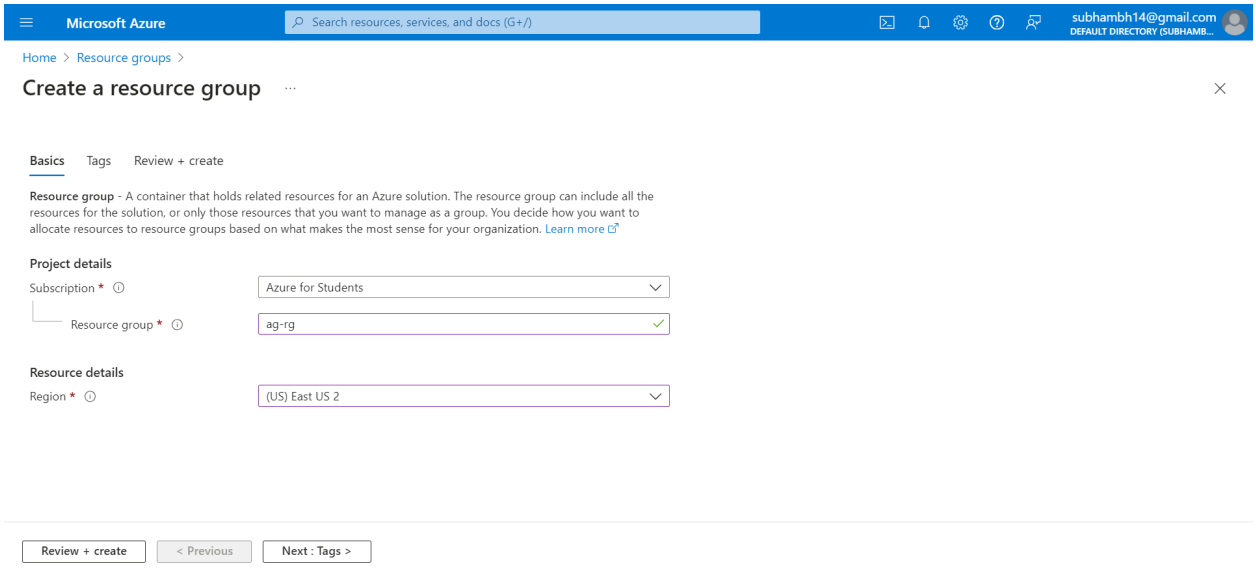
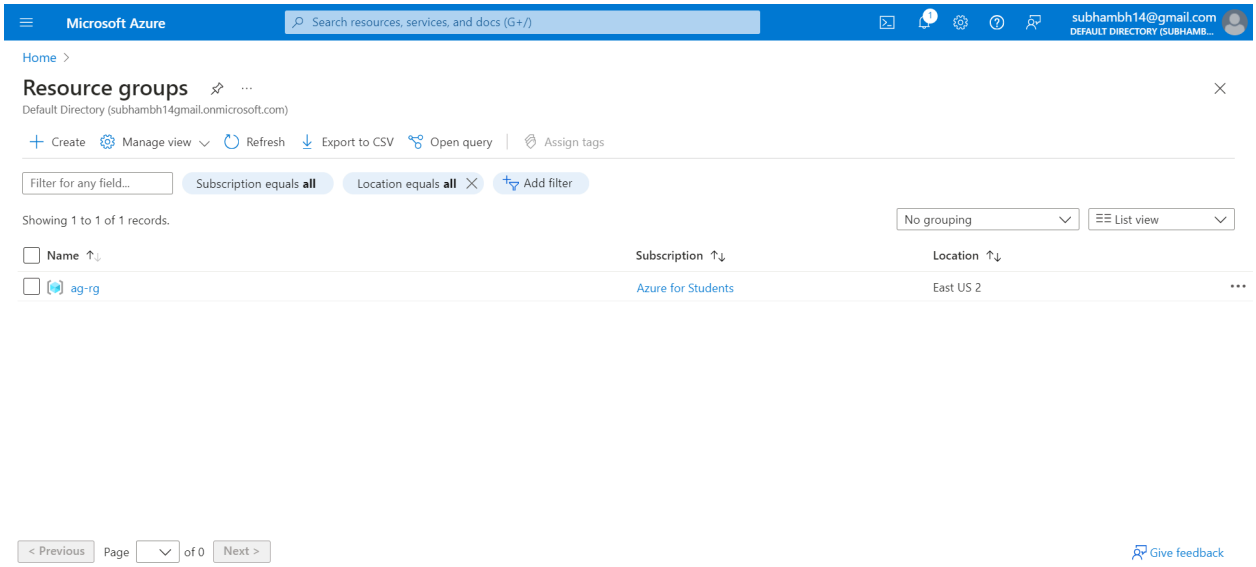
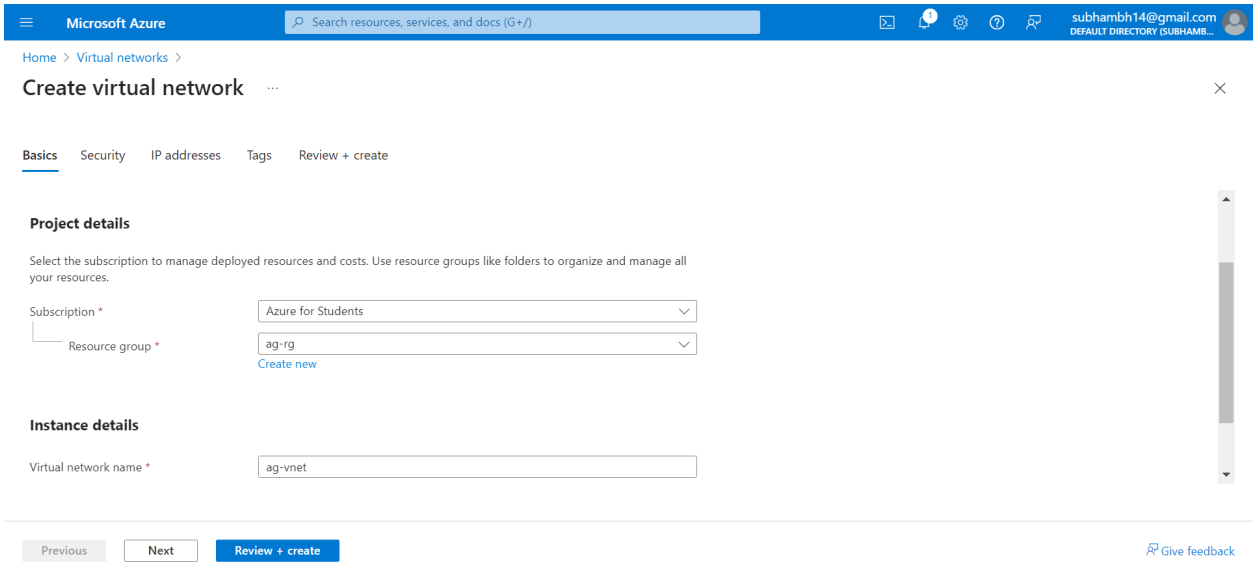
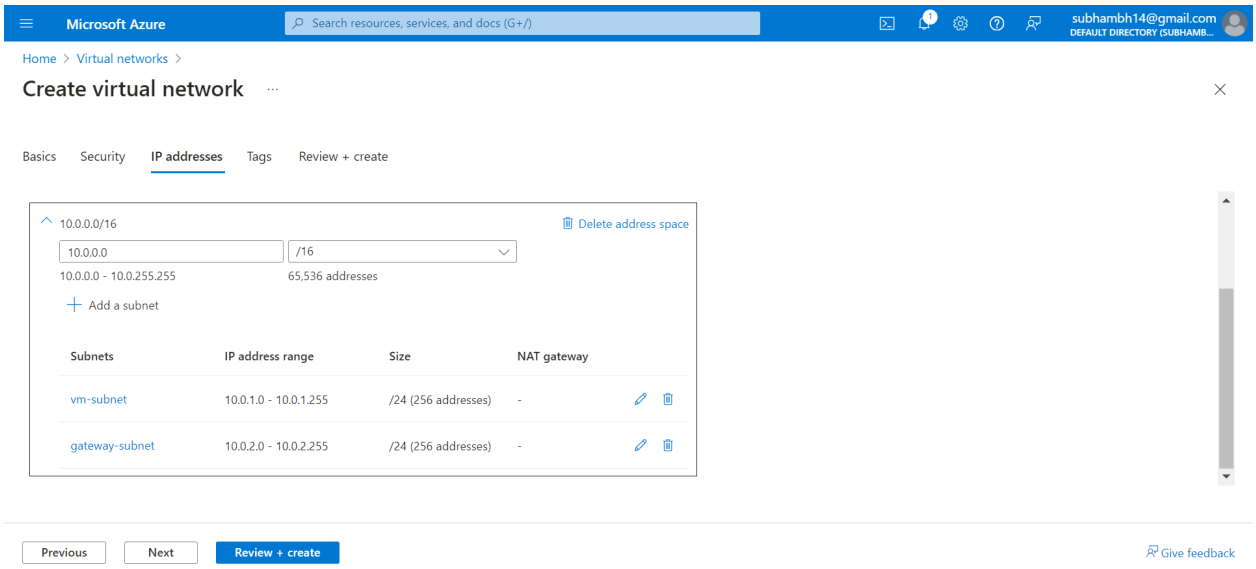
Application Gateway & Active Directory






Microsoft Azure
Search resources, services, and docs (G+/)
subhambh14@gmail.com
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual networks >
Create virtual network
Basics Security IP addresses Tags Review + create
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Azure for Students
Resource group *
ag-rg
Create new
Instance details
Virtual network name *
ag-vnet
