

Practical Task 1: Linux Virtual Machine Setup and NSG Configuration

Create and configure a Linux Virtual Machine (VM) on Azure and secure it with a Network Security Group (NSG).

Requirements:

1. Create a Linux VM (Ubuntu or CentOS) in Azure using the free tier.
2. Connect to the VM via SSH using a public-private key pair.
3. Install and configure an Nginx web server on the VM.
4. Create and configure a Network Security Group (NSG) to allow only HTTP (port 80) and SSH (port 22) traffic.
5. Test access to the Nginx web server from a browser.
6. Verify that any other ports are blocked by the NSG.

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

...Documents/AzureDevOps/04 Compute tasts — ssh -i ~/.ssh/dev-web-cus-01_key.pem azureuser@20.120.45.67 +

```
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            temp
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
```

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

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

```
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$ █
```

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

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

```
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.
```

```
PORT      STATE      SERVICE
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$
```

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:~$ sudo systemctl status nginx
```

● nginx.service - A high performance web server and a reverse proxy server

Loaded: loaded (/usr/lib/systemd/system/nginx.service; **enabled**; preset: **enabled**)

Active: **active (running)** since Sat 2025-01-18 13:10:44 UTC; 42s ago

Docs: man:nginx(8)

Main PID: 2552 (nginx)

Tasks: 2 (limit: 1004)

Memory: 1.7M (peak: 1.9M)

CPU: 9ms

CGroup: /system.slice/nginx.service

└─2552 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"

└─2553 "nginx: worker process"

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

lines 1-14/14 (END)

~/Documents/Spring/core-spring-labfiles/lab — ping 8.8.8.8

...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:~$
```

~/Documents/Spring/core-spring-labfiles/lab — ping 8.8.8.8

...mpute 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
```

~/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 +

