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Using Nagios with SP2/SP8

The SP2 can be used with Nagios. This is an open source network monitoring framework that can be used to monitor the status of your securityProbe unit. Nagios is primarily operated via a LINUX terminal window window. There follows the line command you need in order to setup your SP2 with Nagios

Table of contents

1. Copy Nagios binary to flash

cp -a /usr/nagios /flash1/user/

2. Create nagios config file

vi /flash1/user/etc/nagios

Insert

NAGIOS_BIN=/flash1/user/nagios/bin/nagios
NAGIOS_CFG=/flash1/user/nagios/etc/nagios.cfg

Save and exit

3. Edit nagios configuration file

vi /flash1/user/nagios/etc/nagios.cfg

Search
cfg_file=/usr/nagios/etc/checkcommands.cfg
Change to
cfg_file=/flash1/user/nagios/etc/checkcommands.cfg

Search
cfg_file=/usr/nagios/etc/misccommands.cfg
Change to
cfg_file=/flash1/user/nagios/etc/misccommands.cfg

Search
cfg_file=/usr/nagios/etc/bigger.cfg
Change to
cfg_file=/flash1/user/nagios/etc/bigger.cfg

Search
cfg_file=/usr/nagios/etc/hostextinfo.cfg
Change to
cfg_file=/flash1/user/nagios/etc/hostextinfo.cfg

Search
resource_file=/usr/nagios/etc/resource.cfg
Change to
resource_file=/flash1/user/nagios/etc/resource.cfg

Search
p1_file=/usr/nagios/bin/p1.pl
Change to
p1_file=/flash1/user/nagios/bin/p1.pl

4. Edit or add host by editing or adding host in bigger.cfg

vi /flash1/user/nagios/etc/bigger.cfg

```
# 'HOST_NAME' host definition
define host{
use                     generic-host       ; Name of host template to use

host_name                HOST_NAME
alias                   HOST_NAME #1
address                 IP_ADDRESS
check_command            check-host-alive
max_check_attempts       5
notification_interval      2
```

```
notification_period             24x7
notification_options            d,u,r
}

# When      HOST_NAME = Name host
#       IP_ADDRESS = Host IP Address
```

5. Edit or add hostextinfo by editing or adding hostextinfo in hostextinfo.cfg

```
vi /flash1/user/nagios/etc/hostextinfo.cfg

# 3.1 add hostextinfo

define hostextinfo{
host_name               HOST_NAME
icon_image              PICTURE
icon_image_alt          sensorProbe8@IPaddress
vrml_image              PICTURE
statusmap_image         GD2
2d_coords               XXX,YYY
#    3d_coords              100.0,50.0 ,75.0
}

# When      HOST_NAME = Name host
#       PICTURE = host picture (cameraProbe8 = cp8_pic.gif , sensorProbe8 =
sp8_pic.gif ,
#                   sensorProbe2 = sp2_pic.gif)
#       GD2 = status map (cameraProbe8 = cp8.gd2 , sensorProbe8 = sp8.gd2 ,
#               sensorProbe2 = sp2.gd2)
#       2d_coords = host position in map etc. 30,120
```

6. Edit or add host group by editing or adding host group in bigger.cfg

```
vi /flash1/user/nagios/etc/bigger.cfg

# 'akcp-devices' host group definition
define hostgroup{
hostgroup_name          akcp-devices
alias                   AKCP Devices
contact_groups          nagios-admins
members                 HOST_NAME,HOST_NAME,HOST_NAME
}

# When      HOST_NAME = Name host
```

7. Edit or add service by editing or adding service in bigger.cfg

vi /flash1/user/nagios/etc/bigger.cfg

```
# Service definition
define service{
use                             generic-service         ; Name of service template to use

host_name                       HOST_NAME
service_description             Status: SERVICE_NAME
is_volatile                     0
check_period                    24x7
max_check_attempts              3
normal_check_interval           3
retry_check_interval            1
contact_groups                  nagios-admins
notification_interval           60
notification_period             24x7
notification_options            w,u,c,r
check_command                   check_sprobe! PASSWORD!SENSOR!PORT
}

# When      HOST_NAME = Name host
#       SERVICE_NAME = Service name etc. Temperature Port 1
#       PASSWORD = Admin password default  public
#       SENSOR = sensor type etc. Temperature
#
#               Temperature         temperature sensor
#               Humidity            humidity sensor
#               Airflow             airflow sensor
#               4-20mAmp            4-20mA sensor
#               DC_Voltage          DC voltage sensor
#               Relay               relay sensor
#               Motion              motion detector
#               AC_Voltage          AC voltage sensor
#               Water               water detector
#               Security            security sensor
#               DryContact          dry contact sensor
#
#       PORT = sensor port
```

8. Check Nagios configuration, by stopping and re starting

/etc/rc.d/init.d/nagios verify (check all configure)
/etc/rc.d/init.d/nagios stop (stop nagios service)
/etc/rc.d/init.d/nagios start (start nagios service)

After changing the configure file it should be verified, stop, then restart the Nagios service

9. Login on to Nagios web interface

User : nagiosadmin
Pass : admin