LAB 3

ULUGBEK SATTAROV – 101451916

```
Last login: Sat Mar  9 18:20:15 on ttys001
macbook@Ulugbek-2 ~ % docker ps -a
CONTAINER ID   IMAGE                                      COMMAND                  CREATED       STATUS                    PORTS                    NAMES
4fccf7223430   nginx                                      "/docker-entrypoint…"    2 days ago    Up 2 days                 0.0.0.0:8080->80/tcp     nginx-container
2c98b0931f34   schadokar/eth-react:1.0.0                  "/docker-entrypoint…"    5 weeks ago   Exited (0) 4 weeks ago                             docker-ethereum-react-1
383451980b77   schadokar/eth-server:1.0.0                 "npm start"              5 weeks ago   Exited (143) 5 weeks ago                           docker-ethereum-dapp-1
476912a7b052   schadokar/eth-ganache:1.0.0                "docker-entrypoint.s…"   5 weeks ago   Exited (0) 5 weeks ago                             docker-ethereum-ganache-1
e70bfa8ef470   gcr.io/k8s-minikube/kicbase:v0.0.42        "/usr/local/bin/entr…"   6 weeks ago   Exited (130) 4 weeks ago                           minikube
4df61d896355   example-voting-app-seed                    "/bin/sh -c /seed/ge…"   7 weeks ago   Exited (0) 7 weeks ago                             example-voting-app-seed-1
```

```
macbook@Ulugbek-2 ~ % docker start Lab3
Lab3
```

```
macbook@Ulugbek-2 ~ % docker exec -it Lab3 bash
root@95314447de42:/# whoami
root
root@95314447de42:/# ansible --version
```

```
root@95314447de42:/# apt-get update && apt-get install -y ansible
Get:1 http://ports.ubuntu.com/ubuntu-ports bionic InRelease [242 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports bionic-updates InRelease [88.7 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports bionic-backports InRelease [83.3 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports bionic-security InRelease [88.7 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports bionic/multiverse arm64 Packages [153 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports bionic/main arm64 Packages [1285 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports bionic/universe arm64 Packages [11.0 MB]
Get:8 http://ports.ubuntu.com/ubuntu-ports bionic/restricted arm64 Packages [572 B]
Get:9 http://ports.ubuntu.com/ubuntu-ports bionic-updates/main arm64 Packages [2309 kB]
Get:10 http://ports.ubuntu.com/ubuntu-ports bionic-updates/multiverse arm64 Packages [5349 B]
Get:11 http://ports.ubuntu.com/ubuntu-ports bionic-updates/universe arm64 Packages [2161 kB]
Get:12 http://ports.ubuntu.com/ubuntu-ports bionic-updates/restricted arm64 Packages [6338 B]
Get:13 http://ports.ubuntu.com/ubuntu-ports bionic-backports/universe arm64 Packages [20.1 kB]
Get:14 http://ports.ubuntu.com/ubuntu-ports bionic-backports/main arm64 Packages [64.0 kB]
Get:15 http://ports.ubuntu.com/ubuntu-ports bionic-security/multiverse arm64 Packages [2759 B]
Get:16 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe arm64 Packages [1469 kB]
Get:17 http://ports.ubuntu.com/ubuntu-ports bionic-security/restricted arm64 Packages [5659 B]
Get:18 http://ports.ubuntu.com/ubuntu-ports bionic-security/main arm64 Packages [1944 kB]
Fetched 20.9 MB in 6s (3414 kB/s)
Reading package lists... Done
```

```
root@95314447de42:/# ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
/root/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /root/.ssh/id_rsa.
