

5. Test access to the Nginx web server from a browser.

6. Verify that any other ports are blocked by the NSG.

sks-MacBook-Air:04 Compute tasts sk\$ ls

```
Azure Compute Services Practical tasks.pdf
                                                               azure-function-examples
Azure.Functions.Cli.osx-x64.4.0.6821
                                                               dev-web-cus-01_key.pem
ExportedTemplate-myResourceGroup.zip
MyLinuxVM_key.pem
sks-MacBook-Air:04 Compute tasts sk$ mv dev-web-cus-01_key.pem ~/.ssh/
| sks-MacBook-Air:04 Compute tasts sk$ chmod 600 ~/.ssh/dev-web-cus-01_key.pem sks-MacBook-Air:04 Compute tasts sk$ ssh -i ~/.ssh/id_rsa azureuser@20.120.45.67
```

Warning: Identity file /Users/sk/.ssh/id_rsa not accessible: No such file or directory.

^C

sks-MacBook-Air:04 Compute tasts sk\$ ssh -i ~/.ssh/dev-web-cus-01_key.pem azureuser@20.120.45.67

sks-MacBook-Air:lab sk\$ nc -zv 172.172.163.49 443
nc: connectx to 172.172.163.49 port 443 (tcp) failed: Operation timed out
sks-MacBook-Air:lab sk\$ nc -zv 172.172.163.49 80
Connection to 172.172.163.49 port 80 [tcp/http] succeeded!
sks-MacBook-Air:lab sk\$ nc -zv 172.172.163.49 22
Connection to 172.172.163.49 port 22 [tcp/ssh] succeeded!
sks-MacBook-Air:lab sk\$

sks-MacBook-Air:lab sk\$ nmap -Pn -p 80, 22 172.172.163.49
Starting Nmap 7.95 (https://nmap.org) at 2025-01-18 15:14 EET
Nmap scan report for 22 (0.0.0.22)
Host is up (0.000085s latency). **PORT** STATE **SERVICE** 80/tcp filtered http Nmap scan report for 172.172.163.49 Host is up. STATE **SERVICE PORT** 80/tcp filtered http Nmap done: 2 IP addresses (2 hosts up) scanned in 0.57 seconds sks-MacBook-Air:lab sk\$ nmap -Pn -p 80,22 172.172.163.49
Starting Nmap 7.95 (https://nmap.org) at 2025-01-18 15:14 EET Nmap scan report for 172.172.163.49
Host is up (0.11s latency). **PORT** STATE SERVICE 22/tcp open ssh 80/tcp open http Nmap done: 1 IP address (1 host up) scanned in 0.21 seconds sks-MacBook-Air:lab sk\$

Jan 18 13:10:44 dev-web-cus-01 systemd[1]: Starting nginx.service - A high performance web server and a reverse > Jan 18 13:10:44 dev-web-cus-01 systemd[1]: Started nginx.service - A high performance web server and a reverse p>

Running kernel seems to be up-to-date.

No services need to be restarted.

lines 1-14/14 (END)

...mpute tasts — azureuser@dev-web-cus-01: ~ — ssh -i ~/.ssh/dev-web-cus-01.pem azureuser@172.172.163.49

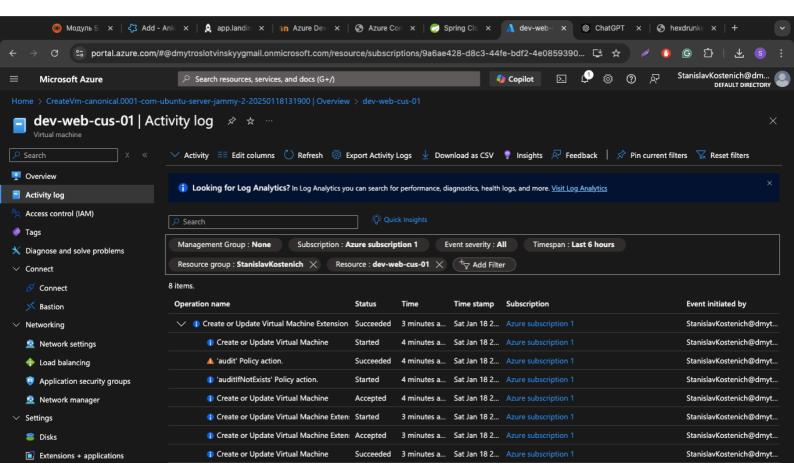
```
Selecting previously unselected package nginx-common.
(Reading database ... 67388 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.1_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.1_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx-common (1.24.0-2ubuntu7.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
azureuser@dev-web-cus-01:~$ sudo systemctl start nginx
azureuser@dev-web-cus-01:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
azureuser@dev-web-cus-01:~$
```