Previous Next Review + create
Give feedback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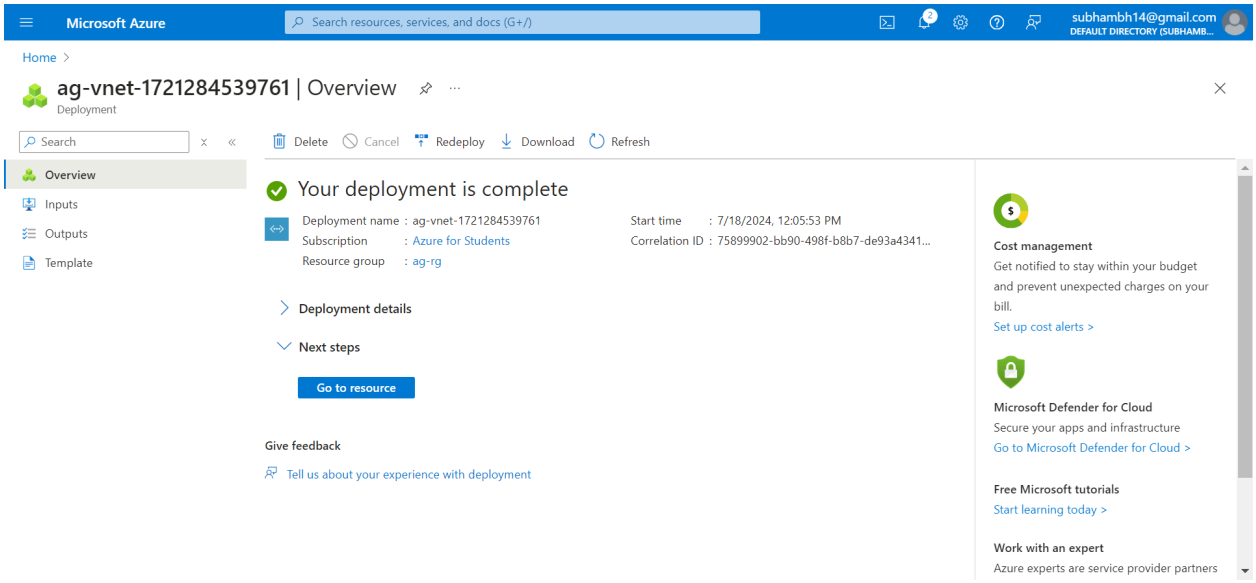
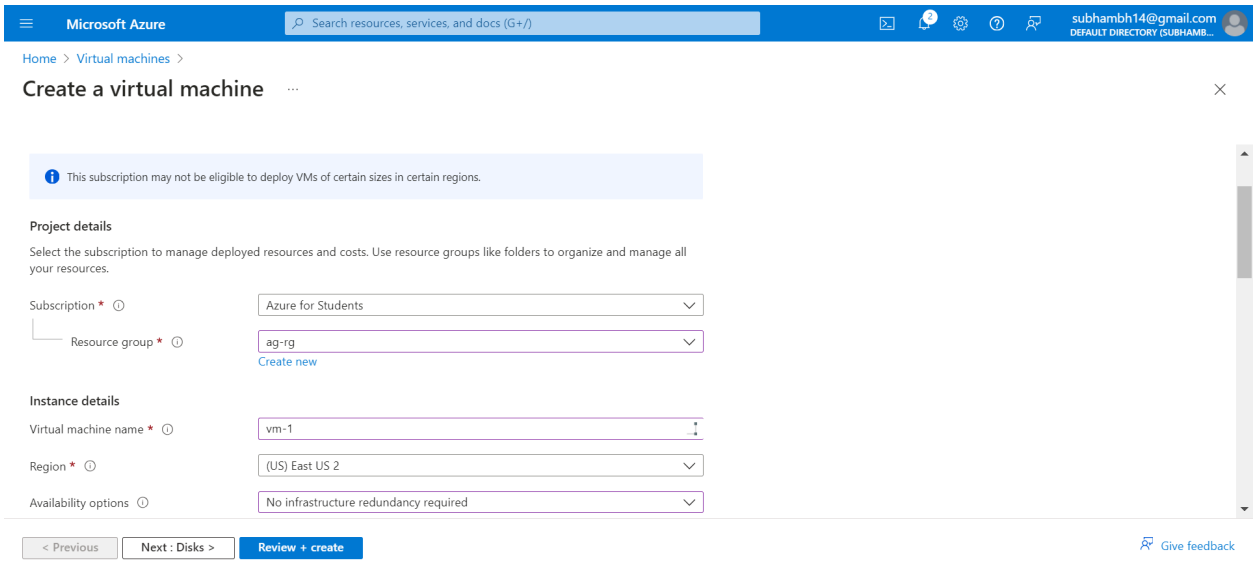
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual networks >
Create virtual network
Basics Security IP addresses Tags Review + create
10.0.0.0/16
Delete address space
10.0.0.0
/16
10.0.0.0 - 10.0.255.255
65,536 addresses
Add a subnet
Subnets
IP address range
Size
NAT gateway
vm-subnet
10.0.1.0 - 10.0.1.255
/24 (256 addresses)
-
gateway-subnet
10.0.2.0 - 10.0.2.255
/24 (256 addresses)
-
Previous Next Review + create
