# COMP.SE.140 - Exercise 6: Ansible

#### **Initial commands**

- Running 1<sup>st</sup> docker container
- Inspecting the IP address
- Setting the IP address as host

```
ubuntu@ip-172-31-92-112:-/ansible/docker-compose-cs$ sudo docker run -d ssh-image
61054feafcc6elefe0be37f6acba86aldd9bc225930ef4bdcc43080dca6a40e4
ubuntu@ip-172-31-92-112:-/ansible/docker-compose-cs$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
61054feafcc6 ssh-image "/usr/sbin/sshd -D" 7 seconds ago Up 6 seconds 22/tcp zealous_mcnulty
ubuntu@ip-172-31-92-112:-/ansible/docker-compose-cs$ sudo docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' 61054feafcc6
172.17.0.2
ubuntu@ip-172-31-92-112:-/ansible/docker-compose-cs$
```

PLAY [all]

ubuntu@ip-172-31-92-112:-/ansible/docker-compose-cs\$ sudo ansible-playbook -i /home/ubuntu/config/ansible\_hosts playbook.yml

\*

TASK [Gathering Facts] ************************************
TASK [Check if GIT is installed] ************************************
TASK [get uptime] ************************************
TASK [debug] **  ok: [host1] => {     "msg": [         "Server uptime : [' 21:48:24 up 2 days, 9:54, 1 user, load average: 0.00, 0.01, 0.00']",      "IS GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '  Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend',      Err?=(none)/Reinst-required (Status,Err: uppercase=bad)', '  / Name
PLAY RECAP ************************************
**************************************
**************************************
TASK [Check if GIT is installed] ************************************
**************
changed: [host1]
TASK [get uptime]
*************************

```
changed: [host1]
TASK [debug]
***********************
ok: [host1] => {
  "msg": [
    "Server uptime : [' 21:48:24 up 2 days, 9:54, 1 user, load average: 0.00, 0.01, 0.00']",
    "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '| Status=Not/Inst/Conf-
files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-pend', '|/ Err?=(none)/Reinst-required (Status,Err:
uppercase=bad)', '| |/ Name
                                            Architecture Description', '+++-=========
                              Version
                                        fast, scalable, distributed revision control system']"
'ii git
          1:2.17.1-1ubuntu0.13 amd64
PLAY RECAP
host1
               : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

PLAY [all]
*******************************
***********

```
TASK [Gathering Facts]
*************************************
*****************
ok: [host1]
TASK [Check if GIT is installed]
***********************************
   ***********
changed: [host1]
TASK [get uptime]
******************
changed: [host1]
TASK [debug]
************************************
   *********************
ok: [host1] => {
 "msg": [
  "Server uptime : [' 21:49:38 up 2 days, 9:55, 1 user, load average: 0.00, 0.00, 0.00']",
  "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '| Status=Not/Inst/Conf-
files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-pend', '|/ Err?=(none)/Reinst-required (Status,Err:
uppercase=bad)', '| |/ Name
                            Architecture Description', '+++-=========
                    Version
'ii git
       1:2.17.1-1ubuntu0.13 amd64
                          fast, scalable, distributed revision control system']"
 1
PLAY RECAP
***********************
host1
          : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

