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## 1 Nagios and Request Tracker Integration

## 2 Creating Tickets

## 3 Introduction

### 3.1 Goals

- Learn how to configure Nagios to raise tickets in RT

### 3.2 Notes

- Commands preceded with “\$” imply that you should execute the command as a general user - not as root.
- Commands preceded with “#” imply that you should be working as root.
- Commands with more specific command lines (e.g. “bdr1.campusY>” or “mysql>”) imply that you are executing commands on remote equipment, or within another program.

## 4 Exercises

To configure RT and Nagios so that alerts from Nagios automatically create tickets requires a few steps:

- Create a proper contact entry for Nagios in `/etc/nagios3/conf.d/contacts__nagios2.cfg` on your host.
- Update either `services__nagios2.cfg` or an individual host entry to use the new contact group.

These next two items should already be done in RT if you have finished the RT exercises.

- Install the `rt-mailgate` software and configure it properly in your `/etc/aliases` file for your MTA in use.
- Configure the appropriate queues in RT to receive emails passed to it from Nagios via the `rt-mailgate` software.

## 5 Exercises

Log in to your virtual machine as the `sysadm` user.

## 6 Configure a Contact in Nagios

Become root on your server:

```
$ sudo -s
```

Edit the file `/etc/nagios3/conf.d/contacts__nagios2.cfg`

```
# editor /etc/nagios3/conf.d/contacts__nagios2.cfg
```

In this file we will first add a new contact name under the default root contact entry.

WARNING: DO NOT remove the root contact entry.

REALLY - READ THIS! DO NOT remove the root contact entry.

**ADD the entry below just AFTER the ROOT contact entry**

The new contact should look like this (UNDERNEATH the root contact entry):

```
define contact{
    contact_name          net
    alias                 RT Alert Queue
    service_notification_period 24x7
}
```

```

host_notification_period      24x7
service_notification_options  c
host_notification_options     d
service_notification_commands  notify-service-by-email
host_notification_commands     notify-host-by-email
email                         net@srv1.campusY.ws.nsrc.org
}

```

Be sure that you replace “campusY” with the number of your group. So, if you are in group 1, then you would use “net@srv1.campus1.ws.nsrc.org”.

At the end of the file add the following entry: (Note: do not delete or update other entries.)

#### DO THIS AT THE END OF THE FILE

```

define contactgroup{
    contactgroup_name    tickets
    alias                email to ticket system for RT
    members              net,root
}

```

Save and exit from the file.

## 6.1 Notes

- the service\_notification\_option of “c” means only notify once a service is considered “critical” by Nagios (i.e. down). The host\_notification\_option of “d” means down. By specifying only “c” and “d” this means that notifications will not be sent for other states.
- Note the email address in use “net@srv1.campusY.ws.nsrc.org” - this is important as this was previously defined in the Request Tracker (RT) exercises.
- You could leave off “root” as a member, but we’ve left this on to have another user that receives email to help us troubleshoot if there are issues.

## 7 Choose a Service to Monitor that Creates Tickets in RT

To send email to generate tickets in RT if SSH goes down on a box you would edit the SSH service check:

```
# editor /etc/nagios3/conf.d/services_nagios2.cfg
```

Find the service with the `hostgroup_name` of “ssh-servers” and add the “`contact_groups`” entry at the end of the definition. When you are done your definition should look like this:

```
define service {
    hostgroup_name      ssh-servers
    service_description SSH
    check_command        check_ssh
    use                 generic-service
    notification_interval 0 ; set > 0 if you want to be renotified
    contact_groups      tickets,admins
}
```

Save and exit from the file.

## 7.1 Notes

- Note the additional item that we now have, “`contact_groups`.” You can do this for other entries as well if you wish.
- We, also, included the default contact group of admins. You could leave this off if you wish.

## 8 Include noc as members of ssh-server

```
# editor /etc/nagios3/conf.d/hostgroups_nagios2.cfg
```

Find the group with the `hostgroup_name` of “ssh-servers” and add `noc` to the “`members`” entry at the end of the definition. When you are done your definition should look like this:

```
# A list of your ssh-accessible servers
define hostgroup {
    hostgroup_name  ssh-servers
        alias      SSH servers
        members     localhost,noc
    }
}
```

Now save and exit from the file.

To create a “NOC” entry add this to the file `pcs.cfg` at the bottom of the file:

```
define host {
    use      generic-host
    host_name  noc
    alias    Main NOC server for NMM Workshop
    address  noc.ws.nsrc.org
}
```

```
}
```

Save and exit from the file.

Now verify that your Nagios configuration looks good:

```
# nagios3 -v /etc/nagios3/nagios.cfg
```

If there are no errors, then restart your nagios instance:

```
# systemctl restart nagios3
```

If SSH goes down on any of the devices you are monitoring Nagios should generate a new ticket in Request Tracker. We will stop the SSH service on the classroom NOC server. If you are not monitoring this machine, then you will need to add an entry for NOC in your Nagios configuration and add it to the ssh hostgroup defined in the file `hostgroups_nagios2.cfg`.

Save, exit from the file and restart Nagios:

```
# systemctl restart nagios3
```

## 9 See Nagios Tickets in RT

- It will take a bit (up to 5 minutes) for Nagios to report that SSH is “critical”. Then you must wait for a total of 4 checks before the SSH service is deemed to be down “hard”. At that point Nagios will send an email to `net@srv1.campusY.ws.nsrc.org` and a ticket will be created in RT.
- Remember to see this go to `http://srv1.campusY.ws.nsrc.org/rt/` and log in as Username “`sysadm-hostX`” with the password you used for your host. The new ticket should appear in the “10 newest unowned tickets” box in the main net queue on the main login page in RT.