Give feedback


Microsoft Azure
Search resources, services, and docs (G+/)
subhambh14@gmail.com
DEFAULT DIRECTORY (SUBHAMB...
Home
ag-vnet-1721284539761 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name : ag-vnet-1721284539761
Subscription : Azure for Students
Resource group : ag-rg
Start time : 7/18/2024, 12:05:53 PM
Correlation ID : 75899902-bb90-498f-b8b7-de93a4341...
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners


Microsoft Azure
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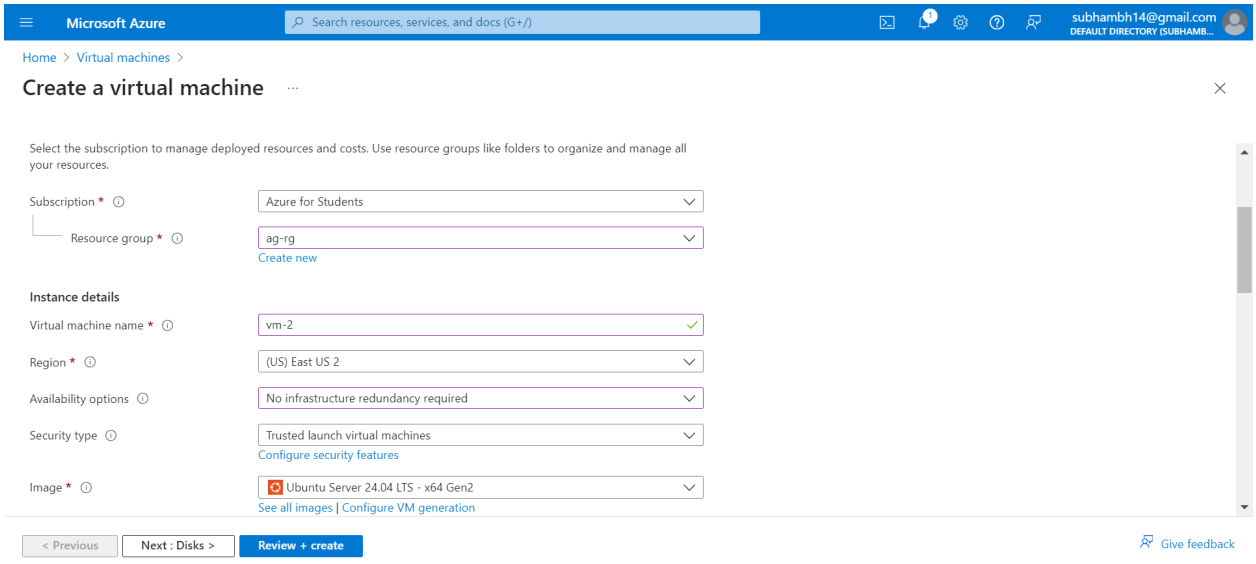
DEFAULT DIRECTORY (SUBHAMB...
