

- 1) Машины поднимал с помощью Вагранта , используя те же что и для седьмой домашки (но обоих Убунту)
- 2) На 2 машину поставил nginx & Jenkins

```
root@vagrant:/home/vagrant# systemctl status jenkins
● jenkins.service - LSB: Start Jenkins at boot time
   Loaded: loaded (/etc/init.d/jenkins; generated)
   Active: active (exited) since Mon 2020-11-02 22:04:08 UTC; 1min 45s ago
     Docs: man:systemd-sysv-generator(8)
   Process: 10678 ExecStart=/etc/init.d/jenkins start (code=exited, status=0/SUCCESS)

Nov 02 22:04:06 vagrant systemd[1]: Starting LSB: Start Jenkins at boot time...
Nov 02 22:04:07 vagrant jenkins[10678]: Correct java version found
Nov 02 22:04:07 vagrant jenkins[10678]: * Starting Jenkins Automation Server jenkins
Nov 02 22:04:07 vagrant su[10723]: (to jenkins) root on none
Nov 02 22:04:07 vagrant su[10723]: pam_unix(su-l:session): session opened for user jenkins by (uid=0)
Nov 02 22:04:07 vagrant su[10723]: pam_unix(su-l:session): session closed for user jenkins
Nov 02 22:04:08 vagrant jenkins[10678]: ...done.
Nov 02 22:04:08 vagrant systemd[1]: Started LSB: Start Jenkins at boot time.
You have new mail in /var/mail/root
root@vagrant:/home/vagrant# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-11-02 21:57:16 UTC; 8min ago
     Docs: man:nginx(8)
  Main PID: 909 (nginx)
    Tasks: 3 (limit: 2282)
   Memory: 7.3M
    CGroup: /system.slice/nginx.service
            └─909 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
              └─910 nginx: worker process
                └─911 nginx: worker process
```

Тут больше приколов было с Jenkins надо было вначале поставить java 8

Потом надо выкачать ключ и инсталить его

```
wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -
```

и только после этого смогу установить сам Jenkins

Apt install Jenkins

С nginx проблем не было

- 3) На первой машинке Docker стоял с 7 домашки , все работает

```
root@vagrant:/home/vagrant# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2020-11-02 22:16:24 UTC; 48s ago
     Docs: https://docs.docker.com
  TriggeredBy: ● docker.socket
     Main PID: 1088 (dockerd)
        Tasks: 10
       Memory: 102.1M
          CGroup: /system.slice/docker.service
                  └─1088 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Nov 02 22:16:19 vagrant dockerd[1088]: time="2020-11-02T22:16:19.904834857Z" level=warning msg="Your kernel does not support swap memory limit"
Nov 02 22:16:19 vagrant dockerd[1088]: time="2020-11-02T22:16:19.907251727Z" level=warning msg="Your kernel does not support cgroup swap limit"
Nov 02 22:16:19 vagrant dockerd[1088]: time="2020-11-02T22:16:19.907294156Z" level=warning msg="Your kernel does not support cgroup cpuset limit"
Nov 02 22:16:19 vagrant dockerd[1088]: time="2020-11-02T22:16:19.907920401Z" level=info msg="Loading containers: start."
Nov 02 22:16:22 vagrant dockerd[1088]: time="2020-11-02T22:16:22.785219708Z" level=info msg="Default bridge (docker0) is already up. (dockerd)"
Nov 02 22:16:23 vagrant dockerd[1088]: time="2020-11-02T22:16:23.334095703Z" level=info msg="Loading containers: done."
Nov 02 22:16:23 vagrant dockerd[1088]: time="2020-11-02T22:16:23.809578910Z" level=info msg="Docker daemon" commit="20.10.1" build="9c12cc6"
Nov 02 22:16:23 vagrant dockerd[1088]: time="2020-11-02T22:16:23.815239051Z" level=info msg="Daemon has completed initialization"
Nov 02 22:16:24 vagrant dockerd[1088]: time="2020-11-02T22:16:24.030115351Z" level=info msg="API listen on /run/docker.sock"
Nov 02 22:16:24 vagrant systemd[1]: Started Docker Application Container Engine.
lines 1-21/21 (END)
```

По умолчанию открыт 5555 порт для работы с GET запросами по tcp протоколу

Единственное что надо править файлик /lib/systemd/system/docker.service там надо прописать такую строку

