# AZURE BASIC FEATURES

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Storage services

Network services

Computing services

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# AZURE BASIC FEATURES

Storage services
- Azure blob storages
- Azure files

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# AZURE BASIC FEATURES

## Storage services

- Azure blob storages
- Azure files

## Network services

## Computing services

- Serving images or documents directly to a browser.
- Storing files for distributed access.
- Streaming video and audio.
- Writing to log files.
- Storing data for backup and restore, disaster recovery, and archiving.
- Storing data for analysis by an on-premises or Azure-hosted service.

# AZURE BASIC FEATURES

## Storage services

- Azure blob storages
- Azure files

## Network services

## Computing services

Aim to:
- Replace or supplement on-premises file servers
- "Lift and shift" applications
- Simplify cloud development

Using:
- Server Message Block (SMB) protocol
- Network File System (NFS) protocol
- Azure Files REST API

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# AZURE BASIC FEATURES

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- Virtual networks
- Load balancing

Computing services

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# AZURE BASIC FEATURES

Storage services

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- Virtual networks
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Computing services

- Communication of Azure resources with the internet.
- Communication between Azure resources.
- Communication with on-premises resources.
- Filtering of network traffic.
- Routing of network traffic.
- Integration with Azure services.

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Computing services

- Azure Front Door
- Traffic manager
- Application gateway
- Load balancer

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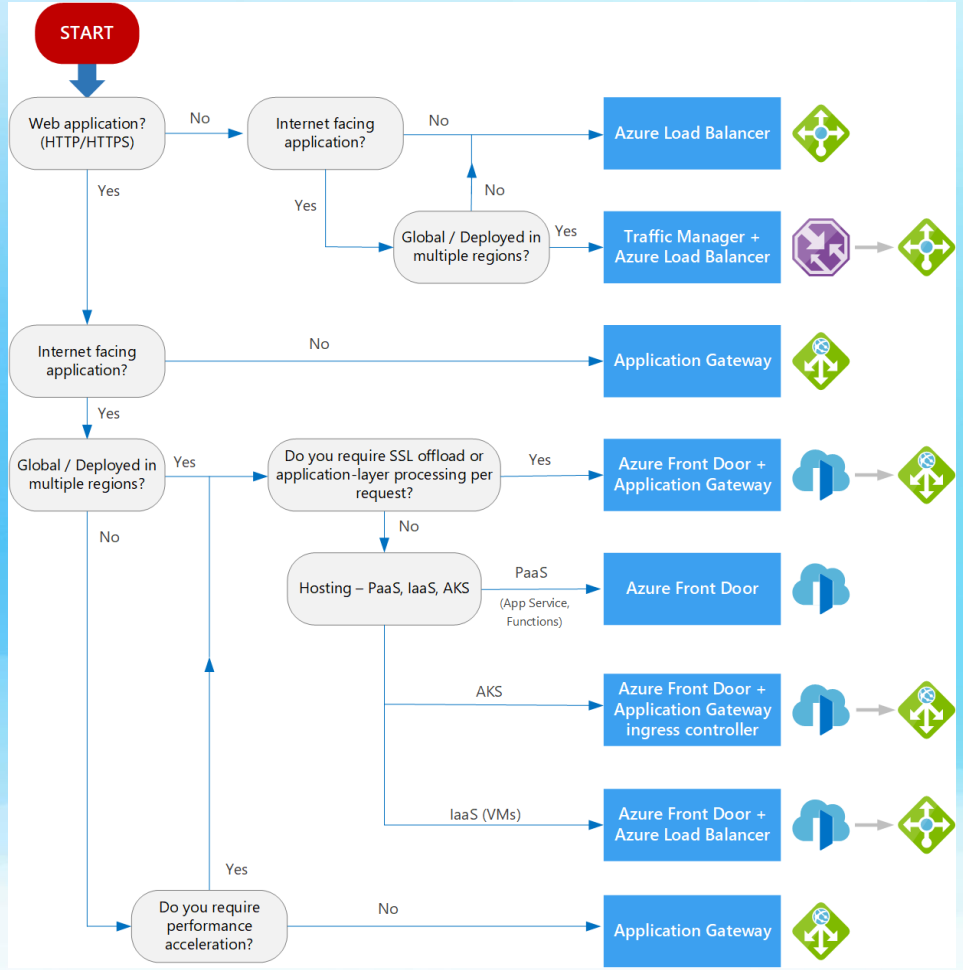


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Storage services

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# AZURE BASIC FEATURES

Storage services

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Computing services

- VMs
- Apps

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# AZURE BASIC FEATURES

Storage services

Network services

Computing services

- VMs
- Apps

Azure virtual machine gives you the flexibility of virtualization without having to buy and maintain the physical hardware that runs it. However, you still need to maintain the virtual machine by performing tasks, such as configuring, patching, and installing the software that runs on it.

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# AZURE BASIC FEATURES

Storage services

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Computing services

- VMs
- Apps

Enables you to build and host web apps, mobile back ends, and RESTful APIs in the programming language of your choice without managing infrastructure. It offers auto-scaling and high availability, supports both Windows and Linux, and enables automated deployments from GitHub, Azure DevOps.

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# In practice:

Deployment: network + subnetwork + VMs + load balancer – what to pay attention to?