Home
Virtual machines
Create a virtual machine
This subscription may not be eligible to deploy VMs of certain sizes in certain regions.
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Azure for Students
Resource group *
ag-rg
Create new
Instance details
Virtual machine name *
vm-1
Region *
(US) East US 2
Availability options
No infrastructure redundancy required
< Previous
Next : Disks >
Review + create
Give feedback


Microsoft Azure
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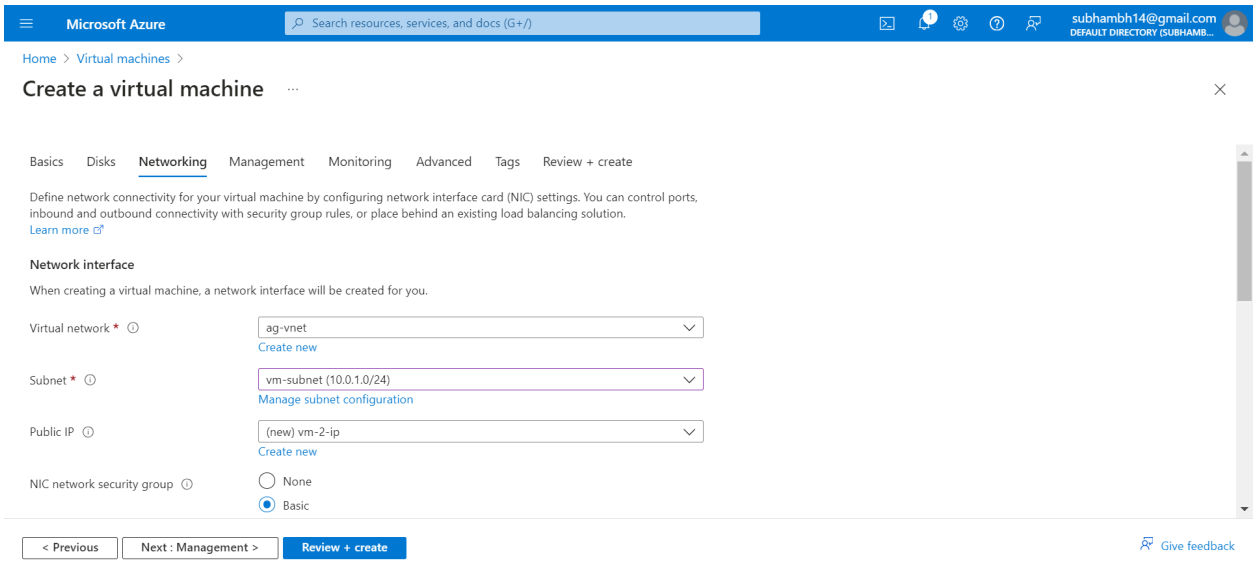
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual machines >
Create a virtual machine
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription * Azure for Students
Resource group * ag-rg
Create new
Instance details
Virtual machine name * vm-2
Region * (US) East US 2
Availability options No infrastructure redundancy required
Security type Trusted launch virtual machines
Configure security features
Image * Ubuntu Server 24.04 LTS - x64 Gen2
