

## INSTALL NAGIOS SERVER

- Clean CentOS minimal install
- Install as per: <https://assets.nagios.com/downloads/nagiosxi/docs/Installing-Nagios-XI-Manually-on-Linux.pdf>

## INSTALL NRPE ON CLIENTS

set up nrpe on each client.

- download nagios-plugins
- untar, make and install
  - ./configure
  - make
  - make install
- yum install xinetd
- download nrpe source
- untar config with args, make and install
  - ./configure --enable-command-args
  - make all
  - make install-groups-users
  - make install
  - make install-config
  - make install-init
- echo "nrpe 5666/tcp" >> /etc/services
- open port 5666/tcp in firewall
  
- edit the file in /etc/xinetd.d/nrpe
  - change disable to "no"
  - and comment out the "only\_from" option
  
- VERY IMPORTANT making changes to the /etc/xinetd.d/nrpe need to "systemctl reload xinetd" then restart the services
  
- test with on the node /usr/local/nagios/libexec/check\_nrpe -H localhost
- test from the nagios server with /usr/local/nagios/libexec/check\_nrpe -H IP.OF.NODE.YUP
  
- if it reports back the version of NRPE running it worked.
- if not use tail -f /var/log/messages and fix the errors that come up. (check firewalls)

## SETUP CUSTOM SCRIPTS

ZFS

- copy plugin scripts to "/usr/local/nagios/libexec/" from
- chmod +x
- add entry into /usr/local/nagios/etc/nrpe.cfg
- be sure to add sudo if root privileges for nagios user
- add to group wheel and comment the wheel no passwd entry

## Email/ Notification Setup

go to user profile.

- Notification Prefs – check enable and set desired settings
- Notification Methods – check enable for desired methods
- Notification Messages

<https://assets.nagios.com/downloads/nagiosxi/docs/Configuring-Email-And-Text-Notifications-in-Nagios-XI.pdf>

- Configure Configuration Wizard
- DONT USE AUTO-DISCOVER FOR HOSTS it will bring down internet connection.
- Add host and services manually.

## ZFS SNAPSHOTS

```
wget https://github.com/zfsonlinux/zfs-auto-snapshot/archive/master.zip
unzip master.zip
cd zfs-auto-snapshot-master
make install
```

- set true/false on zpool and dataset with  
zfs set com.sun:auto-snapshot=true/false zpool

- get current with  
zfs get com.sun:auto-snapshot

- set frequent,daily,hourly,weekly or monthly  
zfs set com.sun:auto-snapshot:frequent=true/false zpool

- get frequent,daily,hourly,weekly or monthly  
zfs get com.sun:auto-snapshot:frequent

- change max number of snaps to keep in the zfs-auto-snapshot file in each respective cron directory

- run this command to edit number of snaps to keep:

```
sed -i 's^(--keep=)\(.*\)^17 \\\\' /etc/cron.hourly/zfs-auto-snapshot
```

- **bolded** are the parts to change