Your public key has been saved in /root/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:1COztkasByXHDy+qY/+oTBTiR8SP9S3njFdu+dREEHM root@95314447de42
The key's randomart image is:
+---[RSA 4096]----+
|  . .          +oE|
|  .. . .        o.|
| . o+..O.o    .  |
| . o...*oBo..  .|
| . o . S*oo . o |
|   o   *.o+ + . .|
|    . o +. . o   |
|   oo. +      .  |
|    .++o..       |
+----[SHA256]-----+
```

```
root@95314447de42:/# ansible --version
ansible 2.5.1
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/root/.ansible/plugins/modules', u'/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python2.7/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 2.7.17 (default, Mar  8 2023, 18:40:28) [GCC 7.5.0]
```

2

```
macbook@Ulugbek-2 ~ % docker exec -it lab3_1 bash
Error response from daemon: No such container: lab3_1
macbook@Ulugbek-2 ~ % docker run -d --name Lab3_1 -it ubuntu:18.04
e7e55c106e6542e37b98301740efd51eef2f04447e267d66283774394ebe6f5f
macbook@Ulugbek-2 ~ % docker exec -it lab3_1 bash
Error response from daemon: No such container: lab3_1
macbook@Ulugbek-2 ~ % docker exec -it lab3_1 bash
Error response from daemon: No such container: lab3_1
macbook@Ulugbek-2 ~ % docker start Lab3_1
Lab3_1
macbook@Ulugbek-2 ~ % docker exec -it lab3_1 bash
Error response from daemon: No such container: lab3_1
macbook@Ulugbek-2 ~ % docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS                    NAMES
e7e55c106e65   ubuntu:18.04   "/bin/bash"              47 seconds ago   Up 46 seconds                            Lab3_1
95314447de42   ubuntu:18.04   "/bin/bash"              18 hours ago     Up 18 hours                              Lab3
4fccf7223430   nginx          "/docker-entrypoint…"    3 days ago       Up 3 days       0.0.0.0:8080->80/tcp     nginx-container
macbook@Ulugbek-2 ~ % docker exec -it Lab3_1 bash
root@e7e55c106e65:/#
```

```
macbook@Ulugbek-2 ~ % docker exec -it Lab3_1 bash
root@e7e55c106e65:/# ansible --version
bash: ansible: command not found
root@e7e55c106e65:/# apt-get update && apt-get install -y ansible
Get:1 http://ports.ubuntu.com/ubuntu-ports bionic InRelease [242 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports bionic-updates InRelease [88.7 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports bionic-backports InRelease [83.3 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports bionic-security InRelease [88.7 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports bionic/main arm64 Packages [1285 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports bionic/restricted arm64 Packages [572 B]
Get:7 http://ports.ubuntu.com/ubuntu-ports bionic/universe arm64 Packages [11.0 MB]
Get:8 http://ports.ubuntu.com/ubuntu-ports bionic/multiverse arm64 Packages [153 kB]
Get:9 http://ports.ubuntu.com/ubuntu-ports bionic-updates/restricted arm64 Packages [6338 B]
Get:10 http://ports.ubuntu.com/ubuntu-ports bionic-updates/main arm64 Packages [2309 kB]
Get:11 http://ports.ubuntu.com/ubuntu-ports bionic-updates/multiverse arm64 Packages [5349 B]
Get:12 http://ports.ubuntu.com/ubuntu-ports bionic-updates/universe arm64 Packages [2161 kB]
Get:13 http://ports.ubuntu.com/ubuntu-ports bionic-backports/main arm64 Packages [64.0 kB]
Get:14 http://ports.ubuntu.com/ubuntu-ports bionic-backports/universe arm64 Packages [20.1 kB]
Get:15 http://ports.ubuntu.com/ubuntu-ports bionic-security/universe arm64 Packages [1469 kB]
Get:16 http://ports.ubuntu.com/ubuntu-ports bionic-security/multiverse arm64 Packages [2759 B]
Get:17 http://ports.ubuntu.com/ubuntu-ports bionic-security/restricted arm64 Packages [5659 B]
Get:18 http://ports.ubuntu.com/ubuntu-ports bionic-security/main arm64 Packages [1944 kB]
Fetched 20.9 MB in 7s (3109 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  ca-certificates file ieee-data krb5-locales libexpat1 libgssapi-krb5-2 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libpsl5 libpython-stdlib libpython2.7-minimal
  libpython2.7-stdlib libreadline7 libsqlite3-0 libssl1.1 libyaml-0-2 mime-support openssl publicsuffix python python-asn1crypto python-certifi python-cffi-backend python-chardet python-crypto python-cr
  python-enum34 python-httplib2 python-idna python-ipaddress python-jinja2 python-jmespath python-kerberos python-libcloud python-lockfile python-markupsafe python-minimal python-netaddr python-openssl
  python-paramiko python-pkg-resources python-pyasn1 python-requests python-selinux python-simplejson python-six python-urllib3 python-xmltodict python-yaml python2.7 python2.7-minimal readline-common w
  xz-utils
Suggested packages:
  cowsay sshpass krb5-doc krb5-user python-doc python-tk python-crypto-doc python-cryptography-doc python-cryptography-vectors python-enum34-doc python-jinja2-doc python-lockfile-doc ipython python-net
  python-openssl-doc python-openssl-dbg python-gssapi python-setuptools python-socks python-ntlm python2.7-doc binutils binfmt-support readline-doc
Recommended packages:
  python-winrm
The following NEW packages will be installed:
  ansible ca-certificates file ieee-data krb5-locales libexpat1 libgssapi-krb5-2 libk5crypto3 libkeyutils1 libkrb5-3 libkrb5support0 libmagic-mgc libmagic1 libpsl5 libpython-stdlib libpython2.7-minimal
  libpython2.7-stdlib libreadline7 libsqlite3-0 libssl1.1 libyaml-0-2 mime-support openssl publicsuffix python python-asn1crypto python-certifi python-cffi-backend python-chardet python-crypto python-cr
  python-enum34 python-httplib2 python-idna python-ipaddress python-jinja2 python-jmespath python-kerberos python-libcloud python-lockfile python-markupsafe python-minimal python-netaddr python-openssl
  python-paramiko python-pkg-resources python-pyasn1 python-requests python-selinux python-simplejson python-six python-urllib3 python-xmltodict python-yaml python2.7 python2.7-minimal readline-common w
  xz-utils
0 upgraded, 59 newly installed, 0 to remove and 1 not upgraded.