See all images | Configure VM generation
< Previous
Next : Disks >
Review + create
Give feedback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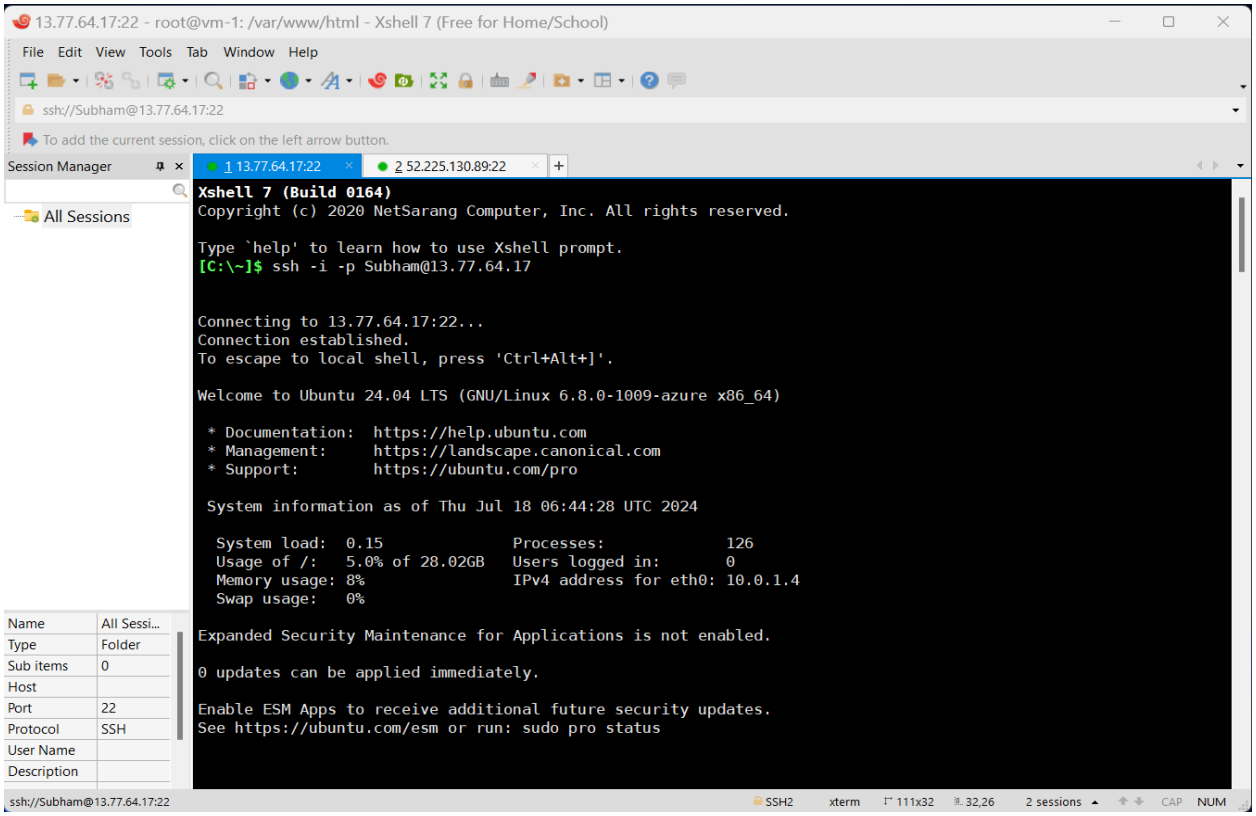
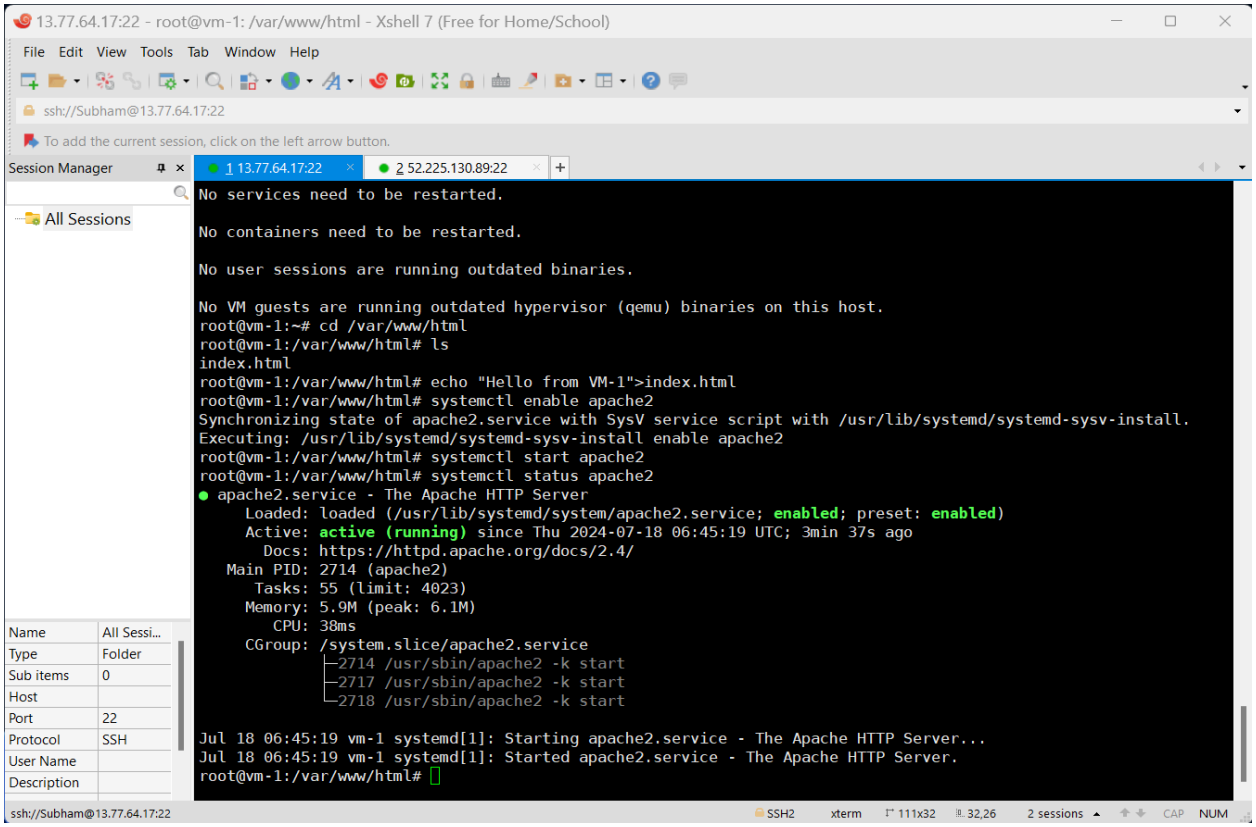
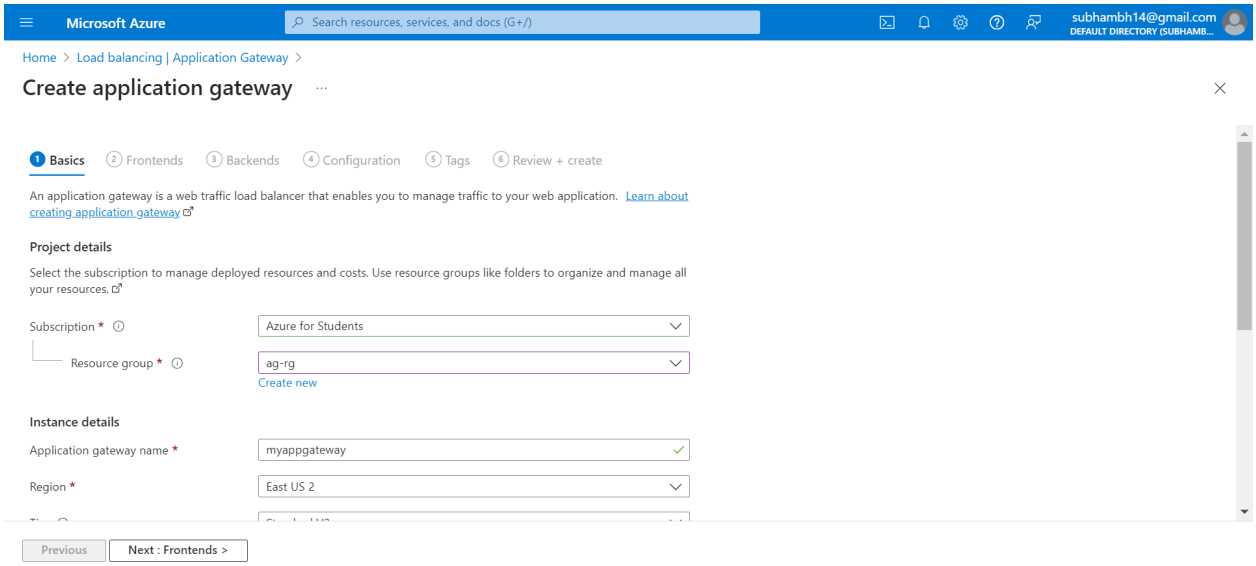
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual machines >
Create a virtual machine
Basics Disks Networking Management Monitoring Advanced Tags Review + create
Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound 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 * ag-vnet
Create new
Subnet * vm-subnet (10.0.1.0/24)
Manage subnet configuration
Public IP (new) vm-2-ip
Create new
NIC network security group None Basic
< Previous
Next : Management >
Review + create
Give feedback


13.77.64.17:22 - root@vm-1: /var/www/html - Xshell 7 (Free for Home/School)
File Edit View Tools Tab Window Help
ssh://Subham@13.77.64.17:22
To add the current session, click on the left arrow button.
