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Lab report 1 (Week 35)

Exercise

- Create two virtual network and multiple subnets in the same resource group.
- Create a VM and use the new created VNet for networking.

First of all, we create the resource group anluq0157Lab1, then we add two virtual networks with three subnets in each one inside the resource group:

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with the Microsoft Azure logo and a search bar. Below the navigation bar, the 'Resource groups' page is displayed, showing a list of resource groups. The 'Create' button is highlighted. Below the list, there's a 'Create a resource group' wizard. The wizard has three tabs: 'Basics', 'Tags', and 'Review + create'. The 'Basics' tab is selected. Under 'Project details', the 'Subscription' is set to 'IFI-Edu-INF2220' and the 'Resource group' is set to 'anluq0157Lab1'. Under 'Resource details', the 'Region' is set to '(Europe) North Europe'.

Microsoft Azure Search resources, services, and docs (G+/)

Home > Resource groups

UiT Office 365 (UniversitetetiTromso.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Create

Filter for any field... Subscription equals all Location equals all Add filter

Showing 1 to 17 of 17 records. No grouping List view

Home > Resource groups > Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

Subscription * IFI-Edu-INF2220

Resource group * anluq0157Lab1

Resource details

Region * (Europe) North Europe

Create a resource group ...



✔ Validation passed.

Basics Tags Review + create

Basics

Subscription IFI-Edu-INF2220
Resource group anluq0157Lab1
Region North Europe

Tags

None

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anluq0157Lab1 ...



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Overview

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Create virtual network ...



Basics Security IP addresses Tags Review + create

[Learn more.](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * IFI-Edu-INF2220
Resource group * anluq0157Lab1
[Create new](#)

Instance details

Virtual network name * VN1Lab1
Region ⓘ * (Europe) North Europe
[Deploy to an edge zone](#)

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Compute (3316)

Free

Subscribe



Create



Popular Azure services in your organization



Virtual machine

Microsoft

Azure Service

Azure Virtual Machines provide on-demand, high-scale, secure and virtualized infrastructure using either Linux or Windows operating systems.

Create



Virtual network

Microsoft

Azure Service

Create a logically isolated section in Microsoft Azure and securely connect it outward.

Create



Create

Popular Marketplace products in your organization

Basics Security IP addresses Tags Review + create

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet. [Learn more](#)

Add IPv4 address space

10.0.0.0/16

10.0.0.0

/16 (65,536 addresses)

10.0.0.0 - 10.0.255.255 (65536 addresses)

+ Add a subnet

Subnets	IP address range	Size	NAT gateway
default	10.0.0.0 - 10.0.0.255	/24 (256 addresses)	-

ⓘ Address space '10.0.0.0/16 (10.0.0.0 - 10.0.255.255)' overlaps with address space '10.0.0.0/16 (10.0.0.0 - 10.0.255.255)' of

Create virtual network

Basics Security IP address space

Define the address space of the virtual network address space. After you create the subnet, Azure assigns the IP address space.

Add IPv4 address space

10.2.0.0/16
10.2.0.0
10.2.0.0 - 10.2.255.255

+ Add a subnet

Subnets

A NAT gateway is recommended for this configuration. [Learn more](#)

Previous

Next

Add a subnet



Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space ① 10.2.0.0/16
10.2.0.0 - 10.2.255.255 (65536 addresses)

Subnet details

Subnet template ① Default

Name * ① Subnet1VN1

Starting address * ① 10.2.0.0

Subnet size ① /24 (256 addresses)

IP address space ① 10.2.0.0 - 10.2.0.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway ① None
[Create new](#)

Network security group ① None

Add

Cancel

Create virtual network

Basics Security IP address space

Define the address space of the virtual network address space. After you create the subnet, Azure assigns the IP address space.

Add IPv4 address space

10.2.0.0/16
10.2.0.0
10.2.0.0 - 10.2.255.255

+ Add a subnet

Subnets

Subnet1VN1

A NAT gateway is recommended for this configuration. [Learn more](#)

Previous

Next

Add a subnet



Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space ① 10.2.0.0/16
10.2.0.0 - 10.2.255.255 (65536 addresses)

Subnet details

Subnet template ① Default

Name * ① Subnet2VN1

Starting address * ① 10.2.1.0

Subnet size ① /24 (256 addresses)

IP address space ① 10.2.1.0 - 10.2.1.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway ① None
[Create new](#)

Network security group ① None

Add

Cancel

Home > Resource groups

Create virtual network

BasicsSecurityIP addresses

Define the address space of the virtual network address space. Azure assigns the range of IP addresses to the virtual network address space.