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Do not use
SKU = Basic
Anything marked = (Classic)

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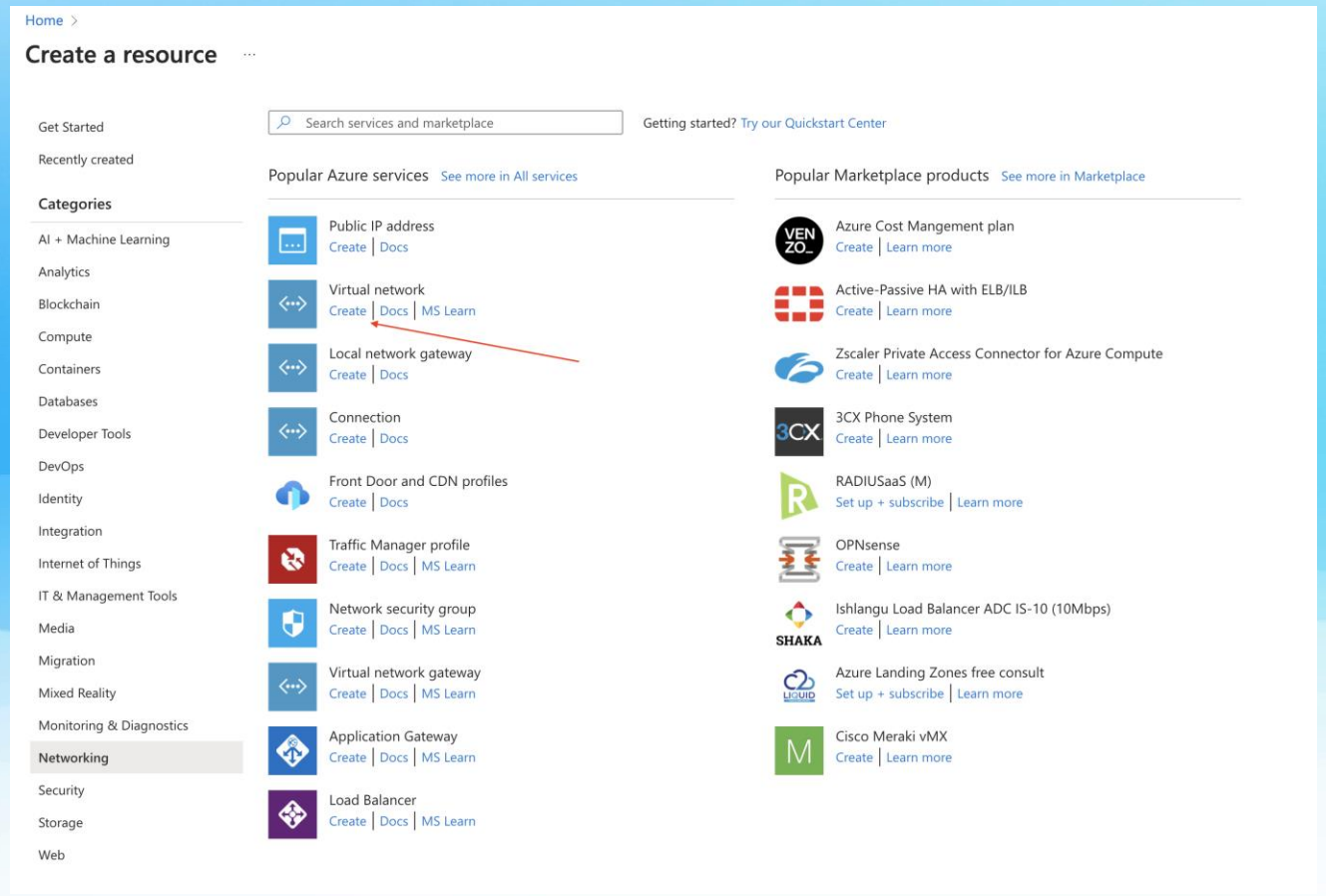