Session Manager
All Sessions
1 13.77.64.17:22
2 52.225.130.89:22
Xshell 7 (Build 0164)
Copyright (c) 2020 NetSarang Computer, Inc. All rights reserved.
Type `help' to learn how to use Xshell prompt.
[C:\~]$ ssh -i -p Subham@13.77.64.17
Connecting to 13.77.64.17:22...
Connection established.
To escape to local shell, press 'Ctrl+Alt+]'.
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Thu Jul 18 06:44:28 UTC 2024
System load: 0.15 Processes: 126
Usage of /: 5.0% of 28.02GB Users logged in: 0
Memory usage: 8% IPv4 address for eth0: 10.0.1.4
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
Name All Sessi...
Type Folder
Sub items 0
Host
Port 22
Protocol SSH
User Name
Description
ssh://Subham@13.77.64.17:22
SSH2 xterm 111x32 32,26 2 sessions CAP NUM


13.77.64.17:22 - root@vm-1: /var/www/html - Xshell 7 (Free for Home/School)
File Edit View Tools Tab Window Help
ssh://Subham@13.77.64.17:22
To add the current session, click on the left arrow button.
Session Manager
All Sessions
1 13.77.64.17:22
2 52.225.130.89:22
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.
root@vm-1:~# cd /var/www/html
root@vm-1:/var/www/html# ls
index.html
root@vm-1:/var/www/html# echo "Hello from VM-1">index.html
root@vm-1:/var/www/html# systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
root@vm-1:/var/www/html# systemctl start apache2
root@vm-1:/var/www/html# systemctl status apache2
● apache2.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
Active: active (running) since Thu 2024-07-18 06:45:19 UTC; 3min 37s ago
Docs: https://httpd.apache.org/docs/2.4/
Main PID: 2714 (apache2)
Tasks: 55 (limit: 4023)
Memory: 5.9M (peak: 6.1M)
CPU: 38ms
CGroup: /system.slice/apache2.service
├─2714 /usr/sbin/apache2 -k start
├─2717 /usr/sbin/apache2 -k start
└─2718 /usr/sbin/apache2 -k start
Jul 18 06:45:19 vm-1 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Jul 18 06:45:19 vm-1 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@vm-1:/var/www/html#
Name All Sessi...
Type Folder
Sub items 0
Host
Port 22
Protocol SSH
User Name
Description
ssh://Subham@13.77.64.17:22
SSH2 xterm 111x32 32,26 2 sessions CAP NUM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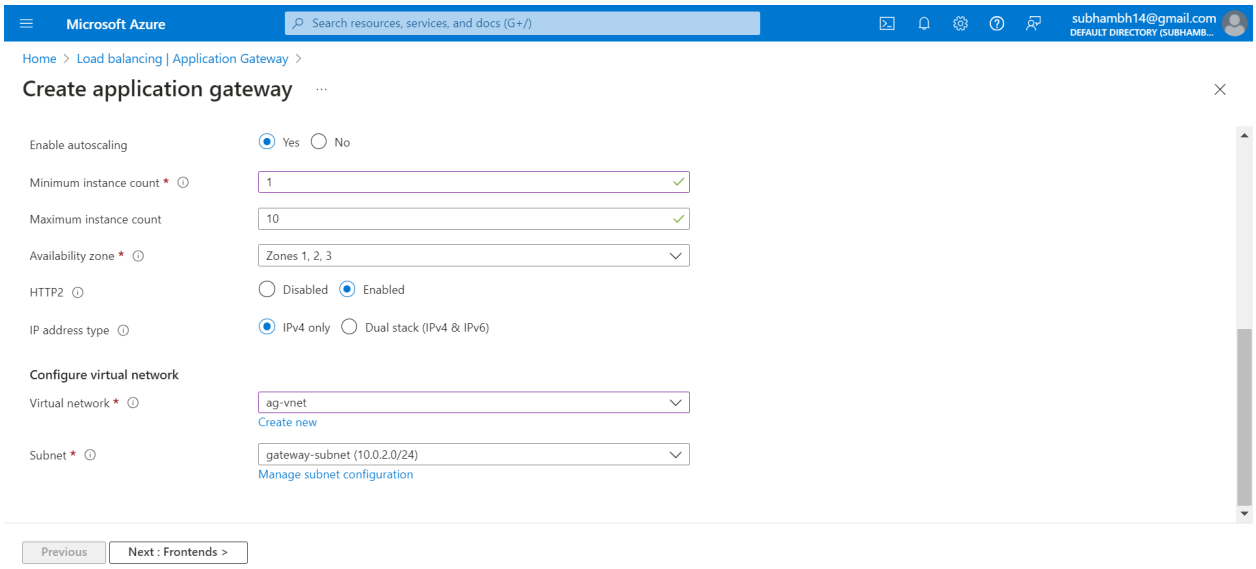
DEFAULT DIRECTORY (SUBHAMB...