Need to get 15.6 MB of archives.
After this operation, 95.3 MB of additional disk space will be used.
Get:1 http://ports.ubuntu.com/ubuntu-ports bionic-updates/main arm64 libpython2.7-minimal arm64 2.7.17-1~18.04ubuntu1.11 [335 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports bionic-updates/main arm64 python2.7-minimal arm64 2.7.17-1~18.04ubuntu1.11 [1140 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports bionic/main arm64 python-minimal arm64 2.7.15~rc1-1 [28.1 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports bionic-updates/main arm64 libssl1.1 arm64 1.1.1-1ubuntu2.1~18.04.23 [1063 kB]
```

1/

```
root@95314447de42:/# service ssh status
ssh: unrecognized service
root@95314447de42:/# apt install -y openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  dbus dmsetup gir1.2-glib-2.0 libapparmor1 libargon2-0 libcap2 libcryptsetup12 libdbus-1-3 libdevmapper1.02.1 libgirepository-1.0-1 libglib2.0-0 libglib2.0-data libicu60 libidn11 libip4tc0 libjson-c3 l
  libmpdec2 libnss-systemd libpam-systemd libpython3-stdlib libpython3.6-minimal libpython3.6-stdlib libwrap0 libxml2 ncurses-term networkd-dispatcher openssh-sftp-server python3 python3-certifi python3
  python3-dbus python3-gi python3-idna python3-minimal python3-pkg-resources python3-requests python3-six python3-urllib3 python3.6 python3.6-minimal shared-mime-info ssh-import-id systemd systemd-sysv
  xdg-user-dirs
Suggested packages:
  default-dbus-session-bus | dbus-session-bus iw | wireless-tools molly-guard monkeysphere rssh ssh-askpass ufw python3-doc python3-tk python3-venv python-dbus-doc python3-dbus-dbg python3-setuptools
  python3-cryptography python3-openssl python3-socks python3.6-venv python3.6-doc binutils binfmt-support systemd-container policykit-1
The following NEW packages will be installed:
  dbus dmsetup gir1.2-glib-2.0 libapparmor1 libargon2-0 libcap2 libcryptsetup12 libdbus-1-3 libdevmapper1.02.1 libgirepository-1.0-1 libglib2.0-0 libglib2.0-data libicu60 libidn11 libip4tc0 libjson-c3 l
  libmpdec2 libnss-systemd libpam-systemd libpython3-stdlib libpython3.6-minimal libpython3.6-stdlib libwrap0 libxml2 ncurses-term networkd-dispatcher openssh-server openssh-sftp-server python3 python3-
  python3-chardet python3-dbus python3-gi python3-idna python3-minimal python3-pkg-resources python3-requests python3-six python3-urllib3 python3.6 python3.6-minimal shared-mime-info ssh-import-id syste
  systemd-sysv ucf xdg-user-dirs
0 upgraded, 48 newly installed, 0 to remove and 1 not upgraded.
Need to get 18.9 MB of archives.
After this operation, 87.9 MB of additional disk space will be used.
```

```
root@95314447de42:/# service ssh status
 * sshd is not running
root@95314447de42:/# service ssh start
 * Starting OpenBSD Secure Shell server sshd
root@95314447de42:/# service ssh status
 * sshd is running
root@95314447de42:/#
```

2/

```
root@e7e55c106e65:/# service ssh start
ssh: unrecognized service
root@e7e55c106e65:/# apt-get update
Hit:1 http://ports.ubuntu.com/ubuntu-ports bionic InRelease
Hit:2 http://ports.ubuntu.com/ubuntu-ports bionic-updates InRelease
Hit:3 http://ports.ubuntu.com/ubuntu-ports bionic-backports InRelease
Hit:4 http://ports.ubuntu.com/ubuntu-ports bionic-security InRelease
```

```
root@e7e55c106e65:/# service ssh status
 * sshd is not running
root@e7e55c106e65:/# service ssh start
 * Starting OpenBSD Secure Shell server sshd
root@e7e55c106e65:/# service ssh status
 * sshd is running
root@e7e55c106e65:/#
```

```
root@95314447de42:/# ansible all -m file -a "path=/path/to/directory state=directory" -i testfile
 [WARNING]: Unable to parse /testfile as an inventory source

 [WARNING]: No inventory was parsed, only implicit localhost is available

 [WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

root@95314447de42:/#
```

```
macbook@Ulugbek-2 ~ % docker exec -it Lab3_1 ansible localhost -m command -a "mkdir Lab3_control_node warn=false"
 [WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

localhost | SUCCESS | rc=0 >>

macbook@Ulugbek-2 ~ %
```

```
[defaults]
host_key_checking=False
```

```
root@95314447de42:/# ls
ansible.cfg  bin  boot  create_file.yml  dev  etc  home  inventory.ini  lib  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@95314447de42:/#
```