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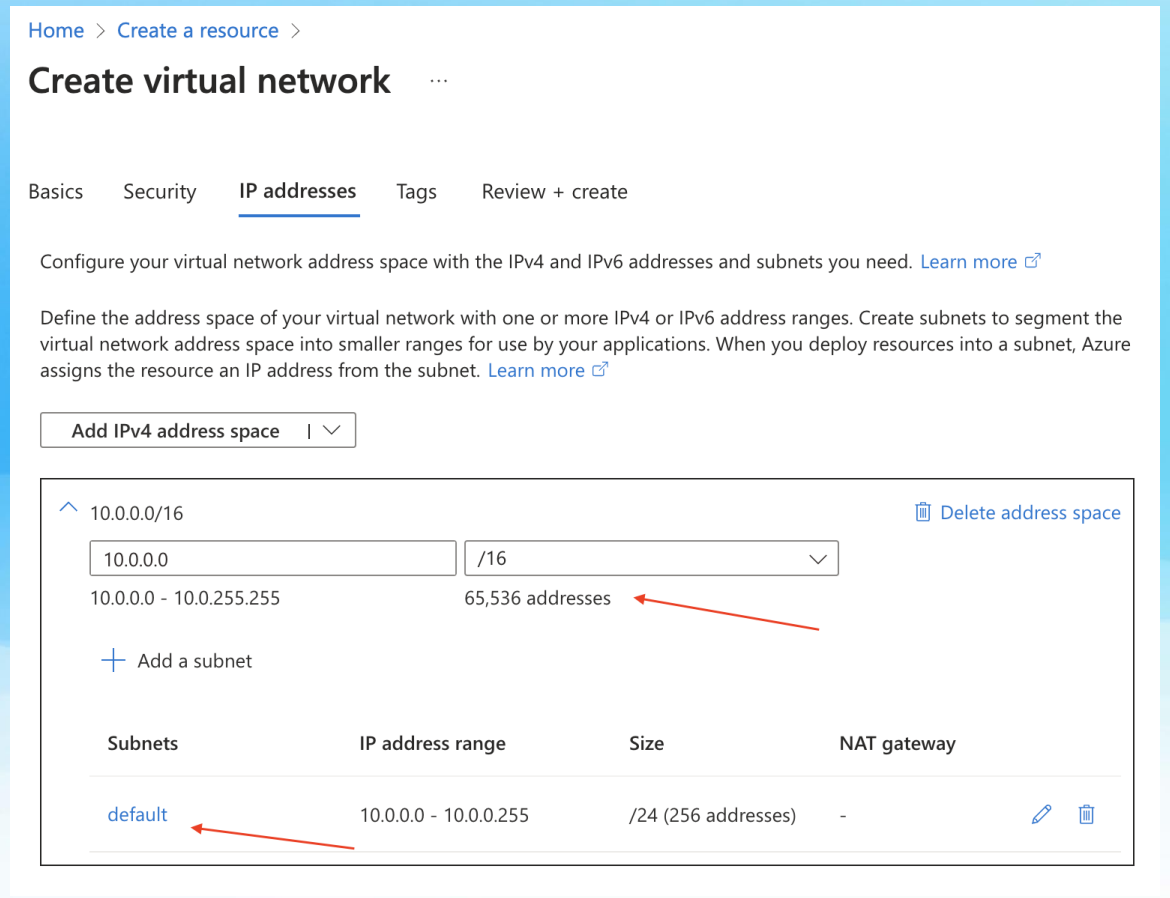

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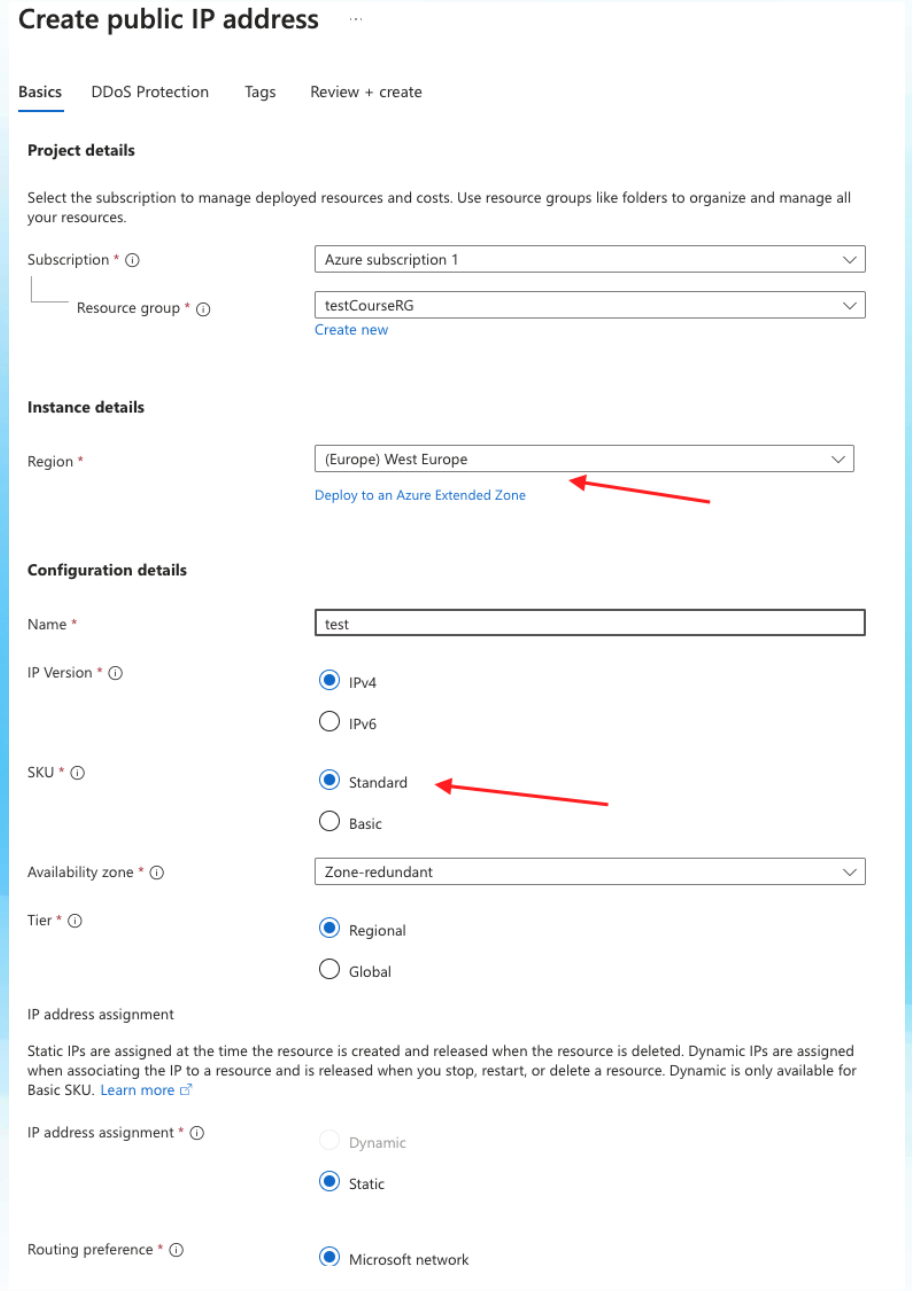