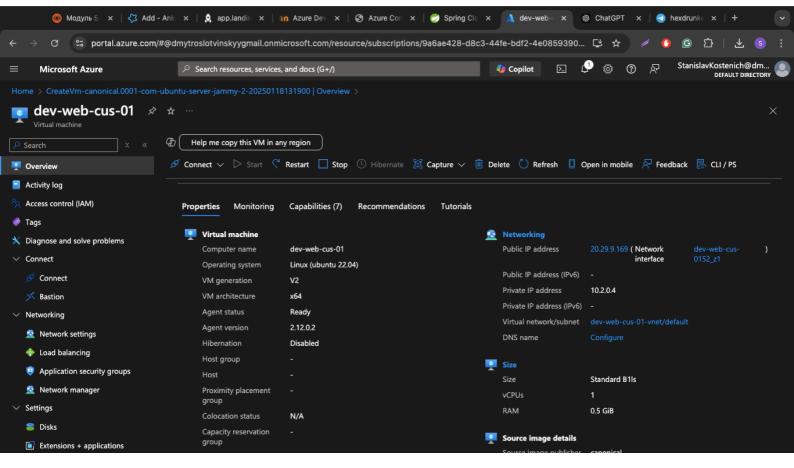
te tasts — azureuser@dev-web-cus-01: ~ — ssh -i ~/.ssh/dev-web-cus-01.pem azureuser@172.172.163.49

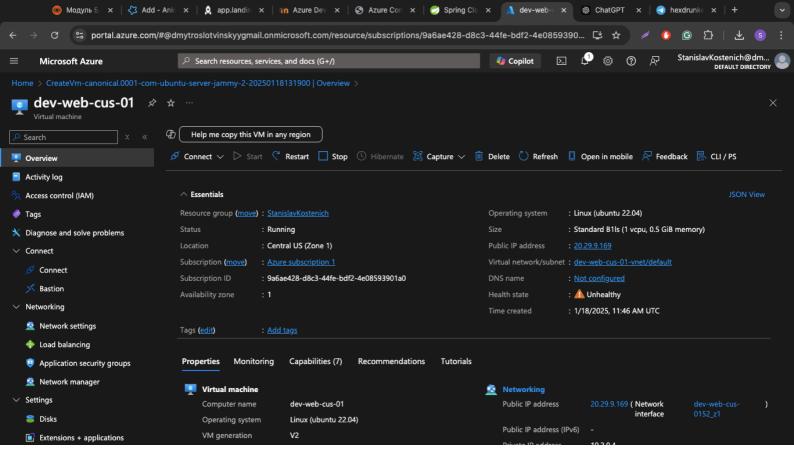
```
After this operation, 3072 B of additional disk space will be used.
Get:1 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 rsync amd64 3.2.7-1ubuntu1.2 [436 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 git-man all 1:2.43.0-1ubuntu7.2 [1100 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 git amd64 1:2.43.0-1ubuntu7.2 [3679 kB]
Fetched 5215 kB in 0s (58.1 MB/s)
(Reading database ... 67388 files and directories currently installed.)
Preparing to unpack .../rsync_3.2.7-1ubuntu1.2_amd64.deb ...
Unpacking rsync (3.2.7-1ubuntu1.2) over (3.2.7-1ubuntu1) ...
Preparing to unpack .../git-man_1%3a2.43.0-1ubuntu7.2_all.deb ...
Unpacking git-man (1:2.43.0-1ubuntu7.2) over (1:2.43.0-1ubuntu7.1) ...
Preparing to unpack .../git_1%3a2.43.0-1ubuntu7.2_amd64.deb ...
Unpacking git (1:2.43.0-1ubuntu7.2) over (1:2.43.0-1ubuntu7.1) ...
Setting up git-man (1:2.43.0-1ubuntu7.2) ...
Setting up rsync (3.2.7-1ubuntu1.2) ...
rsync.service is a disabled or a static unit not running, not starting it.
Setting up git (1:2.43.0-1ubuntu7.2) .
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
azureuser@dev-web-cus-01:~$ sudo apt install nginx -y
```

