WORKSHOP SHINKEN

REFERENCE:

- Ref[1] tutorial for Centos7
- Ref[2] official documentation
INSTALL SHINKEN FOR CENTOS 7

yum install epel-release
yum install shinken*

- change conf if needed
  - check web adress of daemons

```bash
vim /etc/shinken/shinken.cfg

deamon="arbiter poller reactionner scheduler broker receiver"
for i in $deamon
do
  chkconfig shinken-$i on
done
for i in $deamon
do
  service shinken-$i start
done
```
HOW TO RESTART DAEMON

- when the configuration change restart the broker daemon
- on server using systemd (centos7)

```bash
systemctl restart shinken-*
systemctl status shinken-*
```
EXPLORE THE CONFIG

```
tree -d /etc/shinken/
```

- check the logs in /var/log/shinken
ADD WEBUI

- create share dir

```
mkdir /var/lib/shinken/{share,doc,libexec}
chown nagios:nagios /var/lib/shinken/{share,doc,libexec}
```

- in /etc/shinken.cfg
  - uncomment

```
shinken_user=nagios
shinken_group=nagios
```
SETUP CMDLINE TOOL

shinken --init  
shinken -l  
shinken search webui  
shinken install webui2
SET AUTHENTICATION (OPTIONAL)

```
yum install httpd-tools
htpasswd -c /etc/shinken/htpasswd.users admin # adminshinken
chown nagios:nagios /etc/shinken/htpasswd.users
```

add this in /etc/shinken/contacts/admin.cfg

```golang
define contact{
    use     generic-contact
    contact_name admin
    email    stagiaire@localhost
}
```
CHANGE PARAMETERS FOR SHINKEN WEBUI

vim /etc/shinken/modules/webui2.cfg

- change authentication to htpasswd (optional)
- change auth_secret
- change orga name (login_text)
- in contact admin add (in /etc/shinken/contacts/)

is_admin 1
ADD ORGANISATION LOGO

```
cp xstra.png /var/lib/shinken/modules/webui2/htdocs/images/
```

- add the file name for logo in
  /etc/shinken/modules/webui2.cfg
ADD DATABASE STORAGE

yum install python-bottle pymongo mongod-server
chkconfig mongod on
service mongod start
vim /etc/shinken/modules/webui2.cfg
• add mongodb in webui2.cfg

<table>
<thead>
<tr>
<th>uri</th>
<th>mongodb://localhost/?safe=false</th>
</tr>
</thead>
<tbody>
<tr>
<td>database</td>
<td>shinken</td>
</tr>
</tbody>
</table>
ADD WEBUI IN MAIN CONFIGURATION

vim /etc/shinken/brokers/broker-master.cfg

- Uncomment

modules webui2
START WEB INTERFACE

- service shinken-arbiter restart
- service shinken-broker restart

- go to http://localhost:7767
ADD METROLOGY WITH GRAPHITE

• install repo graphite from copr

```bash
wget https://copr.fedorainfracloud.org/coprs/piotrp/Graphite/repo/epel-7
mv *.repo /etc/yum.repos.d/
yum --enablerepo=piotrp-Graphite install graphite-web
```
- change virtualhost address in /etc/httpd/conf.d/graphite-web.conf
- or
- add in /etc/hosts

```
127.0.0.1 graphite-web
```
CHANGE GRAPHITE CONFIG

vim /etc/graphite-web/local_settings.py

- change SECRET_KEY=7e634920fd0 (random sequence)
- change time zone to

TIME_ZONE = 'Europe/Paris'

- Ref tuto -> warning change version of webui to version v2

shinken install graphite2
yum install graphite-web python-carbon python-whisper
service httpd start
service carbon-cache start
INIT