TASK [Gathering Facts] ************************************
TASK [Check if GIT is installed] ************************************
TASK [get uptime] ************************************
Ask: [debug] -> {     "msg": [     "Server uptime : [' 21:53:22 up 2 days, 9:59, 1 user, load average: 0.16, 0.04, 0.01']",     "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '  Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend',     Err?=(none)/Reinst-required (Status,Err: uppercase=bad)', '  / Name
} } } bk: [host2] => {     "msg": [     "Server uptime : [' 21:53:22 up 2 days, 9:59, 1 user, load average: 0.16, 0.04, 0.01']",     "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '  Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend',     Err?=(none)/Reinst-required (Status,Err: uppercase=bad)', '  / Name
PLAY RECAP
host1 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0 host2 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
PLAY [all] ***********************************
*******
TASK [Gathering Facts] ************************************
************
ok: [host1]
ok: [host2]
TASK [Check if GIT is installed] ************************************
******
changed: [host2]
changed: [host1]
TASK [get uptime] ************************************
********
changed: [host1]
changed: [host2]
TASK [debug] ************************************
**************************************

```
ok: [host1] => {
 "msq": [
   "Server uptime : [' 21:53:22 up 2 days, 9:59, 1 user, load average: 0.16, 0.04, 0.01']",
   "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '| Status=Not/Inst/Conf-
files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-pend', '|/ Err?=(none)/Reinst-required (Status,Err:
uppercase=bad)', '| |/ Name
                           Version
                                       Architecture Description', '+++-=========
fast, scalable, distributed revision control system']"
'ii ait
         1:2.17.1-1ubuntu0.13 amd64
 1
}
ok: [host2] => {
 "msg": [
   "Server uptime : [' 21:53:22 up 2 days, 9:59, 1 user, load average: 0.16, 0.04, 0.01']",
   "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '| Status=Not/Inst/Conf-
files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend', '|/ Err?=(none)/Reinst-required (Status,Err:
uppercase=bad)', '||/ Name
                                       Architecture Description', '+++-=========
                           Version
1:2.17.1-1ubuntu0.13 amd64
                                    fast, scalable, distributed revision control system']"
'ii git
 1
}
PLAY RECAP
**********************
host1
             : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
host2
             : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

PLAY (all)
TASK [Gathering Facts] ************************************
TASK [Check if GIT is installed] ************************************
TASK [get uptime] changed: [host1] changed: [host2]
TASK [debug] ok: [host1] => {     "msg": [         "Server uptime : [' 21:54:22 up 2 days, 10:00, 1 user, load average: 0.22, 0.06, 0.02']",         ""s GIT installed: ['Desired=Unknown/Install/kemove/Purge/Hold', '  Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend', Err?=(none)/Reinst-required (Status,Err: uppercase=bad)', '  / Name
', 'ii git 1:2.17.1-lubuntu0.13 amd64 fast, scalable, distriburevision control system']"
/ ok: [host2] => {     "msg": [     "Server uptime : [' 21:54:22 up 2 days, 10:00, 1 user, load average: 0.22, 0.06, 0.02']",     "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '  Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend',     Err?=(none)/Reinst-required (Status,Err: uppercase=bad)', '   / Name
revision control system']"
PLAY RECAP ************************************
PLAY [all]
**************************************
TASK [Gathering Facts]  ***********************************
ok: [host2]
ok: [host1]
TASK [Check if GIT is installed]  ***********************************
******************
changed: [host2]
changed: [host1]
TASK [get uptime]  ***********************************
********
changed: [host1]
changed: [host2]
TASK [debug] ************************************
**********

```
ok: [host1] => {
 "msq": [
   "Server uptime : [' 21:54:22 up 2 days, 10:00, 1 user, load average: 0.22, 0.06, 0.02']",
   "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '| Status=Not/Inst/Conf-
files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend', '|/ Err?=(none)/Reinst-required (Status,Err:
uppercase=bad)', '| |/ Name
                           Version
                                       Architecture Description', '+++-=========
fast, scalable, distributed revision control system']"
'ii ait
         1:2.17.1-1ubuntu0.13 amd64
 1
}
ok: [host2] => {
 "msg": [
   "Server uptime : [' 21:54:22 up 2 days, 10:00, 1 user, load average: 0.22, 0.06, 0.02']",
   "Is GIT installed: ['Desired=Unknown/Install/Remove/Purge/Hold', '| Status=Not/Inst/Conf-
files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend', '|/ Err?=(none)/Reinst-required (Status,Err:
uppercase=bad)', '||/ Name
                                       Architecture Description', '+++-=========
                           Version
1:2.17.1-1ubuntu0.13 amd64
                                   fast, scalable, distributed revision control system']"
'ii git
 1
PLAY RECAP
*********************
             : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
host1
host2
             : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

• Analyze: is the output of uptime-command as expected. If not, why?

Uptime command was always given the host machine uptime through the ansible output. This is the reason in the  $3^{rd}$  and  $4^{th}$  outputs we got the same uptime for both docker containers.

• Comments on what was easy and what was difficult.

Configuring open ssh socker image was hard for the macOS due to its network limitations. Due to this, I completed these exercises on AWS EC2 instance.