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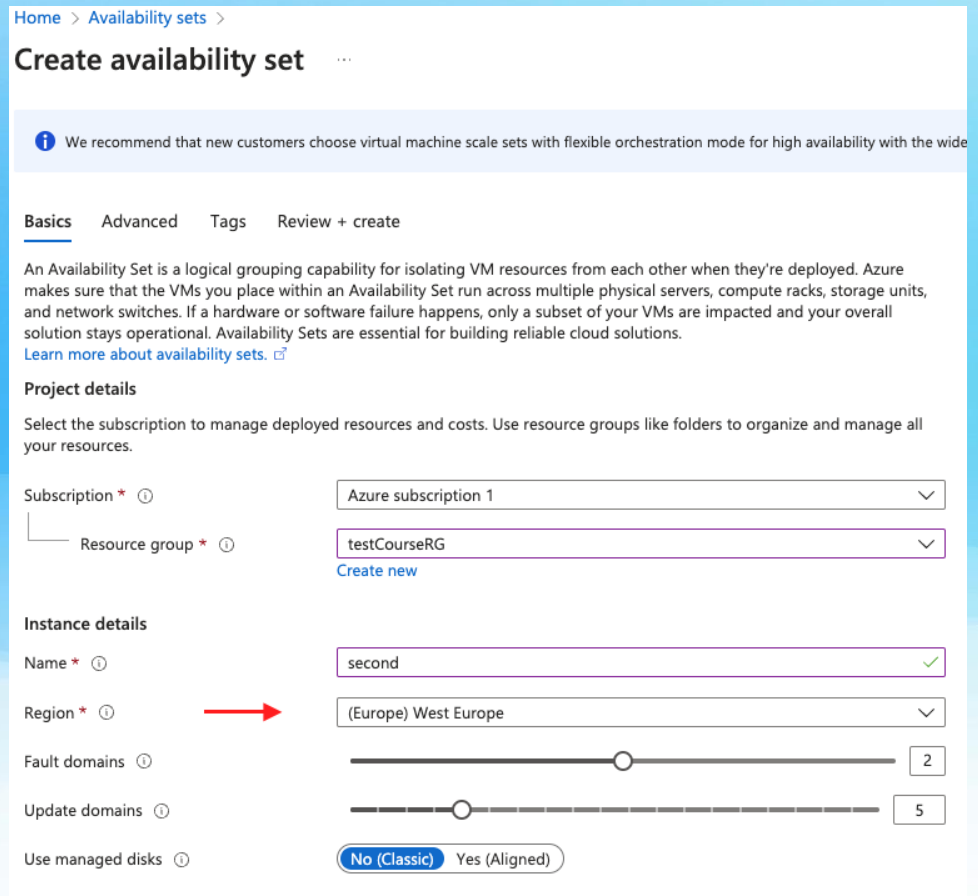

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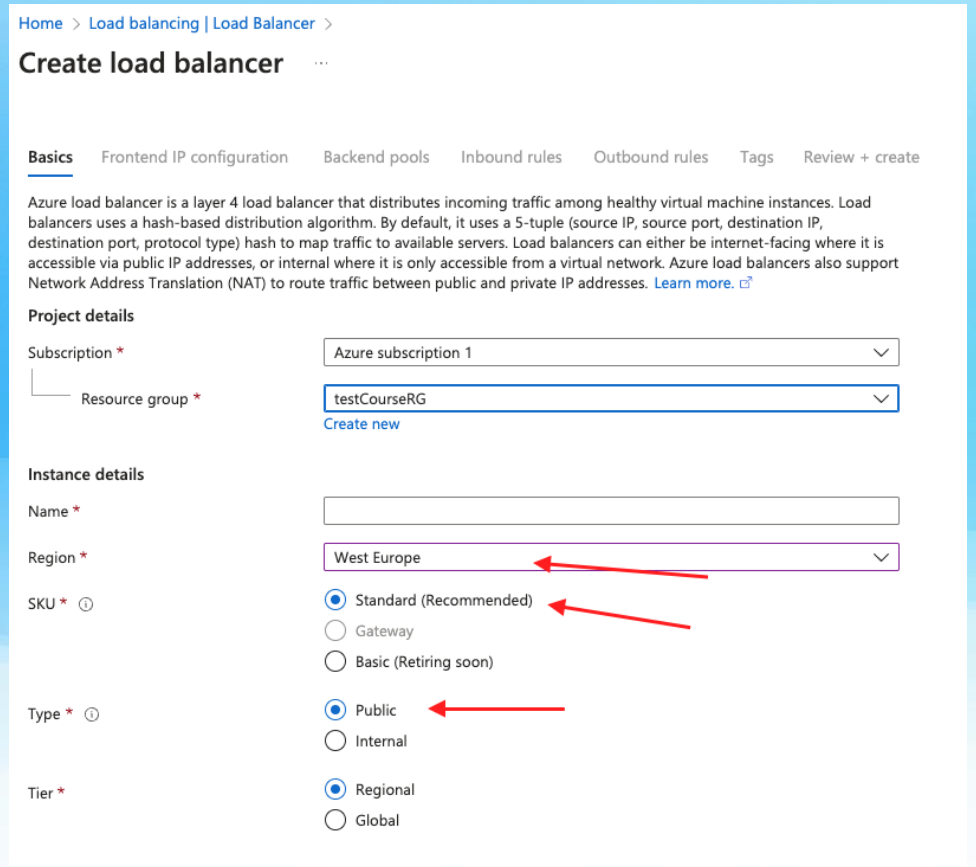