ExecStart=/usr/bin/dockerd -H fd:// -H=tcp://0.0.0.0:5555

После этого ребутнуть демон надо и все работает

```
Vagrant1Ubuntu2 — root@vagrant: /home/vagrant — ssh • vagrant ssh — 95x43
eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.109 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::a00:27ff:fe5e:2b93 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:5e:2b:93 txqueuelen 1000 (Ethernet)
    RX packets 4496 bytes 272560 (272.5 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6979 bytes 422076 (422.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 2383 bytes 164172 (164.1 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 2383 bytes 164172 (164.1 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@vagrant:/home/vagrant# nmap 192.168.0.109
Starting Nmap 7.80 ( https://nmap.org ) at 2020-11-03 18:04 UTC
Nmap scan report for vagrant (192.168.0.109)
Host is up (0.000070s latency).
Not shown: 992 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    open  smtp
111/tcp   open  rpcbind
1025/tcp  open  NFS-or-IIS
3306/tcp  open  mysql
5432/tcp  open  postgresql
5555/tcp  open  freeciv
8080/tcp  open  http-proxy

Nmap done: 1 IP address (1 host up) scanned in 0.16 seconds
root@vagrant:/home/vagrant#

Vagrant — vagrant@vagrant: ~ — -bash — 103x52
Not shown: 994 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    open  smtp
111/tcp   open  rpcbind
1025/tcp  open  NFS-or-IIS
3306/tcp  open  mysql
5432/tcp  open  postgresql

Nmap done: 256 IP addresses (4 hosts up) scanned in 7.43 seconds
root@vagrant:/home/vagrant# nmap -T5 192.168.0.1/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-11-03 18:01 UTC
Warning: 192.168.0.102 giving up on port because retransmission cap hit (2).
Nmap scan report for _gateway (192.168.0.1)
Host is up (0.0033s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
53/tcp    open  domain
80/tcp    open  http
49152/tcp open  unknown
MAC Address: 08:24:01:24:3A:1F (D-Link)

Nmap scan report for 192.168.0.102
Host is up (0.00016s latency).
All 1000 scanned ports on 192.168.0.102 are closed (750) or filtered (250)
MAC Address: 38:F9:D3:63:D1:08 (Apple)

Nmap scan report for 192.168.0.109
Host is up (0.00052s latency).
Not shown: 992 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    open  smtp
111/tcp   open  rpcbind
1025/tcp  open  NFS-or-IIS
3306/tcp  open  mysql
5432/tcp  open  postgresql
5555/tcp  open  freeciv
8080/tcp  open  http-proxy
MAC Address: 08:00:27:5E:2B:93 (Oracle VirtualBox virtual NIC)

Nmap scan report for vagrant (192.168.0.101)
Host is up (0.000060s latency).
Not shown: 994 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    open  smtp
111/tcp   open  rpcbind
1025/tcp  open  NFS-or-IIS
3306/tcp  open  mysql
5432/tcp  open  postgresql
```

На скрине видно с помощью команды Nmap что на одной машине открыт порт 5555/tcp и другая машина так же видит хост 192.168.0.109 и то что на ней открыт этот порт.

4) Просканировать все порты и машины в сети

Nmap -T5 и адресс своей сети + маска в моем случае 192.168.0.1/24

```
root@vagrant:/home/vagrant# nmap -T5 192.168.0.1/24
Starting Nmap 7.80 ( https://nmap.org ) at 2020-11-03 17:52 UTC
Warning: 192.168.0.102 giving up on port because retransmission cap hit (2).
Nmap scan report for _gateway (192.168.0.1)
Host is up (0.0083s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
53/tcp    open  domain
80/tcp    open  http
49152/tcp open  unknown
MAC Address: 00:24:01:24:3A:1F (D-Link)

Nmap scan report for 192.168.0.102
Host is up (0.00050s latency).
All 1000 scanned ports on 192.168.0.102 are closed (782) or filtered (218)
MAC Address: 38:F9:D3:63:D1:08 (Apple)

Nmap scan report for 192.168.0.105
Host is up (0.0040s latency).
Not shown: 999 filtered ports
PORT      STATE SERVICE
2701/tcp  open  sms-rcinfo
MAC Address: 04:D4:C4:6C:87:AD (Asustek Computer)

Nmap scan report for vagrant (192.168.0.101)
Host is up (0.0000080s latency).
Not shown: 994 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
25/tcp    open  smtp
111/tcp   open  rpcbind
1025/tcp  open  NFS-or-IIS
3306/tcp  open  mysql
5432/tcp  open  postgresql

Nmap done: 256 IP addresses (4 hosts up) scanned in 7.43 seconds
root@vagrant:/home/vagrant#
```

netstat -tunlp вродѣ тожѣ покажѣт