Add IPv4 address space

10.2.0.0/16

10.2.0.0

10.2.0.0 - 10.2.255.255 (65536 addresses)

+ Add a subnet

Subnets

Subnet1VN1

Subnet2VN1

Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space

10.2.0.0/16

10.2.0.0 - 10.2.255.255 (65536 addresses)

Subnet details

Subnet template

Default

Name *

Subnet3VN1

Starting address *

10.2.2.0

Subnet size

/24 (256 addresses)

IP address space

10.2.2.0 - 10.2.2.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway

None

[Create new](#)

Network security group

None

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Create virtual network

BasicsSecurityIP addressesTagsReview + create

Add IPv4 address space

10.2.0.0/16

10.2.0.0

/16 (65,536 addresses)

10.2.0.0 - 10.2.255.255 (65536 addresses)

+ Add a subnet

Delete address space

Subnets	IP address range	Size	NAT gateway
Subnet1VN1	10.2.0.0 - 10.2.0.255	/24 (256 addresses)	-
Subnet2VN1	10.2.1.0 - 10.2.1.255	/24 (256 addresses)	-
Subnet3VN1	10.2.2.0 - 10.2.2.255	/24 (256 addresses)	-

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Create virtual network ...



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Basics

Subscription	IFI-Edu-INF2220
Resource Group	anluq0157Lab1
Name	VN1Lab1
Region	North Europe

Security

Azure Bastion	Disabled
Azure Firewall	Disabled
Azure DDoS Network Protection	Disabled

IP addresses

Address space	10.2.0.0/16 (65536 addresses)
Subnet	Subnet1VN1 (10.2.0.0/24) (256 addresses)

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VN1Lab1 | Overview



Deployment



Delete



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Redeploy



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Refresh

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Your deployment is complete



Deployment name : VN1Lab1
Subscription : IFI-Edu-INF2220
Resource group : anluq0157Lab1
Start time : 9/11/2023, 1:01:00 PM
Correlation ID : f614ac3a-c3f0-4500-ab9f-c06f6ac7bcfe

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Give feedback



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anluq0157Lab1 ...

Resource group

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- Events

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+ Create Manage view Delete resource group ...

Esse **Create** JSON View

Resources Recommendations

Filter for any field...

Type equals all Location equals all Add filter

Showing 1 to 1 of 1 records. ☐ Show hidden types

No grouping List view

<input type="checkbox"/> Name	Type	Location
<input type="checkbox"/> VN1Lab1	Virtual network	North Europe

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Marketplace

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Categories

- Compute (3316)
- IT & Management Tools (3264)

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Create

Popular Azure services in your organization

Virtual machine

Microsoft

Azure Service

Azure Virtual Machines provide on-demand, high-scale, secure and virtualized infrastructure using either Linux or Windows operating systems.

Create

Virtual network

Microsoft

Azure Service

Create a logically isolated section in Microsoft Azure and securely connect it outward.

Create

Virtual network

Create virtual network ...



Basics Security IP addresses Tags Review + create

[Learn more.](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *
IF1-Edu-INF2220

Resource group *
anluq0157Lab1
[Create new](#)

Instance details

Virtual network name *
VN2Lab1

Region ⓘ *
(Europe) North Europe
[Deploy to an edge zone](#)

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Create virtual network ...



Basics Security IP addresses Tags Review + create

the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet. [Learn more](#)

Add IPv4 address space |

10.0.0.0/16
10.0.0.0 /16 (65,536 addresses)
10.0.0.0 - 10.0.255.255 (65536 addresses)
[Delete address space](#)

[Add a subnet](#)

Subnets	IP address range	Size	NAT gateway
default	10.0.0.0 - 10.0.0.255	/24 (256 addresses)	-

ⓘ Address space '10.0.0.0/16 (10.0.0.0 - 10.0.255.255)' overlaps with address space '10.0.0.0/16 (10.0.0.0 - 10.0.255.255)' of virtual network 'VNet2'. Virtual networks with overlapping address space cannot be peered. If you intend to peer these virtual networks, change address space '10.0.0.0/16 (10.0.0.0 - 10.0.255.255)'. [Learn more](#)

Home > anluq0157Lab1

Create virtual network

BasicsSecurityIP address space

the virtual network address space. When you create a subnet, Azure assigns the range of IP addresses to the subnet.