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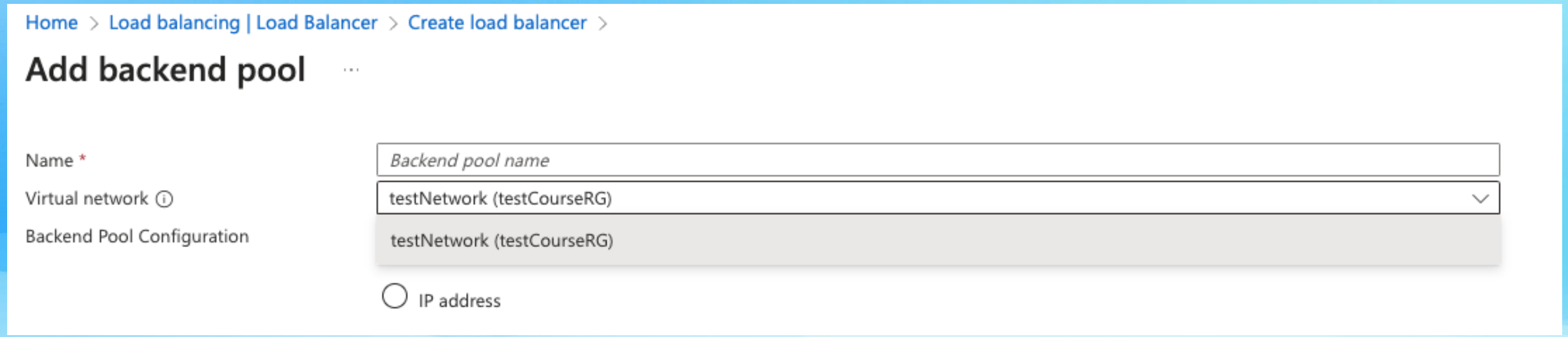

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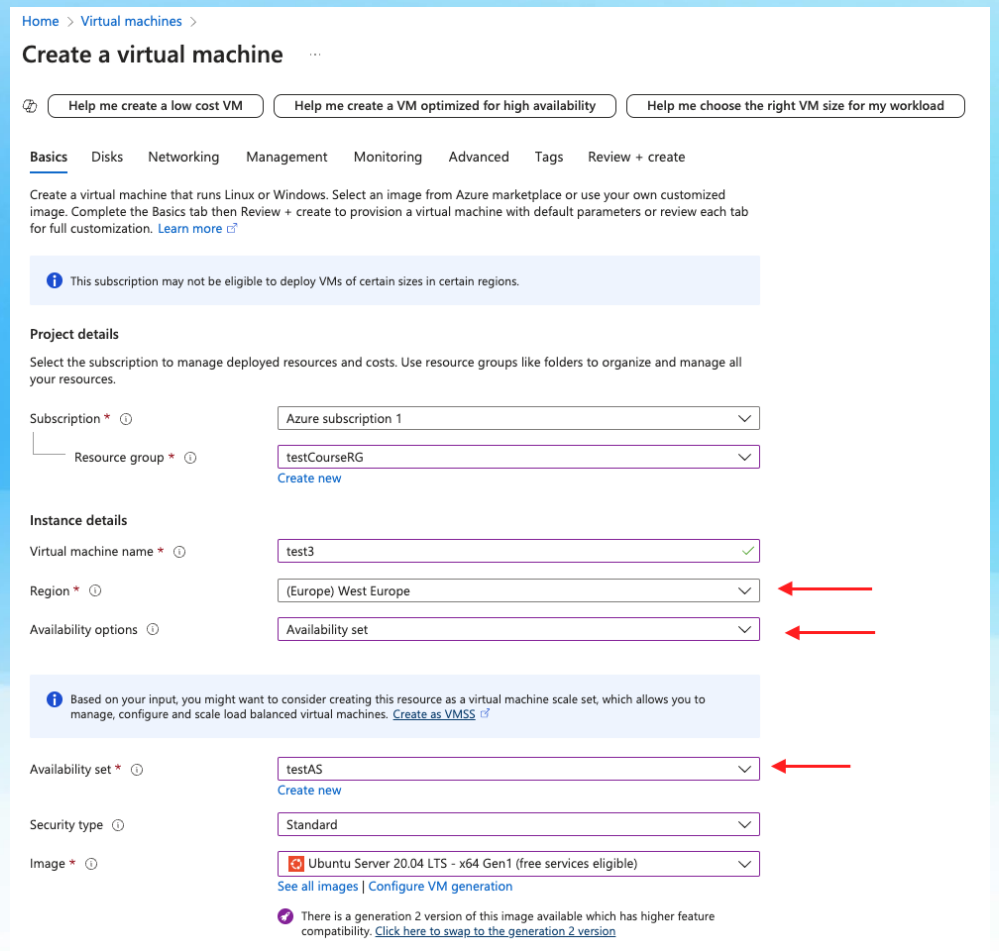