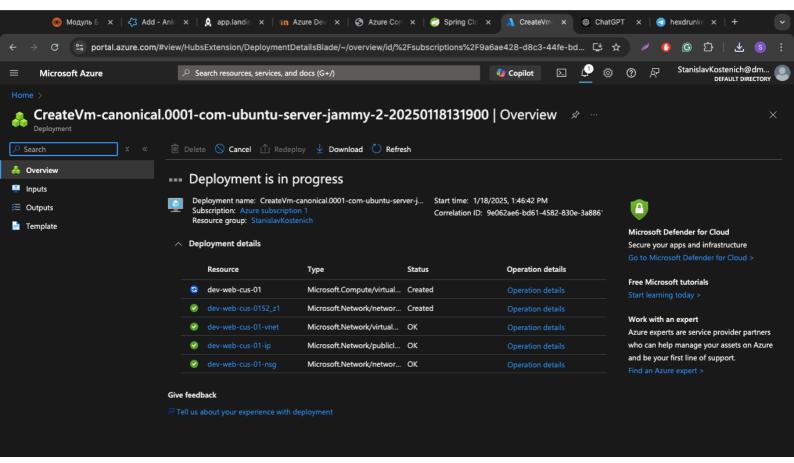
azureuser@dev-web-cus-01: ~ — ssh -i ~/.ssh/dev-web-cus-01.pem azureuser@172.172.163.49

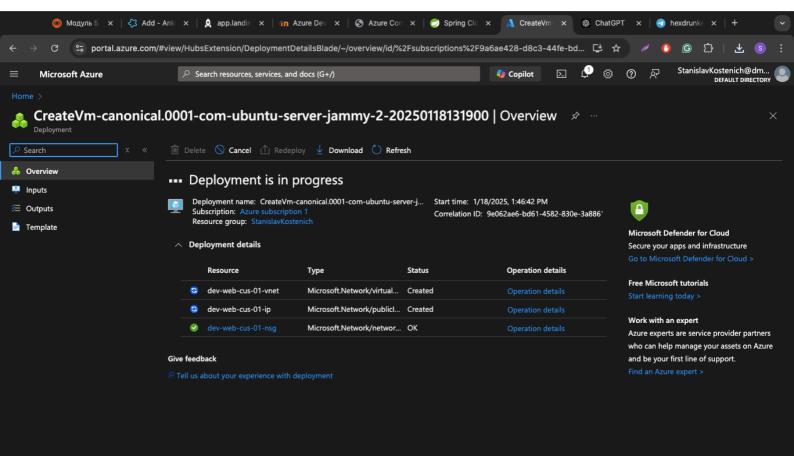
...pute tasts — azureuser@dev-web-cus-01: ~ — ssh -i ~/.ssh/dev-web-cus-01_key.pem azureuser@20.29.9.169 azureuser@dev-web-cus-01:~\$ sudo apt update && sudo apt upgrade -y