```
azureuser@dev-web-cus-01:~$ sudo apt update && sudo apt upgrade -y
```


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Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20250118131900 | Overview > dev-web-cus-01

dev-web-cus-01 | Activity logVirtual machine

Search

ActivityEdit columnsRefreshExport Activity LogsDownload as CSVInsightsFeedbackPin current filtersReset filters

OverviewActivity logAccess control (IAM)TagsDiagnose and solve problemsConnectConnectBastionNetworkingNetwork settingsLoad balancingApplication security groupsNetwork managerSettingsDisksExtensions + applications

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Management Group : NoneSubscription : Azure subscription 1Event severity : AllTimespan : Last 6 hours

Resource group : StanislavKostenichResource : dev-web-cus-01Add Filter

8 items.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Create or Update Virtual Machine Extension	Succeeded	3 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
Create or Update Virtual Machine	Started	4 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
'audit' Policy action.	Succeeded	4 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
'auditIfNotExists' Policy action.	Started	4 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
Create or Update Virtual Machine	Accepted	4 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
Create or Update Virtual Machine Exten:	Started	3 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
Create or Update Virtual Machine Exten:	Accepted	3 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...
Create or Update Virtual Machine	Succeeded	3 minutes a...	Sat Jan 18 2...	Azure subscription 1	StanislavKostenich@dmyt...

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dev-web-cus-01
Virtual machine

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Overview

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Tags

Diagnose and solve problems

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Load balancing

Application security groups

Network manager

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PropertiesMonitoringCapabilities (7)RecommendationsTutorials

Virtual machine

Computer name

dev-web-cus-01

Operating system

Linux (ubuntu 22.04)

VM generation

V2

VM architecture

x64

Agent status

Ready

Agent version

2.12.0.2

Hibernation

Disabled

Host group

-

Host

-

Proximity placement group

-

Colocation status

N/A

Capacity reservation group

-

Networking

Public IP address

20.29.9.169 (Network interface dev-web-cus-0152_z1)

Public IP address (IPv6)

-

Private IP address

10.2.0.4

Private IP address (IPv6)

-

Virtual network/subnet

dev-web-cus-01-vnet/default

DNS name

Configure

Size

Size

Standard B1ls

vCPUs

1

RAM

0.5 GiB

Source image details

Source image publishercanonical

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Essentials

Resource group (move) : StanislavKostenich

Status : Running

Location : Central US (Zone 1)

Subscription (move) : Azure subscription 1

Subscription ID : 9a6ae428-d8c3-44fe-bdf2-4e08593901a0

Availability zone : 1

Tags (edit) : Add tags

Operating system : Linux (ubuntu 22.04)

Size : Standard B1ls (1 vcpu, 0.5 GiB memory)

Public IP address : 20.29.9.169

Virtual network/subnet : dev-web-cus-01-vnet/default

DNS name : Not configured

Health state : Unhealthy

Time created : 1/18/2025, 11:46 AM UTC

JSON View

Properties

Monitoring

Capabilities (7)

Recommendations

Tutorials

Virtual machine

Computer name : dev-web-cus-01

Operating system : Linux (ubuntu 22.04)

VM generation : V2

Networking

Public IP address : 20.29.9.169 (Network interface : dev-web-cus-0152_z1)

Public IP address (IPv6) : -

Private IP address : 10.2.0.1

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Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j...
Subscription: [Azure subscription 1](#)
Resource group: StanislavKostenich

Start time: 1/18/2025, 1:46:42 PM
Correlation ID: 9e062ae6-bd61-4582-830e-3a886*

Deployment details

Resource	Type	Status	Operation details
dev-web-cus-01	Microsoft.Compute/virtual...	Created	Operation details
dev-web-cus-0152_z1	Microsoft.Network/networ...	Created	Operation details
dev-web-cus-01-vnet	Microsoft.Network/virtual...	OK	Operation details
dev-web-cus-01-ip	Microsoft.Network/publici...	OK	Operation details
dev-web-cus-01-nsg	Microsoft.Network/networ...	OK	Operation details

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Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j...
Subscription: Azure subscription 1
Resource group: StanislavKostenich

Start time: 1/18/2025, 1:46:42 PM
Correlation ID: 9e062ae6-bd61-4582-830e-3a886*

Deployment details

Resource	Type	Status	Operation details
dev-web-cus-01-vnet	Microsoft.Network/virtual...	Created	Operation details
dev-web-cus-01-ip	Microsoft.Network/publici...	Created	Operation details
dev-web-cus-01-nsg	Microsoft.Network/networ...	OK	Operation details

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Create a virtual machine

Validation passed

Help me create a low cost VMHelp me create a VM optimized for high availabilityHelp me choose the right VM size for my workload

Price

1 X Standard B1ls
by Microsoft
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Name

Stanislav Kostenich

Preferred e-mail address

StanislavKostenich@dmytroslovinskyygmail.onmicrosoft.com

Preferred phone number

0966642746

Generate new key pair

An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. [Learn more](#)

Download private key and create resource

Return to create a virtual machine

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Help me choose the right VM size for my workload

Alerts

Enable recommended alert rules

Diagnostics

Boot diagnostics

Enable OS guest diagnostics

Health

Enable application health monitoring

Health monitor configuration

Type: Application health extension

Protocol: HTTP

Port number: 80

Path: /

Configure

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This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted

☒

Enable accelerated networking

☐

The selected VM size does not support accelerated networking.

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Load balancing options

☒None

☐Azure load balancer
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

☐Application gateway
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

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Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ(new) dev-web-cus-01-vnet
Create new

Subnet * ⓘ(new) default (10.2.0.0/24)

Public IP ⓘ(new) dev-web-cus-01-ip
Create new

NIC network security group ⓘ

None

Basic

Advanced

Public inbound ports * ⓘ

None

Allow selected ports

Select inbound ports *HTTP (80), SSH (22)

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Ed25519 SSH Format

Ed25519 provides a fixed security level of no more than 128 bits for 256-bit key, while RSA could offer better security with keys longer than 3072 bits.

Key pair name *dev-web-cus-01_key

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports *

None

Allow selected ports

Select inbound ports *

HTTP (80), SSH (22)

☒ HTTP (80)

☐ HTTPS (443)

☒ SSH (22)

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Administrator account

Authentication type ⓘ

☒ SSH public key

☐ Password

ⓘ Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username * ⓘ

azureuser

SSH public key source

Generate new key pair

SSH Key Type

☒ RSA SSH Format

☐ Ed25519 SSH Format

ⓘ Ed25519 provides a fixed security level of no more than 128 bits for 256-bit key, while RSA could offer better security with keys longer than 3072 bits.

Key pair name *

dev-web-cus-01_key

Inbound port rules

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Create a virtual machine

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Image *

Ubuntu Server 22.04 LTS - x64 Gen2

See all images | Configure VM generation

VM architecture

Arm64

x64

Run with Azure Spot discount

Size *

Standard_B1ls - 1 vcpu, 0.5 GiB memory (Price unavailable)

See all sizes

Enable Hibernation

Hibernate does not currently support Trusted launch and Confidential virtual machines for Linux images. [Learn more](#)

Administrator account

Authentication type

SSH public key

Password

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Create a virtual machine

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Subscription ⓘ

Azure subscription 1

Resource group ⓘ

StanislavKostenich

[Create new](#)

Instance details

Virtual machine name ⓘ

dev-web-cus-01

Region ⓘ

(US) Central US

Availability options ⓘ

Availability zone

Zone options ⓘ

☒ Self-selected zone

Choose up to 3 availability zones, one VM per zone

☐ Azure-selected zone (Preview)

Let Azure assign the best zone for your needs

Availability zone ⓘ

Zone 1

You can now select multiple zones. Selecting multiple zones will create one VM per zone. [Learn more](#)

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...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:~\$

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

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

```
sks-MacBook-Air:04 Compute tasts sk$ mv dev-web-cus-01_key.pem ~/.ssh/  
mv: dev-web-cus-01_key.pem: No such file or directory  
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/dev-web-cus-01_key.pem azureuser@20.29.9.169  
The authenticity of host '20.29.9.169 (20.29.9.169)' can't be established.  
ECDSA key fingerprint is SHA256:8wrmKTTw7ZLDmIkUFLP2afXYQkhNluElQy1l9N/Hr70.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? █
```