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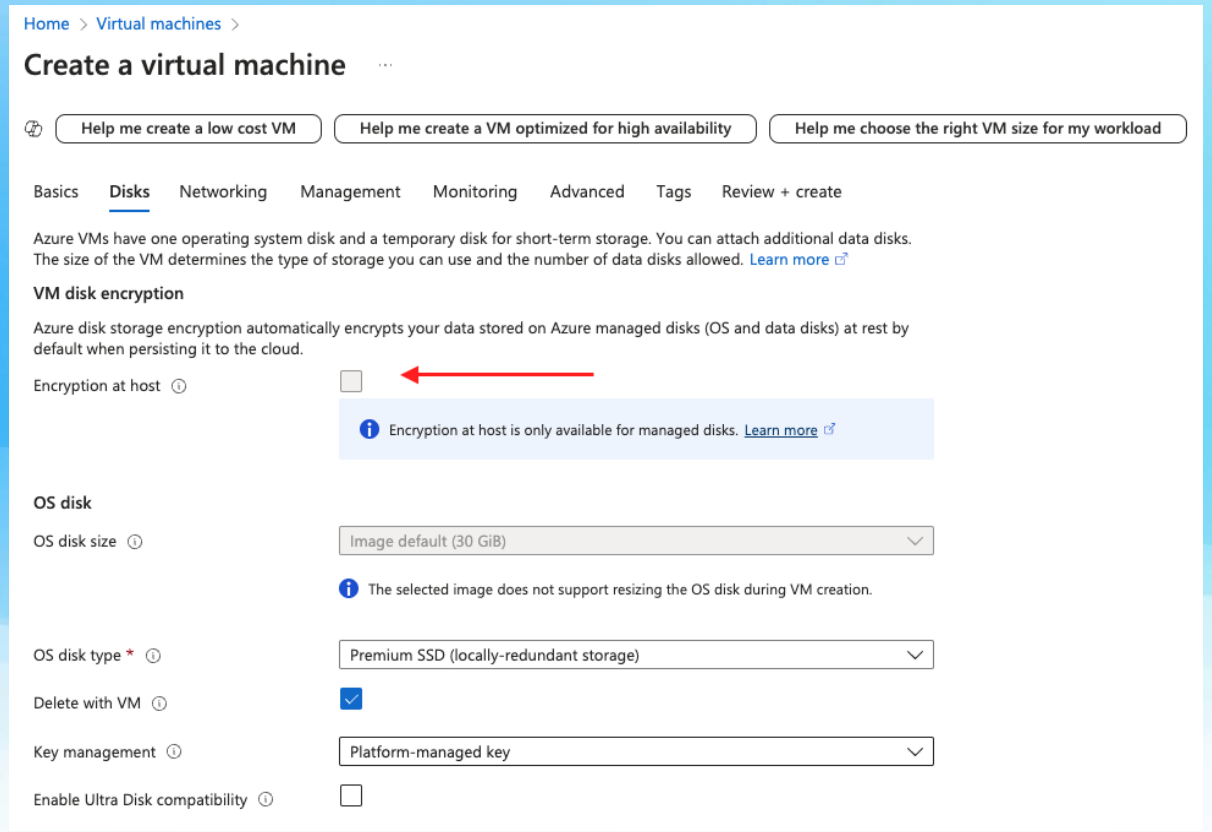

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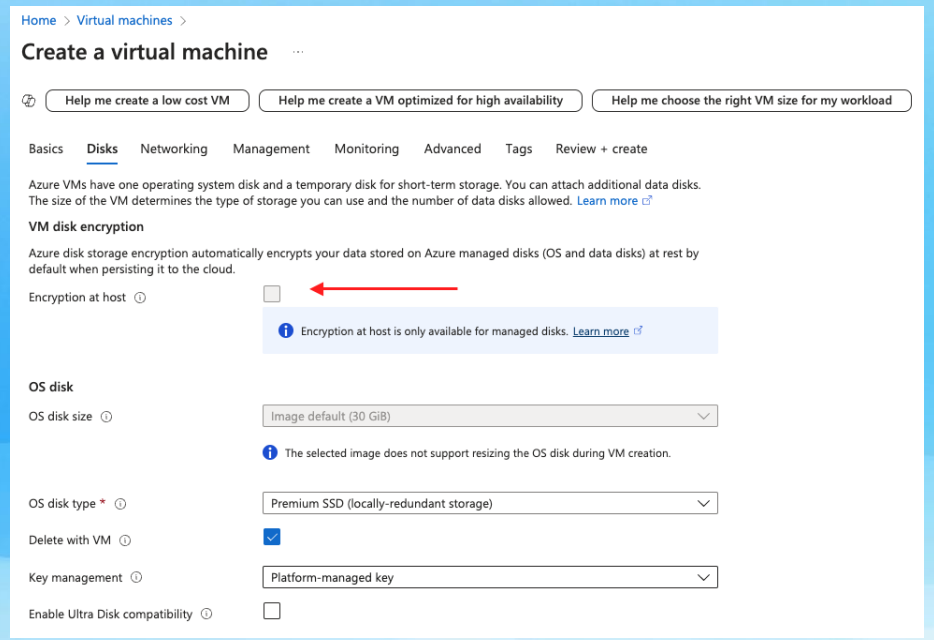


