



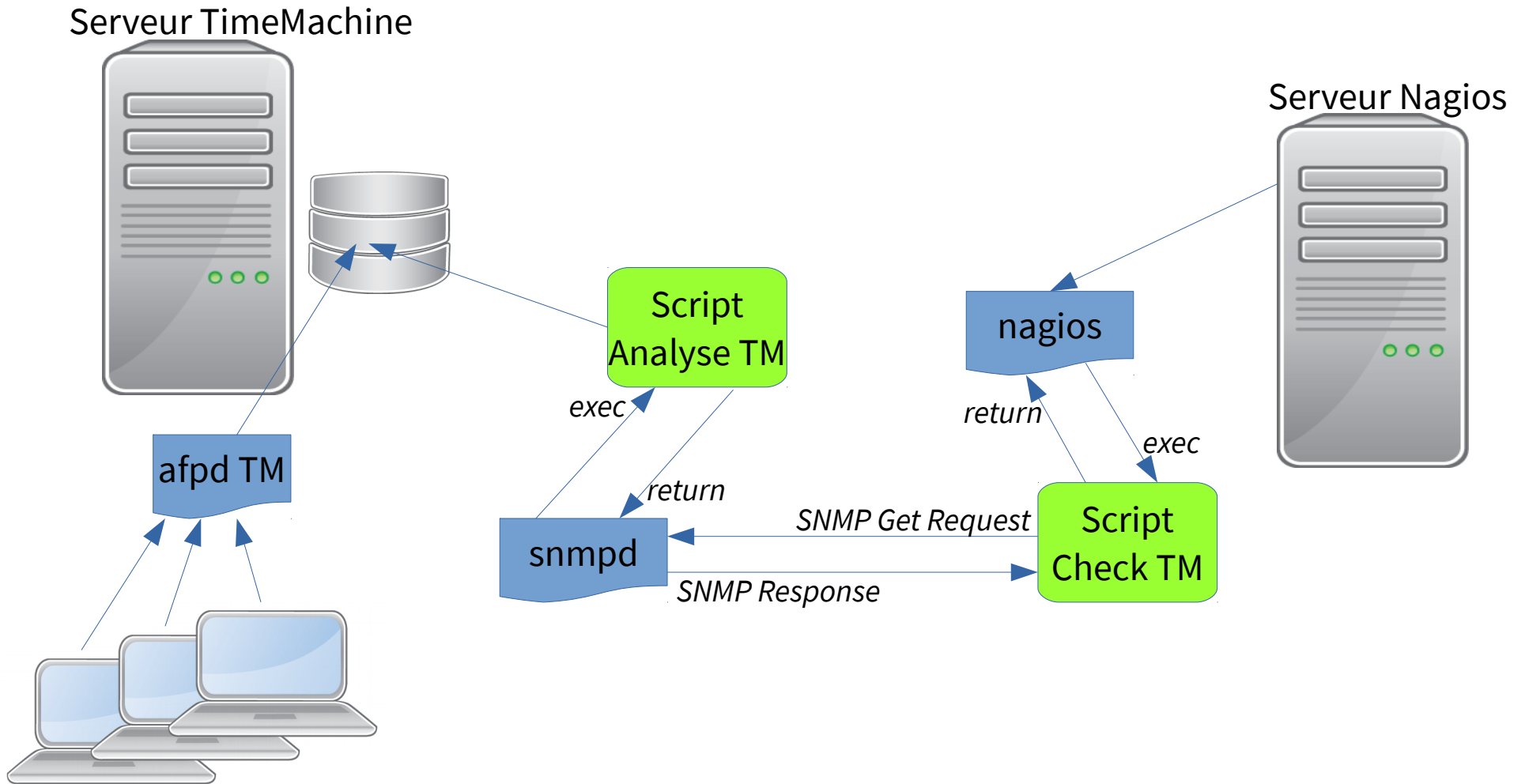
Exécuter un script via SNMP et récupérer les résultats pour gérer des alertes dans Nagios

ALAIN SARTOUT – X/STRA

[Nagios] alertes pour les sauvegardes time machine qui échouent

- **Problème** : récupérer dans Nagios une alerte si une sauvegarde TimeMachine échoue sur base corrompue
(indicateur → le répertoire utilisateur contient [backupname].purgeable)
- **Contrainte** : utiliser le protocole SNMP pour communiquer entre Nagios et le serveur de backup
- **Solution** : *snmpd* sur le serveur de backup exécute un script, met à jour une OID spécifique (.1.3.6.1.4.1.2021.8) et retourne les infos à un script Nagios