INIT DJANGO DATABASE

```bash
cat /usr/share/doc/graphite-web*/README*
```

- follow the README

```bash
vim /etc/shinken/brokers/broker-master.cfg
```

add

```bash
modules webui2,graphite2
```
• add Graphite to webui config

```bash
shinken install ui-graphite2
vim /etc/shinken/modules/webui2.cfg
```

```bash
add
modules ui-graphite2

in /etc/shinken/modules/ui-graphite2.cfg add
```

```bash
uri http://graphite-web/
```
CREATE

- define new template in /etc/shinken/templates/ and call it poste_stagiaire
- define new hosts in /etc/shinken/hosts/ and call them servdemo1/2
- define new hostgroup in /etc/shinken/grouphosts/ and call it salletp
ADD CLUSTER NODE BY HAND

name=servdemo1
sed "s/localhost/${name}/g" /etc/shinken/hosts/localhost.cfg > /etc/shinken/hosts/localhost.cfg
ssh ${name} "yum install net-snmp.x86_64 glances.x86_64" # or cluster-s
ADD LOCALISATION TO HOSTGROUPS

vim /etc/shinken/hosts/sevdemol.cfg

add inside the brackets

# GPS
.LOC_LAT 48.6045818 ;
.LOC_LNG 7.7118509 ;

- restart broker and in webui look in worldmap
OR ADD SERVEUR BY DISCOVERY (OPTION)

- define discovery rules in /etc/shinken/discovery_rules.cfg
- Documentation
- get configfile from github
MAKE DIRECTORY

```
mkdir /etc/shinken/discovery; cd /etc/shinken/discovery
wget https://raw.githubusercontent.com/naparuba/shinken/master/etc/discovery
mkdir /var/lib/shinken/libexec/discovery
cd /var/lib/shinken/libexec/discovery
wget https://raw.githubusercontent.com/naparuba/shinken/master/libexec/
chmod a+x *.py
```
UPDATE CONFIG FOR CENTOS

```
cd /etc/shinken/discovery/
sed 's#PLUGINSDIR#PLUGINSDIR2#g' -i.bak discovery_runs.cfg
wget https://raw.githubusercontent.com/naparuba/shinken/master/etc/resource.d/nmap.cfg
mv nmap.cfg ../resource.d/
```
in /etc/sudoers select this

```sh
#Defaults requiretty
%wheel ALL=(ALL) NOPASSWD: ALL
```

add yourself to group wheel
and finally launch the command

```
shinken-discovery -c discovery.cfg -o ../hosts/
```
OR IMPORT FROM NAGIOS (OPTION)

- documentation
OR ADD THEM WITH GLPI (OPTION)

yum install glpi-0.84

- install reference server

shinken install import-glpi

- Pack documentation
- Exist too
  - export to glpi = glpidb
  - authenticate with glpi = auth-ws-glpi
  - integrate with webui = glpi-helpdesk
ADD BASIC CHECK

shinken install linux-snmp
shinken install linux-ssh
shinken install ssh
shinken install linux-ipmi
shinken install pack-glances

- look at file structure in /etc/shinken/packs
- look at shinken.io for information on the packs
- add the check as services in templates
- or use predefined template
SSH PACK

- Add key for linux-ssh on shinken@servdemo1
- edit template on servdemo1 host config
- change PLUGINSDIR to PLUGINSDIR2 in pack command.cfg
- edit /etc/shinken/resource.d/path.cfg and add

$PLUGINSDIR2$=/var/lib/shinken/libexec
SNMP PACK

- start snmp daemon on servdemo2
- edit template on servdemo2 host config
INSTALL CHECK FOR PRINTER

- Documentation
- look at pack printer-hp
- add printer1 to /etc/hosts and /etc/shinken/hosts
INSTALL CHECK FOR THE SWITCH

- Documentation
- look at pack cisco
- add switch1 to /etc/hosts and /etc/shinken/hosts
INSTALL NSCLIENT ON SRVWIN (OPTION)

- Documentation
ADD NOTIFICATION

- Change contact email in
  /etc/shinken/contacts/nagiosadmin.cfg
- Documentation
- restart shinken