Home > Load balancing | Application Gateway >
Create application gateway
1 Basics
2 Frontends
3 Backends
4 Configuration
5 Tags
6 Review + create
An application gateway is a web traffic load balancer that enables you to manage traffic to your web application. Learn about creating application gateway
Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Azure for Students
Resource group *
ag-rg
Create new
Instance details
Application gateway name *
myappgateway
Region *
East US 2
Previous
Next : Frontends >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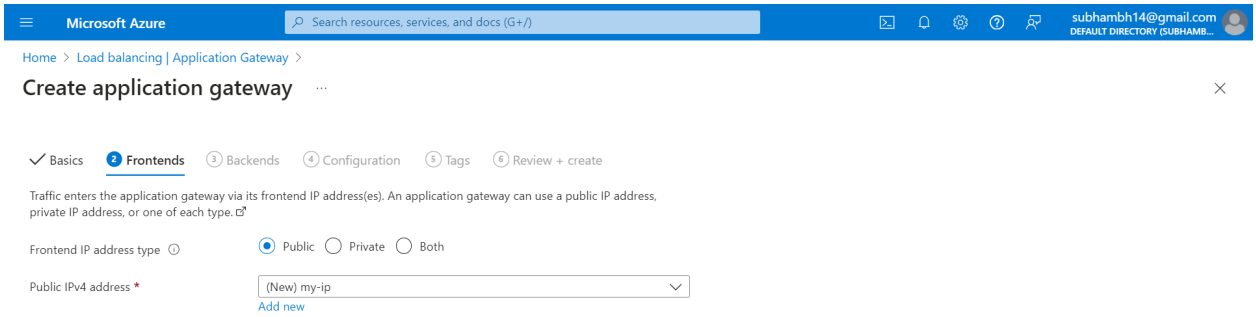
DEFAULT DIRECTORY (SUBHAMB...
Home > Load balancing | Application Gateway >
Create application gateway
Enable autoscaling
Yes
No
Minimum instance count *
1
Maximum instance count
10
Availability zone *
Zones 1, 2, 3
HTTP2
Disabled
Enabled
IP address type
IPv4 only
Dual stack (IPv4 & IPv6)
Configure virtual network
Virtual network *
ag-vnet
Create new
Subnet *
gateway-subnet (10.0.2.0/24)
Manage subnet configuration
Previous
Next : Frontends >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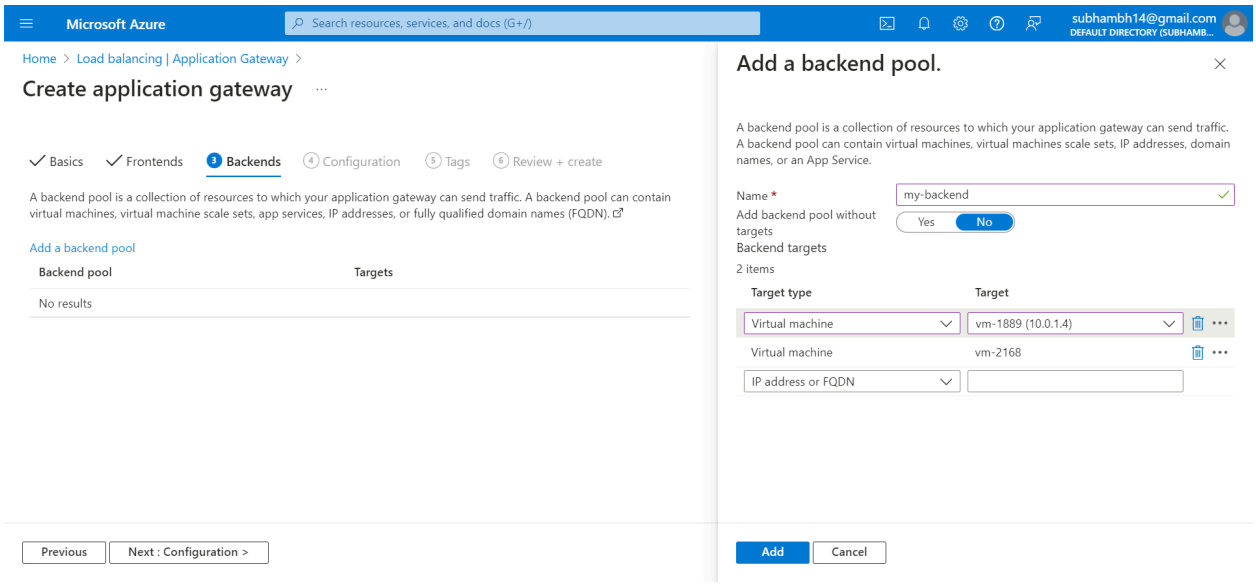
DEFAULT DIRECTORY (SUBHAMB...
Home > Load balancing | Application Gateway >
Create application gateway
Basics
2 Frontends
3 Backends
4 Configuration
5 Tags
6 Review + create
Traffic enters the application gateway via its frontend IP address(es). An application gateway can use a public IP address, private IP address, or one of each type.
