

TP Icinga – Monitoring

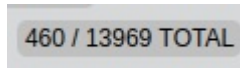
Prise en main Icinga :

1. Page : <https://nagios.debian.org/icinga/>

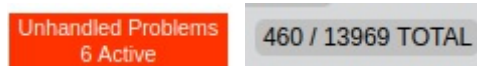
A. Il y a 256 machines monitorées sur la page Icinga de debian.org



B. Il y a 13969 services monitorés sur la page Icinga de debian.org



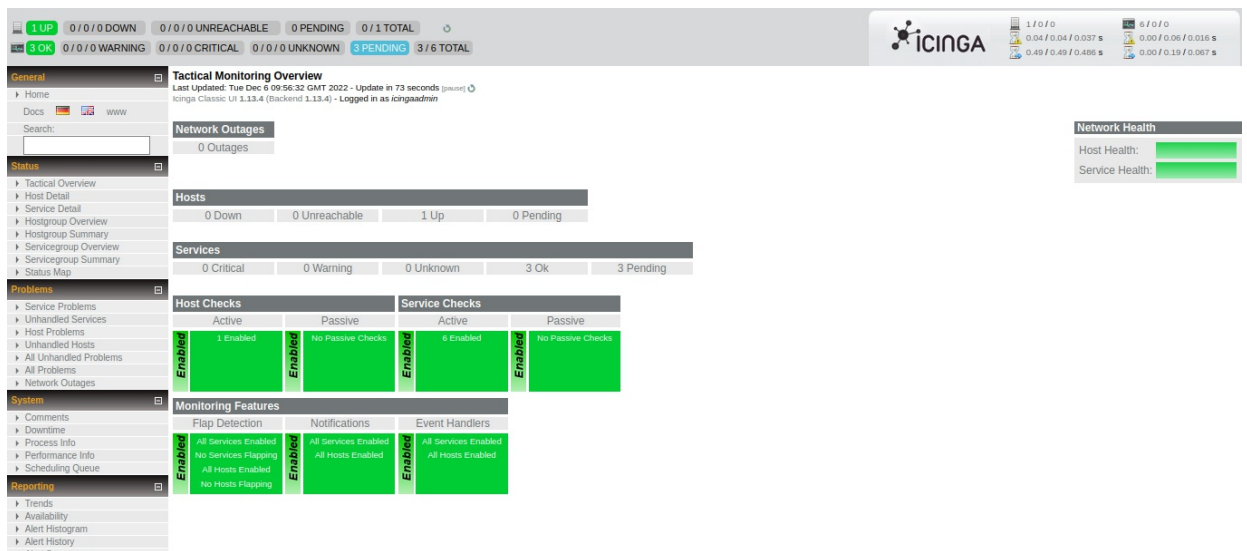
C. Oui, il y a 6 hôtes injoignables dont 460 services ayant un soucis remontés par Icinga actuellement



2. Vidéo MOOC : <https://www.fun-mooc.fr/fr/cours/supervision-de-reseaux-et-services/>

Installation d'Icinga :

1. Installation Icinga sur machine ops (voir provision.sh)
Provision.sh (extrait ops) :
Apt update
Apt upgrade -y
Apt install icinga -y
echo "icinga-common icinga/check_external_commands boolean true" | debconf-set-selections
echo "icinga-cgi icinga/adminpassword string 1234" | debconf-set-selections
echo "icinga-cgi icinga/adminpassword-repeat string 1234" | debconf-set-selections
2. <http://localhost/icinga> (user : icingaadmin / password : 1234)



Configuration Icinga :

1. Ajout monitoring de la machine web
Dans /etc/icinga/objects/web.cfg

```
define host {
    use generic-host
    host_name web.local
    alias web
}
```
2. Ajout du check_ssh

```
define service {
    host_name web.local
    use generic-service
    service_description SSH
    check_command check_ssh
    check_interval 60
}
```
3. Ajout du check_http

```
define service {
    use generic-service
    host_name web.local
    service_description HTTP
    check_command check_http
}
```
4. Ajout du monitoring de db et son serveur SSH
Dans /etc/icinga/objects/db.cfg

```
define host {
    use generic-host
    host_name db.local
    alias db
}
```

```
}
```

```
define service {  
    host_name      db.local  
    use            generic-service  
    service_description SSH  
    check_command  check_ssh  
    check_interval 60  
}
```

5. Ajout d'une check_command personnalisé pour contacter la base de données db.local.

Host	Service	Status	Last Check	Duration	Attempt	Status Information	
db.local	MySQL	OK	2022-12-13 08:37:46	0d 0h 0m 20s	1/4	Uptime: 1571 Threads: 1 Questions: 3 Slow queries: 0 Opens: 17 Flush tables: 1 Open tables: 11 Queries per second avg: 0.001	<input type="checkbox"/>
	SSH	OK	2022-12-06 10:49:22	6d 21h 48m 44s	1/4	SSH OK - OpenSSH_7.4p1 Debian-10+deb9u7 (protocol 2.0)	<input type="checkbox"/>

