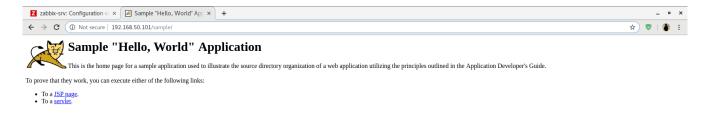
--- Day 02 ---

1: Zabbix WEB

Tasks:

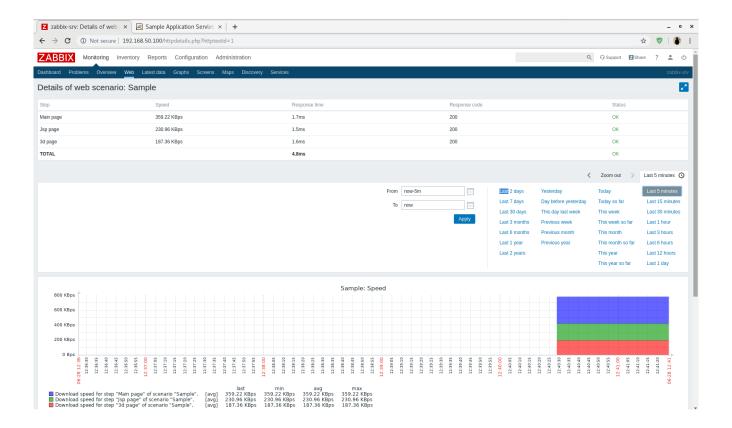
Configure WEB check:

1. Scenario to test Tomcat availability as well as Application heath



Picture 1

2. Configure Triggers to alert once WEB resources become unavailable



Picture 2.1

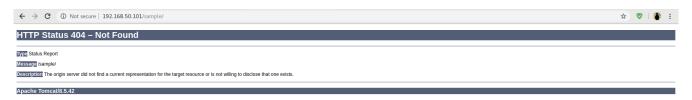


Picture 2.2

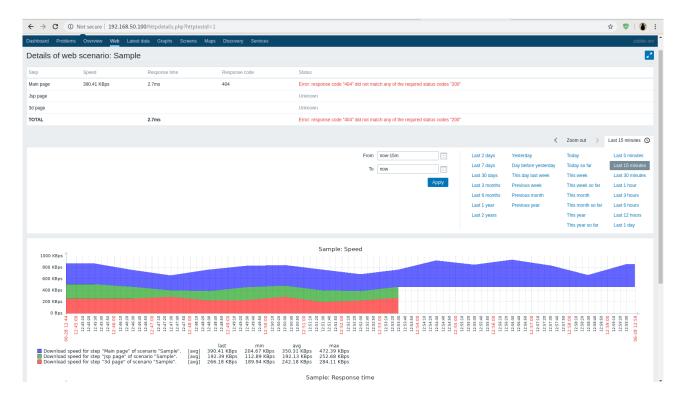
3. Stop simple.war



Picture 3.1



Picture 3.2

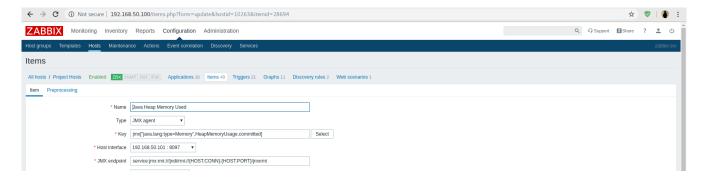


Picture 3.3

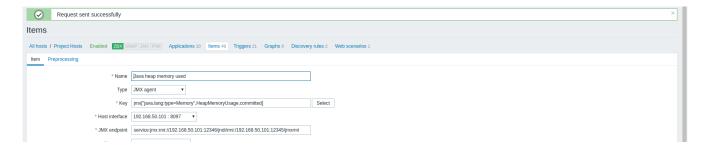
2: Zabbix JAVA

Tasks:

1. Configure Zabbix to examine Java parameters via Java Gateway (http://jmxmonitor.sourceforge.net/jmx.html)

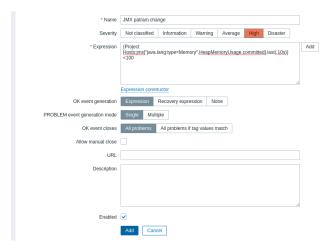


Picture 4.1

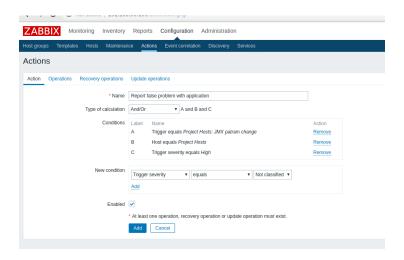


Picture 4.2

2. Configure triggers to alert once these parameters changed.



Picture 5.1

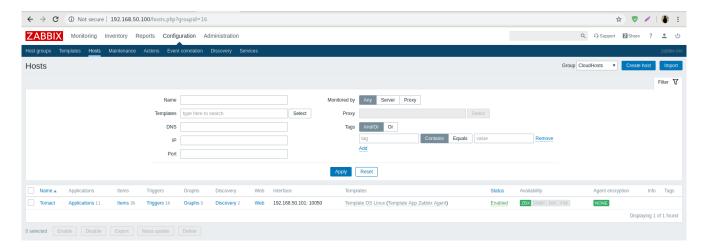


Picture 5.2

3: Zabbix API

Registering Script requirements: Written on Python 2.x

- 1. Starts at VM startup or on provision phase
- 2. Host registered in Zabbix server should have Name = Hostname (not IP)
- 3. Host registered in Zabbix server should belong to "CloudHosts" group
- 4. Host registered in Zabbix server should be linked with Custom template
- 5. This script should create group "CloudHosts" id it doesn't exist



Picture 6.1

Listing main.py:

```
import requests, json
from requests.auth import HTTPBasicAuth

zabbix_server = "192.168.50.100"
zabbix_api_admin_name = "Admin"
zabbix_api_admin_password = "zabbix"

def post(request):
    headers = {'content-type': 'application/json'}
    return requests.post(
        "http://" + zabbix_server + "/api_jsonrpc.php",
        data=json.dumps(request),
        headers=headers,
        auth=HTTPBasicAuth(zabbix_api_admin_name, zabbix_api_admin_password)
    )

auth_token = post({
        "jsonrpc": "2.0",
        "method": "user.login",
        "params": {
            "user": zabbix api admin name,
```

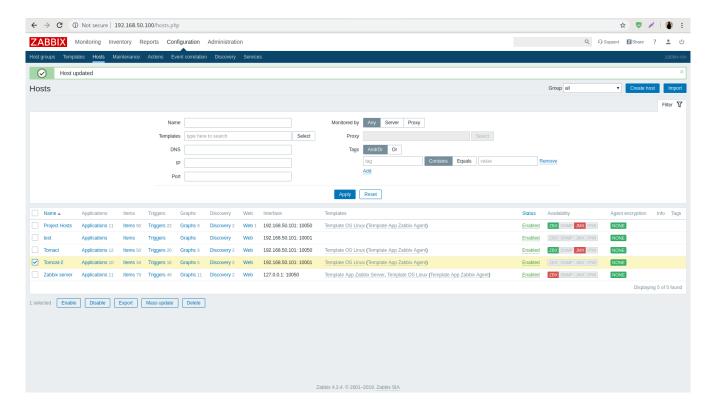
```
'password": zabbix_api_admin_password
).json()["result"]
def register_group(groupname="CloudHosts"):
    post({
             "name": groupname
         "auth": auth_token,
    })
def register_host(hostname="Tomcat", ip="192.168.50.101"):
    post({
             "host": hostname,
             }],
             "interfaces": [{
             }],
         "auth": auth token,
```

Another version:

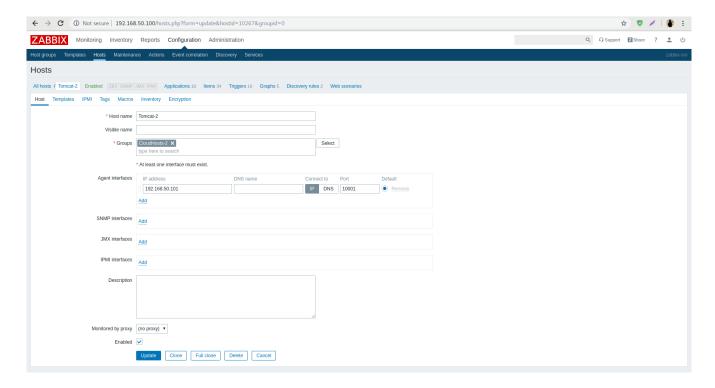
```
from pyzabbix import ZabbixAPI

zapi = ZabbixAPI("http://192.168.50.100")
zapi.login("Admin", "zabbix")

zapi.hostgroup.create({
    "name": "CloudHosts-2"
```



Picture 6.2



Picture 6.3