Add IPv4 address space

10.3.0.0/16

10.3.0.0

10.3.0.0 - 10.3.255.255 (65536 addresses)

+ Add a subnet

Subnets

Address space '10.3.0.0/16' is reserved for Azure. You cannot create a virtual network 'Network' with this address space.

Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space ⓘ

10.3.0.0/16

10.3.0.0 - 10.3.255.255 (65536 addresses)

Subnet details

Subnet template ⓘ

Default

Name * ⓘ

Subnet1VN2

Starting address * ⓘ

10.3.0.0

Subnet size ⓘ

/24 (256 addresses)

IP address space ⓘ

10.3.0.0 - 10.3.0.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway ⓘ

None

Create new

Network security group ⓘ

None

Create new

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Create virtual network

BasicsSecurityIP address space

the virtual network address space. When you create a subnet, Azure assigns the range of IP addresses to the subnet.

Add IPv4 address space

10.3.0.0/16

10.3.0.0

10.3.0.0 - 10.3.255.255 (65536 addresses)

+ Add a subnet

Subnets

Subnet1VN2

Address space '10.3.0.0/16' is reserved for Azure. You cannot create a virtual network 'Network' with this address space.

Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space ⓘ

10.3.0.0/16

10.3.0.0 - 10.3.255.255 (65536 addresses)

Subnet details

Subnet template ⓘ

Default

Name * ⓘ

Subnet2VN2

Starting address * ⓘ

10.3.1.0

Subnet size ⓘ

/24 (256 addresses)

IP address space ⓘ

10.3.1.0 - 10.3.1.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway ⓘ

None

Create new

Network security group ⓘ

None

Create new

Route table

None

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Create virtual network

BasicsSecurityIP addresses

the virtual network address space. When you add a subnet, Azure assigns the IP address space.

Add IPv4 address space

10.3.0.0/16

10.3.0.0

10.3.0.0 - 10.3.255.255 (65536 addresses)

+ Add a subnet

Subnets

Subnet1VN2

Subnet2VN2

Subnet details

IP address space ⓘ10.3.0.0/1610.3.0.0 - 10.3.255.255 (65536 addresses)

Subnet template ⓘDefault

Name * ⓘSubnet3VN2

Starting address * ⓘ10.3.2.0

Subnet size ⓘ/24 (256 addresses)

IP address space ⓘ10.3.2.0 - 10.3.2.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway ⓘNoneCreate new

Network security group ⓘNoneCreate new

Route tableNone

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Create virtual network

BasicsSecurityIP addressesTagsReview + create

Add IPv4 address space ⓘ

10.3.0.0/16Delete address space

10.3.0.0/16 (65,536 addresses)

10.3.0.0 - 10.3.255.255 (65536 addresses)

+ Add a subnet

Subnets	IP address range	Size	NAT gateway	
Subnet1VN2	10.3.0.0 - 10.3.0.255	/24 (256 addresses)	-	✎ 🗑
Subnet2VN2	10.3.1.0 - 10.3.1.255	/24 (256 addresses)	-	✎ 🗑
Subnet3VN2	10.3.2.0 - 10.3.2.255	/24 (256 addresses)	-	✎ 🗑

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Create virtual network ...

Basics Security IP addresses Tags Review + create

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Basics

Subscription	IFI-Edu-INF2220
Resource Group	anluq0157Lab1
Name	VN2Lab1
Region	North Europe

Security

Azure Bastion	Disabled
Azure Firewall	Disabled
Azure DDoS Network Protection	Disabled

IP addresses

Address space	10.3.0.0/16 (65536 addresses)
Subnet	Subnet1VN2 (10.3.0.0/24) (256 addresses)

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VN2Lab1 | Overview

Deployment

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Your deployment is complete



Deployment name : VN2Lab1
Subscription : IFI-Edu-INF2220
Resource group : anluq0157Lab1
Start time : 9/11/2023, 2:15:00 PM
Correlation ID : 3bc3cdb1-d60f-4031-8140-f27d57817c55

> Deployment details

Next steps

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Give feedback

[Tell us about your experience with deployment](#)

here we have the first point done, now it's time to create the Virtual Machine and use the new created VNet for networking:

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Recommendations

Filter for any field...

