

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

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

- start daemon (optional)

```
daemon="arbiter poller reactionner scheduler broker receiver"  
for i in $daemon  
do  
    chkconfig shinken-$i on  
done  
for i in $daemon  
do  
    service shinken-$i start  
done
```

HOW TO RESTART DAEMON

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

```
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

```
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 mongodb-server  
chkconfig mongod on  
service mongod start  
vim /etc/shinken/modules/webui2.cfg
```

- add mongodb in webui2.cfg

```
uri      mongodb://localhost/?safe=false
database shinken
```

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

```
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

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

- follow the README

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

add

```
modules webui2,graphite2
```

- add Graphite to webui config

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

add

```
modules ui-graphite2
```

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

```
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/shi  
ssh ${name} "yum install net-snmp.x86_64 glances.x86_64" # or cluster-s
```

ADD LOCALISATION TO HOSTGROUPS

```
vim /etc/shinken/hosts/sevdemo1.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/disc
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#PLUGINDIR#PLUGINDIR2#g' -i.bak discovery_runs.cfg  
wget https://raw.githubusercontent.com/naparuba/shinken/master/etc/resou  
mv nmap.cfg ../resource.d/
```


in /etc/sudoers select this

```
#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 PLUGINS_DIR to PLUGINS_DIR2 in pack command.cfg
- edit /etc/shinken/resource.d/path.cfg and add

```
$PLUGINS_DIR2$=/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