6. Sudo apt install mutt / mutt / Naviguer dans les messages

```
1:Exit 2:PrevPg 3:Space=NextPg 4:View Attache 5:del 6:Reply 7:Next 8:Help  
  
***** Icinga *****  
  
Notification Type: RECOVERY  
  
Service: MySQL  
Host: db  
Address: db.local  
State: OK  
  
Date/Time: Tue Dec 13 08:37:56 GMT 2022  
  
Additional Info:  
  
Uptime: 1571 Threads: 1 Questions: 3 Slow queries: 0 Opens: 17 Flush tables: 1 Open tables: 11 Queries per second avg: 0.001
```

7. Arrêt du service MariaDB

Host	Service	Status	Last Check	Duration	Attempt	Status Information	
db.local	MySQL	CRITICAL	2022-12-13 09:04:02	0d 0h 0m 11s	1/4	Can't connect to MySQL server on 'db.local' (111 "Connection refused")	<input type="checkbox"/>

8. Installation et configuration de check_disk

Host	Service	Status	Last Check	Duration	Attempt	Status Information	
db.local	Disk	CRITICAL	2022-12-13 09:14:04	0d 0h 0m 15s	1/4	DISK CRITICAL - free space: /dev 172 MB (100% inode=99%); /run 33 MB (92% inode=98%); / 16249 MB (91% inode=94%); /dev/shm 183 MB (100% inode=99%); /run/lock 5 MB (100% inode=99%); /sys/fs/cgroup 183 MB (100% inode=99%); /vagrant 157214 MB (69% inode=100%);	<input checked="" type="checkbox"/>

9. Sudo nano /etc/nagios/nrpe.cfg —> allowed_hosts=10.0.0.4

10. Configuration dans web.cfg et db.cfg de check_nrpe

Host	Service	Status	Last Check	Duration	Attempt	Status Information	
db.local	Disk	OK	2022-12-13 10:42:02	0d 0h 1m 47s	1/4	DISK OK - free space: /dev 172 MB (100% inode=99%);	<input type="checkbox"/>
	Load	OK	2022-12-13 10:41:18	0d 0h 2m 31s	1/4	OK - load average: 0.00, 0.00, 0.00	<input type="checkbox"/>
	MySQL	OK	2022-12-13 10:28:54	0d 1h 29m 55s	1/4	Uptime: 2964 Threads: 2 Questions: 228 Slow queries: 0 Opens: 28 Flush tables: 1 Open tables: 22 Queries per second avg: 0.076	<input type="checkbox"/>
	Process	OK	2022-12-13 10:41:18	0d 0h 2m 31s	1/4	PROCS OK: 78 processes	<input type="checkbox"/>
	SSH	OK	2022-12-13 09:39:59	6d 23h 54m 27s	1/4	SSH OK - OpenSSH_7.4p1 Debian-10+deb9u7 (protocol 2.0)	<input type="checkbox"/>
	Users	OK	2022-12-13 10:41:18	0d 0h 2m 31s	1/4	USERS OK - 1 users currently logged in	<input type="checkbox"/>
localhost	Current Load	OK	2022-12-13 10:43:25	7d 0h 49m 29s	1/4	OK - load average: 0.00, 0.03, 0.00	<input type="checkbox"/>
	Current Users	OK	2022-12-13 10:29:35	7d 0h 48m 39s	1/4	USERS OK - 1 users currently logged in	<input type="checkbox"/>
	Disk Space	OK	2022-12-13 10:31:38	7d 0h 47m 49s	1/4	DISK OK	<input type="checkbox"/>
	HTTP	OK	2022-12-13 10:31:35	7d 0h 46m 59s	1/4	HTTP OK: HTTP/1.1 200 OK - 10975 bytes in 0.002 second response time	<input type="checkbox"/>
	SSH	OK	2022-12-13 10:31:23	7d 0h 46m 9s	1/4	SSH OK - OpenSSH_7.4p1 Debian-10+deb9u7 (protocol 2.0)	<input type="checkbox"/>
	Total Processes	OK	2022-12-13 10:31:11	7d 0h 45m 19s	1/4	PROCS OK: 79 processes	<input type="checkbox"/>
web.local	Disk	OK	2022-12-13 10:41:18	0d 0h 2m 31s	1/4	DISK OK - free space: /dev 172 MB (100% inode=99%);	<input type="checkbox"/>
	HTTP	OK	2022-12-13 10:28:54	0d 1h 29m 55s	1/4	HTTP OK: HTTP/1.1 200 OK - 85359 bytes in 0.188 second response time	<input type="checkbox"/>
	Load	OK	2022-12-13 10:41:18	0d 0h 2m 31s	1/4	OK - load average: 0.00, 0.00, 0.00	<input type="checkbox"/>
	Process	OK	2022-12-13 10:41:18	0d 0h 2m 31s	1/4	PROCS OK: 80 processes	<input type="checkbox"/>
	SSH	OK	2022-12-13 10:43:11	7d 0h 3m 58s	1/4	SSH OK - OpenSSH_7.4p1 Debian-10+deb9u7 (protocol 2.0)	<input type="checkbox"/>
	Users	OK	2022-12-13 10:43:38	0d 0h 0m 11s	1/4	USERS OK - 1 users currently logged in	<input type="checkbox"/>

Écriture de plugins :

1. check_arche.sh dans le dossier du projet
2. cp /vagrant/check_arche.sh /usr/lib/nagios/plugins/