Type equals all

Location equals all

Add filter

Showing 1 to 2 of 2 records.

Show hidden types

No grouping

List view

Name

Type

Location

VN1Lab1

Virtual network

North Europe

VN2Lab1

Virtual network

North Europe

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Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

IFI-Edu-INF2220

Resource group *

anluq0157Lab1

Create new

Instance details

Virtual machine name *

VMachineLab1

Region *

(Europe) North Europe

Availability options

No infrastructure redundancy required

Security type

Trusted launch virtual machines

Configure security features

Create a virtual machine

Image * ⓘ

Ubuntu Server 20.04 LTS - x64 Gen2

[See all images](#) | [Configure VM generation](#)

VM architecture ⓘ

Arm64

x64

Run with Azure Spot discount ⓘ

☐

Size * ⓘ

Standard_D2s_v3 - 2 vcpus, 8 GiB memory (633.64 NOK/month)

[See all sizes](#)

Administrator account

Authentication type ⓘ

SSH public key

Password

Username * ⓘ

VMachineLab1

✓

Password * ⓘ

••••••••

✓

Confirm password * ⓘ

••••••••

✓

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 *

SSH (22)

✓

ⓘ

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Review + create

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Next : Disks >

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Create a virtual machine

Basics

Disks

Networking

Management

Monitoring

Advanced

Tags

Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ⓘ

☐

ⓘ

Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

OS disk

OS disk type * ⓘ

Premium SSD (locally-redundant storage)

✓

Delete with VM ⓘ

☒

Key management ⓘ

Platform-managed key

✓

Enable Ultra Disk compatibility ⓘ

☐

Ultra disk is not supported with selected security type.

Data disks for VMachineLab1

Review + create

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Next : Networking >

[Give feedback](#)

Create a virtual machine ...

Basics Disks **Networking** Management Monitoring Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

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

Virtual network *	<div>VN1Lab1</div> <div>Create new</div>
Subnet *	<div>VN1Lab1 (10.2.0.0/24)</div> <div>Manage subnet configuration</div>
Public IP	<div>(new) VMachineLab1-ip</div> <div>Create new</div>
NIC network security group	<div><input type="radio"/> None</div> <div><input checked="" type="radio"/> Basic</div> <div><input type="radio"/> Advanced</div>
Public inbound ports *	<div><input type="radio"/> None</div> <div><input checked="" type="radio"/> Allow selected ports</div>

Select inbound ports *	<div>SSH (22)</div>
------------------------	---------------------

⚠ 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	<input type="checkbox"/>
Enable accelerated networking	<input checked="" type="checkbox"/>

Load balancing

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

Place this virtual machine behind an existing load balancing solution?	<input type="checkbox"/>
--	--------------------------

Create a virtual machine ...



✓ Validation passed

Basics Disks Networking Management Monitoring Advanced Tags **Review + create**

i Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard D2s v3
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply

0.8680 NOK/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

Create

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[Download a template for automation](#)

Create

Give feedback



Networking

Public IP address

13.69.130.245 (Network interface vmachinelab1280)

Public IP address (IPv6)-

Private IP address 10.2.0.4

Private IP address -
(IPv6)

