbase/cgi-bin/summary.cgi?
report=1&displaytype=1&timeperiod=custom" .
#
"&smon=$repsmonth&sday=$repsday&year=$repsyear&shour=$repshour&smin=0&ssec=0"
.
#
"&emon=$repemonth&eday=$repeday&eyear=$repeyear&ehour=$repehour&emin=0&esec=0"
.
#
'&hostgroup=all&servicegroup=all&host=all&alerttypes=3&statetypes=2&hoststates=
3&servicestates=56&limit=500';

#$reporturl = "http://127.0.0.1/nagios3/cgi-bin/summary.cgi?
report=1&displaytype=1&timeperiod=last24hours&hostgroup=all&servicegroup=all&ho
st=all&alerttypes=3&statetypes=3&hoststates=7&servicestates=120&limit=100";
$reporturl = "http://127.0.0.1/nagios/cgi-bin/summary.cgi?
report=1&displaytype=1&timeperiod=last7days&hostgroup=all&servicegroup=all&host
=all&alerttypes=3&statetypes=3&hoststates=7&servicestates=120&limit=100";

$mailsubject = "Nagios alerts for 24 hours $repsday/$repsmonth/$repsyear
${repshour}h to present";
$mailsubject = "Nagios alerts for last week";
}

#####
sub report_overnight {
    $repdateprev = Date_PrevWorkDay("today",1);
    debug(1,"repdateprev = $repdateprev");
    #2006072116:48:37
    my ($repsday, $repsmonth, $repsyear, $repshour ) = 0;
    $repdateprev =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
    $repsday = $3;
    $repsmonth = $2;
    $repsyear = $1;
    $repshour = 17;

    my ($repeday, $repemonth, $repeyear, $repehour ) = 0;
    my $repdatenow = ParseDate("today");
    debug(1,"repdatenow = $repdatenow");
    $repdatenow =~ /(\d\d\d\d)(\d\d)(\d\d)(.*)/;
    $repeday = $3;

```

```

$repemonth = $2;
$repeyear = $1;
$repehour = 9;

$reporturl = "$webbase/cgi-bin/summary.cgi?
report=1&displaytype=1&timeperiod=custom" .

"&smon=$repsmonth&sday=$repsday&year=$repsyear&shour=$repshour&smin=0&ssec=0"
.

"&emon=$repemonth&eday=$repeday&eyear=$repeyear&ehour=$repehour&emin=0&esec=0"
.

'&hostgroup=all&servicegroup=all&host=all&alerttypes=3&statetypes=2&hoststates=
3&servicestates=56&limit=500';
    $mailsubject = "Nagios overnight alerts from $repsday/$repsmonth/$repsyear
${repshour}h to present";
}

#####
sub http_request {
    my $ua;
    my $req;
    my $res;

    my $geturl = shift;
    if (not defined $geturl or $geturl eq "") {
        warn "No URL defined for http_request\n";
        return 0;
    }
    $ua = LWP::UserAgent->new;
    $ua->agent("Nagios Report Generator " . $ua->agent);
    $req = HTTP::Request->new(GET => $geturl);
    $req->authorization_basic($webuser, $webpass);
    $req->header(    'Accept'           => 'text/html',
                   'Content_Base'      => $webbase,
                   );

    # send request
    $res = $ua->request($req);

    # check the outcome
    if ($res->is_success) {
        debug(1,"Retreived URL successfully");
        print "Output: " . $res->decoded_content . "\n";
        return $res->decoded_content;
    }
    else {
        print "Error: " . $res->status_line . "\n";
        return 0;
    }
}

```

```

}

#####
sub debug {
    my ($lvl,$msg) = @_;
    if ( defined $debug and $lvl <= $debug ) {
        chomp($msg);
        print localtime(time) .": $msg\n";
    }
    return 1;
}

#####
sub sendmail {

    #system("echo test");
    #say `echo test`;
    say `echo "$mailbody" | mutt -e "set content_type=text/html" $mailto -F
~/muttrc-csinfo -s "Nagios alerts for 24 hours"`;
    #echo $mailbody

    #system("echo $mailbody");
    #system("echo test");
    #echo "***** Nagios *****<BR><BR>Notification Type:
$NOTIFICATIONTYPE{{content}}<BR>Host: $HOSTNAME{{content}}<BR>State:
$HOSTSTATE{{content}}<BR>Address: $HOSTADDRESS{{content}}<BR>Info:
$HOSTOUTPUT{{content}}<BR><BR>Date/Time: $LONGDATETIME{{content}}<BR>" |
mutt -e "set content_type=text/html" $CONTACTEMAIL$ -F ~/.muttrc-csinfo -s "***
$NOTIFICATIONTYPE$ Host Alert: $HOSTNAME$ is $HOSTSTATE$ **
}

```

```

sudo chmod +x /etc/cron.daily/nagios-reporter.pl
crontab -e

```

```

# m h dom mon dow  command
0 6 * * * /etc/cron.daily/nagios-reporter.pl --type=daily

```

Confirm the report works

```

/etc/cron.daily/nagios-reporter.pl --type=daily

```