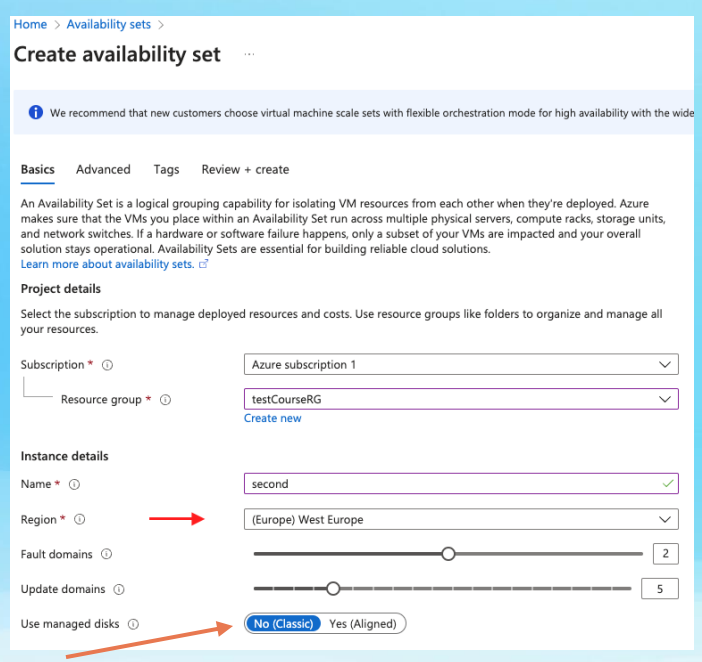


https://learn.microsoft.com/en-us/azure/virtual-machines/disks-enable-host-based-encryption-portal?tabs=azure-powershell#prerequisites

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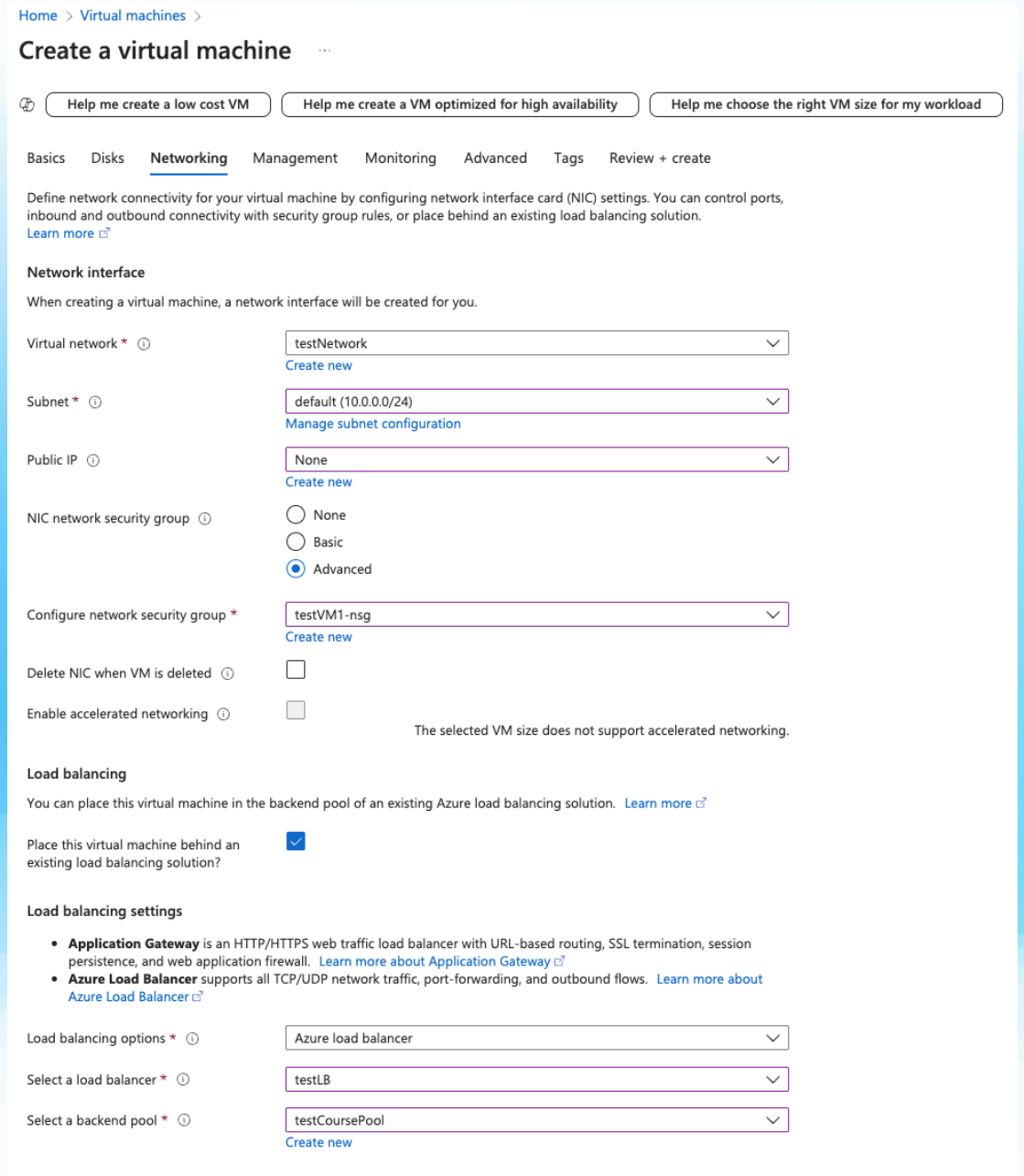