Virtual network/subnet VN1Lab1/VN1Lab1

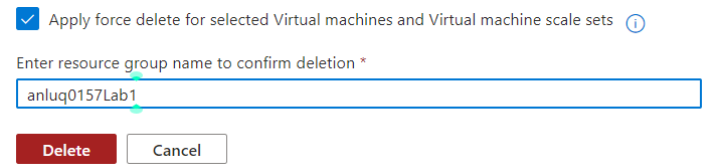
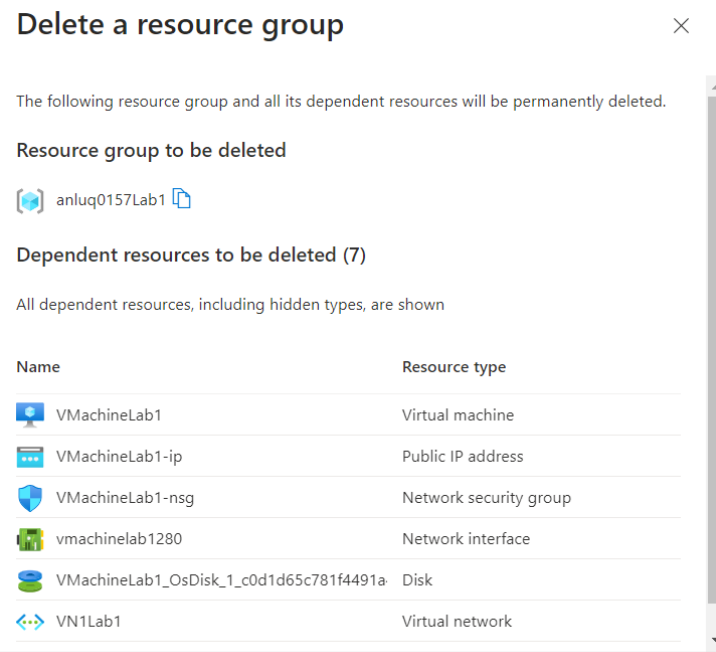
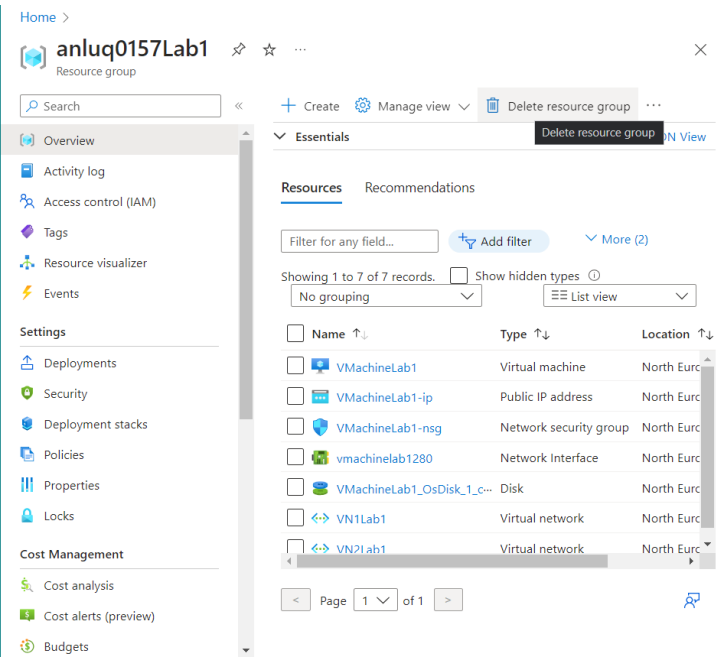
DNS name [Configure](#)

here we have already created it, now let's check if it works doing ping to google.com from PuTTY:

```
VMachineLab1@VMachineLab1: ~  
login as: VMachineLab1  
VMachineLab1@13.69.130.245's password:  
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1045-azure x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Mon Sep 11 12:26:43 UTC 2023  
  
System load:  0.16           Processes:            118  
Usage of /:   5.2% of 28.89GB Users logged in:        0  
Memory usage: 3%           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.  
  
VMachineLab1@VMachineLab1:~$
```

```
VMachineLab1@VMachineLab1: ~  
VMachineLab1@VMachineLab1:~$ ping google.com  
PING google.com (74.125.193.101) 56(84) bytes of data:  
64 bytes from di-in-f101.1e100.net (74.125.193.101): icmp_seq=1 ttl=56 time=0.80  
1 ms  
64 bytes from di-in-f101.1e100.net (74.125.193.101): icmp_seq=2 ttl=56 time=0.96  
1 ms  
64 bytes from di-in-f101.1e100.net (74.125.193.101): icmp_seq=3 ttl=56 time=0.92  
4 ms  
64 bytes from di-in-f101.1e100.net (74.125.193.101): icmp_seq=4 ttl=56 time=0.79  
7 ms  
64 bytes from di-in-f101.1e100.net (74.125.193.101): icmp_seq=5 ttl=56 time=0.87  
9 ms  
^Z  
[2]+  Stopped                  ping google.com  
VMachineLab1@VMachineLab1:~$
```

It works, so we will delete the resource group in order to not consume unnecessary resources:



Then, We are done.

Thanks for reading.