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# Nagios on certification testbed

In this page we describe the services monitored by the nagios server installed on cream-17.pd.infn.it

## Install NRPE client

To monitor a service (from the nagios server on cream-17.pd.infn.it) you need to install NRPE client using this procedure:

- yum install xinetd
  - ◆ Configure /etc/xinetd.d/nrpe

```
# description: NRPE (Nagios Remote Plugin Executor)
service nrpe
{
    flags          = REUSE
    type           = UNLISTED
    port           = 5666
    socket_type    = stream
    wait           = no
    user           = nagios
    group          = nagios
    server         = /usr/sbin/nrpe
    server_args    = -c /etc/nagios/nrpe.cfg --inetd
    log_on_failure += USERID
    disable        = yes
    only_from      = 127.0.0.1 193.206.210.82
}
```

- ◆ chkconfig xinetd on
- ◆ service xinetd restart
- yum install nrpe
  - ◆ Add to /etc/services

```
# Local services
nrpe          5666/tcp          # NRPE
```

- ◆ Changes in /etc/nagios/nrpe.cfg

```
-allowed_hosts=127.0.0.1
+allowed_hosts=193.206.210.82
-command_timeout=60
+command_timeout=600
```

- ◆ Add the required plugins (This step depend on the service see below)
- ◆ chkconfig nrpe on
- ◆ service nrpe restart

## Nagios plugins

Usually the PLUGINPATH depends on the architecture (substitute variable with the right line in the command description):

- PLUGINPATH=/usr/lib/nagios/plugins on SL4 (i386)
- PLUGINPATH=/usr/lib64/nagios/plugins on SL5 (x86\_64)

## Default checks

These checks are activate on all hosts:

- `command[check_users]=<PLUGINPATH>/check_users -w 5 -c 10`
- `command[check_load]=<PLUGINPATH>/check_load -w 15,10,5 -c 30,25,20`
- `command[check_disk]=<PLUGINPATH>/check_disk -w 20% -c 10% -p /dev/hda1`
- `command[check_zombie_procs]=<PLUGINPATH>/check_procs -w 5 -c 10 -s Z`
- `command[check_total_procs]=<PLUGINPATH>/check_procs -w 150 -c 200`

## Custom checks

We suppose that these custom plugins are installed in <PLUGINPATH>/gLite directory

### CREAM checks

The following checks are based on the output of a shell monitoring script installed by default on a CREAM CE. All these checks required root permission so instead of add user nagios to sudoers file we prefer to add a cron job which run the monitoring script and save the output on the file /tmp/cream.mon. This is the cron job which must be installed on the client before activating these plugins:

```
*/1 * * * * root /opt/glite/bin/glite_cream_load_monitor --show > /tmp/cream.mon
```

- `command[check_tom_fd]=<PLUGINPATH>/gLite/check_tom_fd -w 300 -c 600`
- `command[check_cream_cmd]=<PLUGINPATH>/gLite/check_cream_cmd -w 300 -c 600`
- `command[check_cream_jobs]=<PLUGINPATH>/gLite/check_cream_jobs -w 1000 -c 3000`

### Batch System checks

You have to choose between pbs/torque and lsf

- `command[check_lsf_jobs]=<PLUGINPATH>/gLite/check_lsf_jobs -w 1000 -c 5000`

or

- `command[check_pbs_jobs]=<PLUGINPATH>/gLite/check_pbs_jobs -w 1000 -c 5000`

### Worker Node checks

The option depends from the installed batch system

- `command[check_wn_jobs]=<PLUGINPATH>/gLite/check_wn_jobs -b [ pbs || lsf ]`

### Generic checks

- `command[check_host]=<PLUGINPATH>/gLite/check_glite_host`

### Cream CLI checks

This is useful to test Cream CE through CreamCLI direct submission. To run this plugin you need to modify the nrpe configuration file of the host (i.e. the UI):

```
-dont_blame_nrpe=0
+dont_blame_nrpe=1
-command_timeout=600
+command_timeout=1200
```

- `command[creamCLI_submit]=<PLUGINPATH>/gLite/CreamCLI_Submit -H $ARG1$`

## WMS checks

- `command[check_wms_services]=<PLUGINPATH>/gLite/check_wms_services`
- `command[check_wms_queues]=<PLUGINPATH>/gLite/check_wms_queues`
- `command[check_wms_jobs]=<PLUGINPATH>/gLite/check_wms_jobs`

## Useful links

- Nagios Web site
- Nagios Core 3.x Documentation
- Official Nagios Plugins site
- Nagios plug-in development guidelines

-- AlessioGianelle - 2011-01-12

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