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# Homework:

- Create network + subnet
- Create load balancer with http traffic balancing
- Create 2 VMs behind the LB (access to VM only by the LB's IP)
- Install simple http server on each VM but make different start pages

  (e.g. 'Hello world!' & 'Hello world 2!' Or any visible difference by your choice)
- Invite my user to your directory – use email > testingkv13@gmail.com
- Provide the invited user with 'Contributor' role to the resource group with all resources related to the homework

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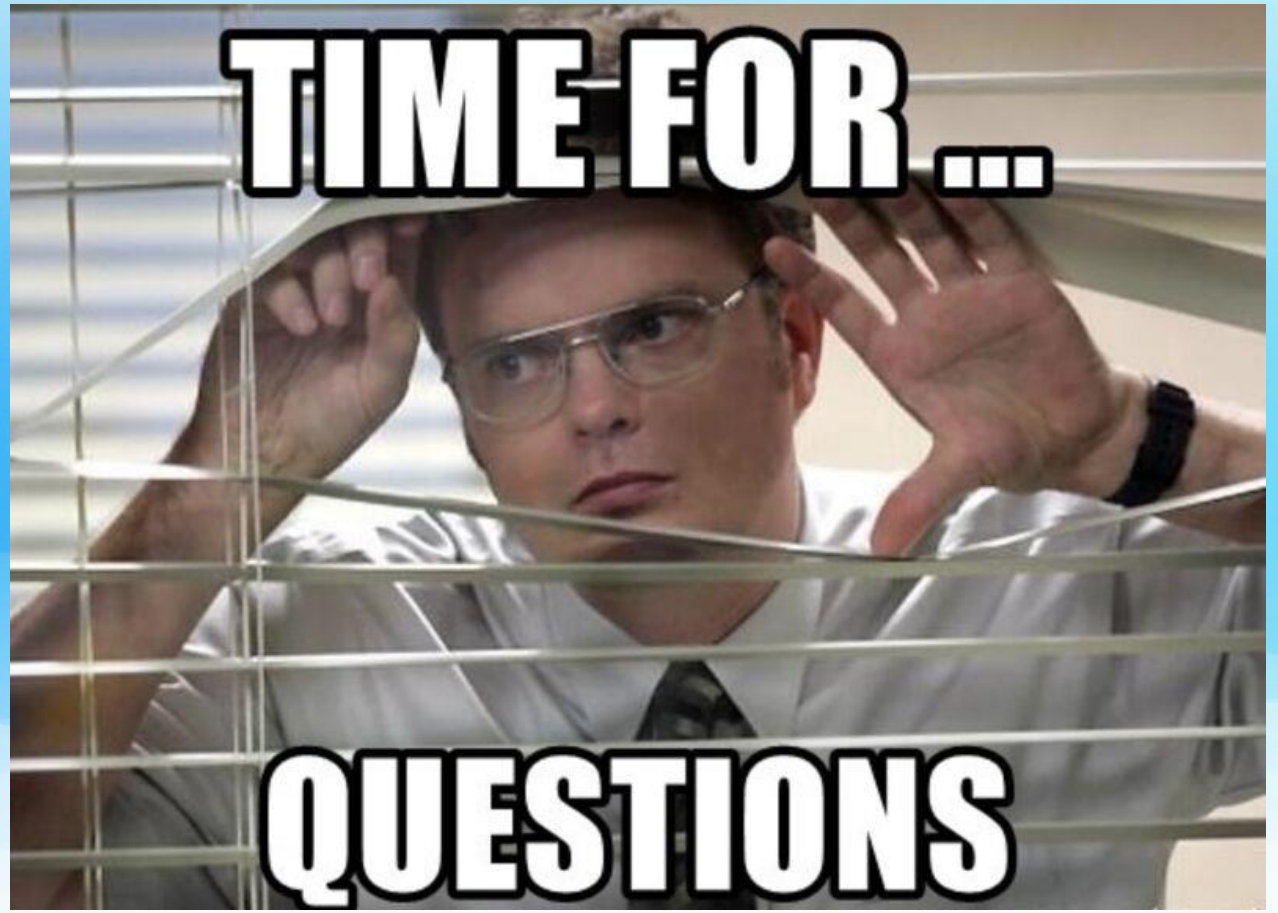
# Questions?

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