Schéma de principe



Sur le serveur TimeMachine, configuration de /etc/snmp/snmpd.conf

```
# Executables/scripts
#
# You can also have programs run by the agent that return a single
# line of output and an exit code.
# exec NAME PROGRAM [ARGS ...]
#
# NAME:      A generic name. The name must be unique for each exec
statement.
# PROGRAM:   The program to run. Include the path!
# ARGS:      optional arguments to be passed to the program
exec timemachine_test /bin/bash /root/bin/timemachine_nagios
```

Le script exécuté par snmpd : /root/bin/timemachine_nagios

```
#!/bin/bash

# check time machine status for NAGIOS - BAD if purgeabled
# A.S. 13/09/2021

destination="/dell_vol0/scratch/timemachine"
ok_string=""
nok_string=""
nok_value=0

cd ${destination} # Time machine backup dir location
for dir in *      # For all users using time machine backup solution
do
    pattern="${dir}/*purgeable*"
    if ls $pattern 1>/dev/null 2>&1 # Case of corrupted backup
        then
            let "nok_value++"
            nok_string="$nok_string WARNING:$dir"
        else
            # Backup OK, store last backup date
            date=`stat $dir |grep Modif|cut -c 15-25`
            ok_string="$ok_string $dir($date)"
        fi
done

echo "$nok_string $ok_string" # Result string for Nagios comment
exit $nok_value             # Number ok purgeable account for Nagios
```

Tester la requête SNMP

```
root@sprv:/etc/nagios# snmpwalk -c public -v2c file .1.3.6.1.4.1.2021.8
```

```
UCD-SNMP-MIB::extIndex.1 = INTEGER: 1
```

```
UCD-SNMP-MIB::extNames.1 = STRING: timemachine_test
```

```
UCD-SNMP-MIB::extCommand.1 = STRING: /bin/bash /root/bin/timemachine_nagios
```

```
UCD-SNMP-MIB::extResult.1 = INTEGER: 0
```

```
UCD-SNMP-MIB::extOutput.1 = STRING: bibbck(10-05 14:16) boileau(10-05 08:30)  
cirk(10-05 15:17) maurer(10-05 14:58) palatick(10-05 14:41) sartout(10-05  
15:02) schmitt(10-05 14:47)
```

```
UCD-SNMP-MIB::extErrFix.1 = INTEGER: noError(0)
```

```
UCD-SNMP-MIB::extErrFixCmd.1 = STRING:
```

Configuration commands.cfg (Nagios)

```
### check time machine result (AS script on file result of snmpd exec)
```

```
define command{
```

```
    command_name      check_time_machine_afp
```

```
    command_line     $USER1$/check_timemachine $HOSTADDRESS$ 1 2
```

```
}
```

```
define service {
```

```
    use                generic-service
```

```
    host_name          file
```

```
    service_description time machine on afp
```

```
    check_command     check_time_machine_afp
```

```
}
```

Le script Nagios check_timemachine

```
#!/bin/bash

#
# Alain Sartout
# Nagios plugin : check if timemachine folder are OK
# V2 24/08/11
```

```
COMMAND_NAME=$0
```

```
#
# Commande usage
#
```

```
if [ $# -lt 3 ]
    then echo "usage : $COMMAND_NAME @IpHost
WarningNb CriticalNb"
    exit 3
fi
```

```
HOST=$1
WARNING=$2
CRITICAL=$3
```

```
# get integer number of NOK value
NOK=`snmpget -c public -v 1 $HOST UCD-SNMP-
MIB::extResult.1 -Ov |sed s/INTEGER:\ //`
```

```
# get monitored timemachine users list
USERS=`snmpget -c public -v 1 $HOST UCD-SNMP-
MIB::extOutput.1 -Ov |sed s/STRING:\ //`
```

```
# get script error... if exist :-)
ERRORmsg=`snmpget -c public -v 1 $HOST UCD-
SNMP-MIB::extErrFixCmd.1 -Ov |sed s/STRING:\ //`
```

```
# returning Nagios string value and script value : 0=OK,
1=Warning, 2=Critical, 3 Unknow
```

```
if [[ $ERRORmsg ]]
    then echo "$ERRORmsg"
    exit 3
fi
```

```
echo "$USERS"
if [[ $NOK -ge $CRITICAL ]]
    then exit 2
elif [[ $NOK -lt $WARNING ]]
    then exit 0
else
    exit 1
fi
```


Résultat dans la vue Nagios

time machine on afp

OK

10-04-2021 16:07:05

19d 1h 15m 12s

1/3

bibbck(10-04 15:18) boileau(10-04 14:31) cirk(10-04 16:06) maurer(10-04 16:02) palatick(10-04 15:41) sartout(10-04 16:02) schmitt(10-04 15:47)