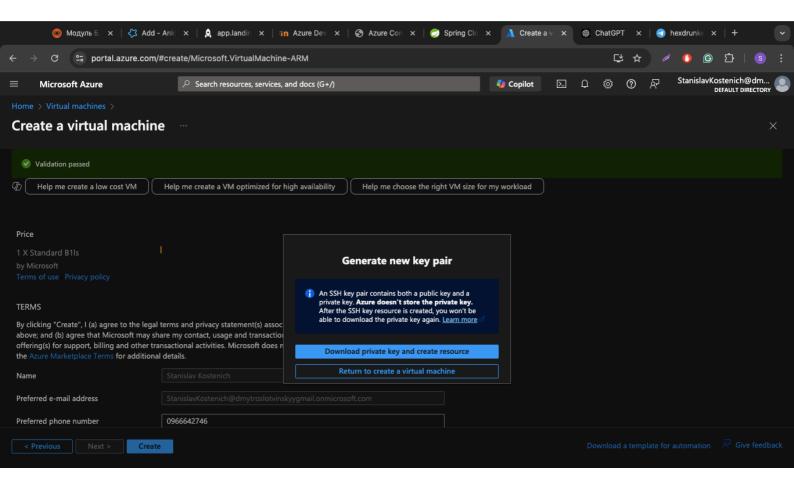


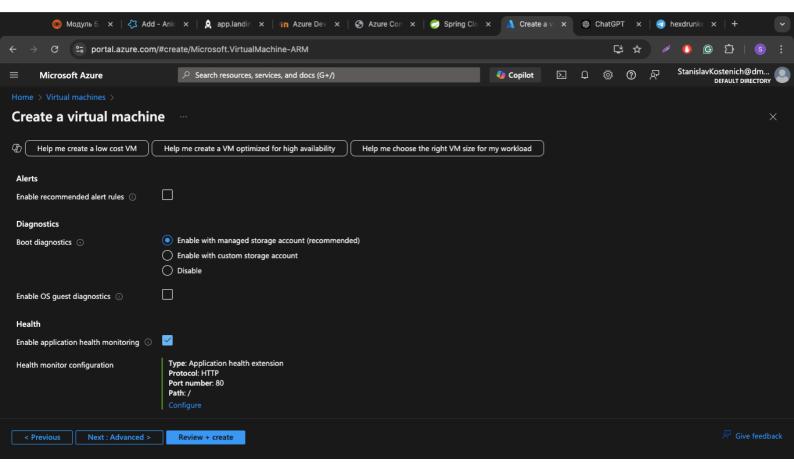


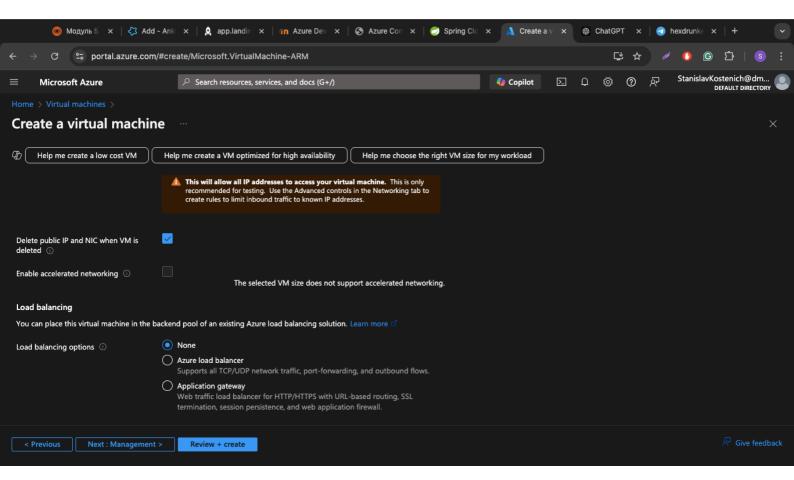


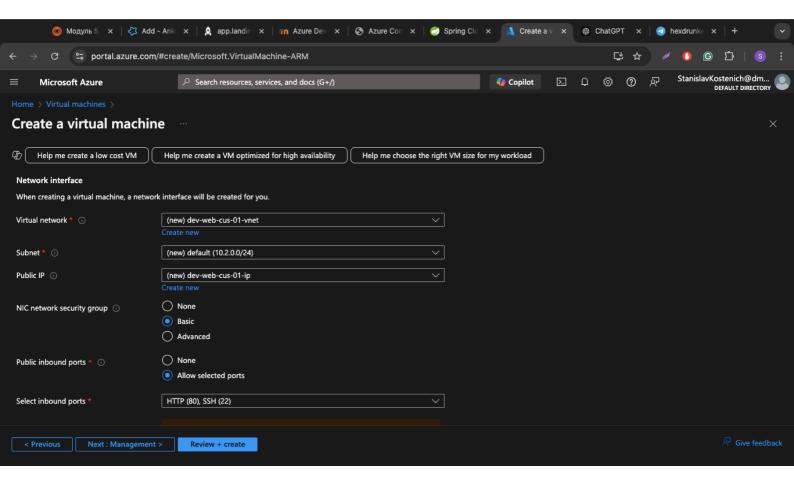


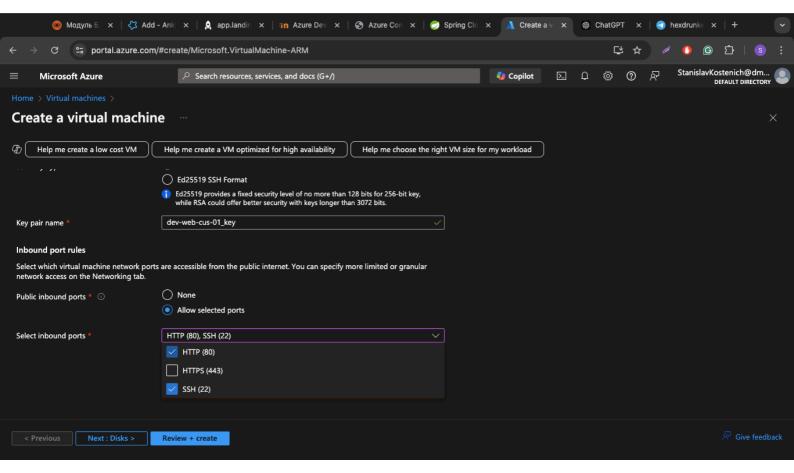


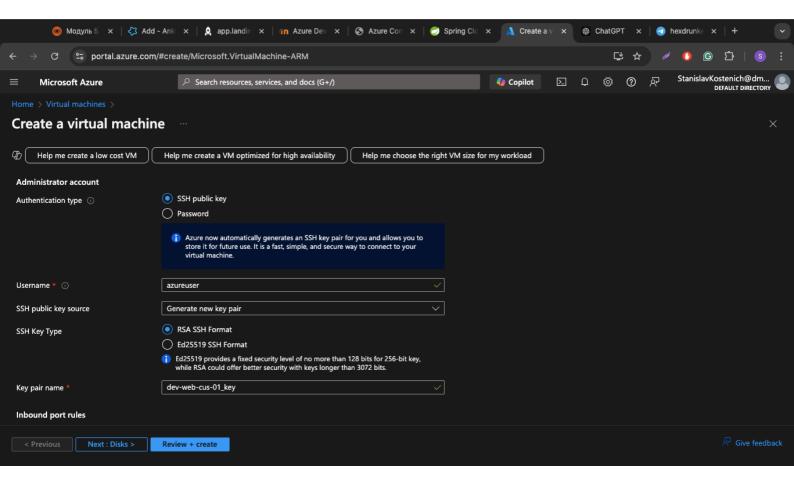


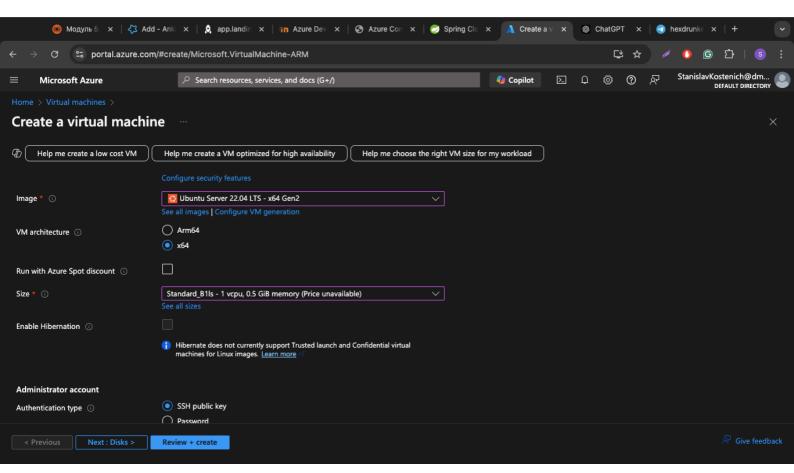


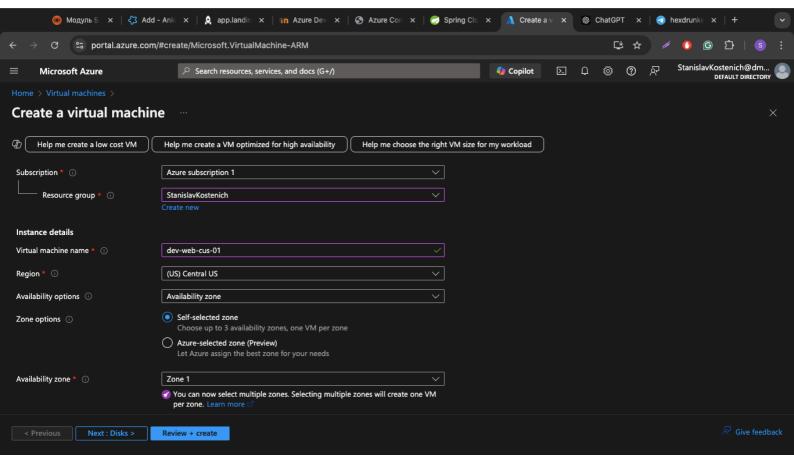












~/Documents/Spring/core-spring-labfiles/lab — -bash

...pute tasts — azureuser@dev-web-cus-01: ~ — ssh -i ~/.ssh/dev-web-cus-01_key.pem azureuser@20.29.9.169

System information as of Sat Jan 18 12:04:14 UTC 2025

System load: 0.02 Processes: 107 Usage of /: 5.3% of 28.89GB Users logged in: 0

Memory usage: 70% IPv4 address for eth0: 10.2.0.4

Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old. To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

azureuser@dev-web-cus-01:~\$

ts/AzureDevOps/04 Compute tasts — ssh -i ~/.ssh/dev-web-cus-01_key.pem azureuser@20.29.9.169