Frontend IP address type
Public
Private
Both
Public IPv4 address *
(New) my-ip
Add new
Previous
Next : Backends >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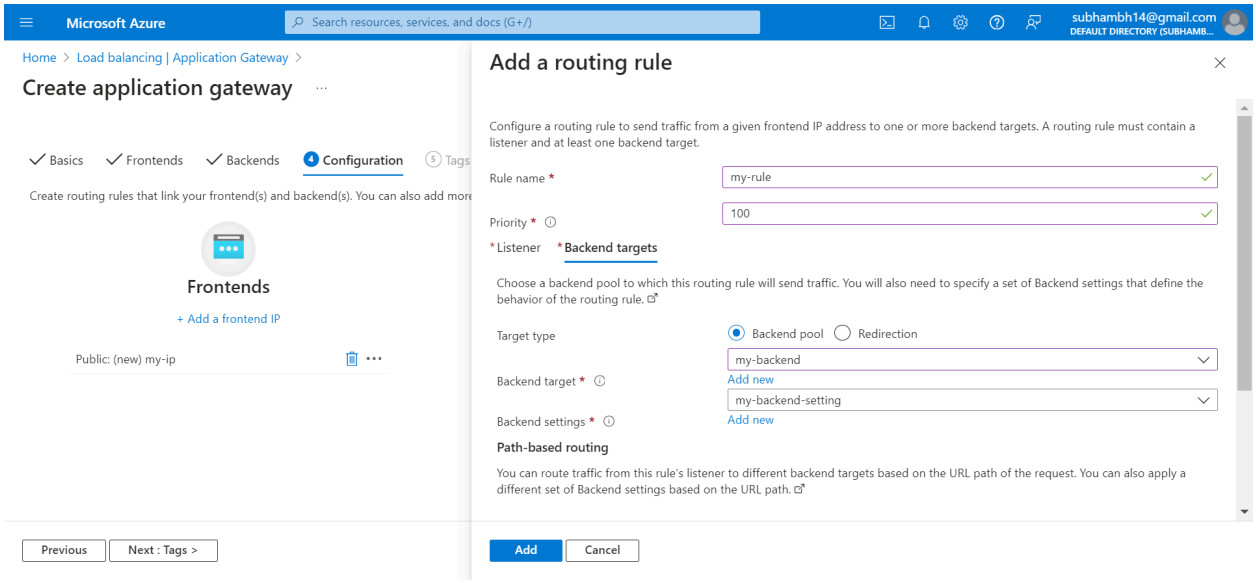
DEFAULT DIRECTORY (SUBHAMB...
Home > Load balancing | Application Gateway >
Create application gateway
Basics
Frontends
3 Backends
4 Configuration
5 Tags
6 Review + create
A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machine scale sets, app services, IP addresses, or fully qualified domain names (FQDN).
Add a backend pool
Backend pool
Targets
No results
Previous
Next : Configuration >
Add a backend pool.
A backend pool is a collection of resources to which your application gateway can send traffic. A backend pool can contain virtual machines, virtual machines scale sets, IP addresses, domain names, or an App Service.
Name *
my-backend
Add backend pool without targets
Yes
No
Backend targets
2 items
Target type
Target
Virtual machine
vm-1889 (10.0.1.4)
Virtual machine
vm-2168
IP address or FQDN
Add
Cancel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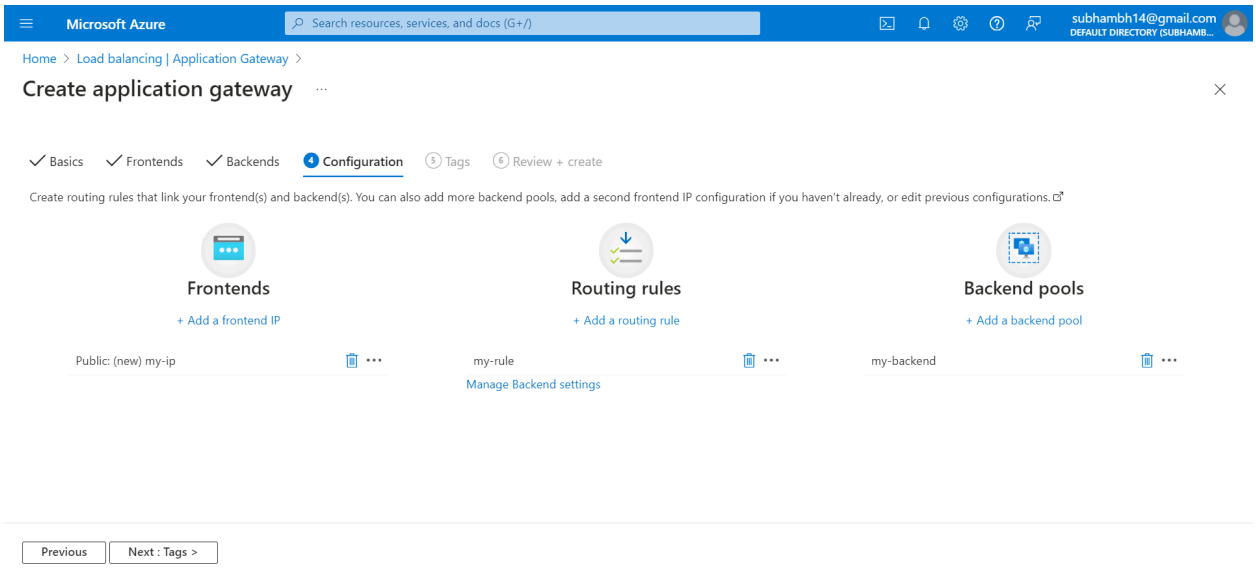
DEFAULT DIRECTORY (SUBHAMB...
Home > Load balancing | Application Gateway >
Create application gateway
Basics
Frontends
Backends
4 Configuration
Tags
Create routing rules that link your frontend(s) and backend(s). You can also add more
Frontends
+ Add a frontend IP
Public: (new) my-ip
Previous
Next : Tags >
Add a routing rule
Configure a routing rule to send traffic from a given frontend IP address to one or more backend targets. A routing rule must contain a listener and at least one backend target.
Rule name *
my-rule
Priority *
100
*Listener
*Backend targets
Choose a backend pool to which this routing rule will send traffic. You will also need to specify a set of Backend settings that define the behavior of the routing rule.
Target type
Backend pool
Redirection
Backend target *
my-backend
Add new
Backend settings *
my-backend-setting
Add new
Path-based routing
You can route traffic from this rule's listener to different backend targets based on the URL path of the request. You can also apply a different set of Backend settings based on the URL path.
Add
Cancel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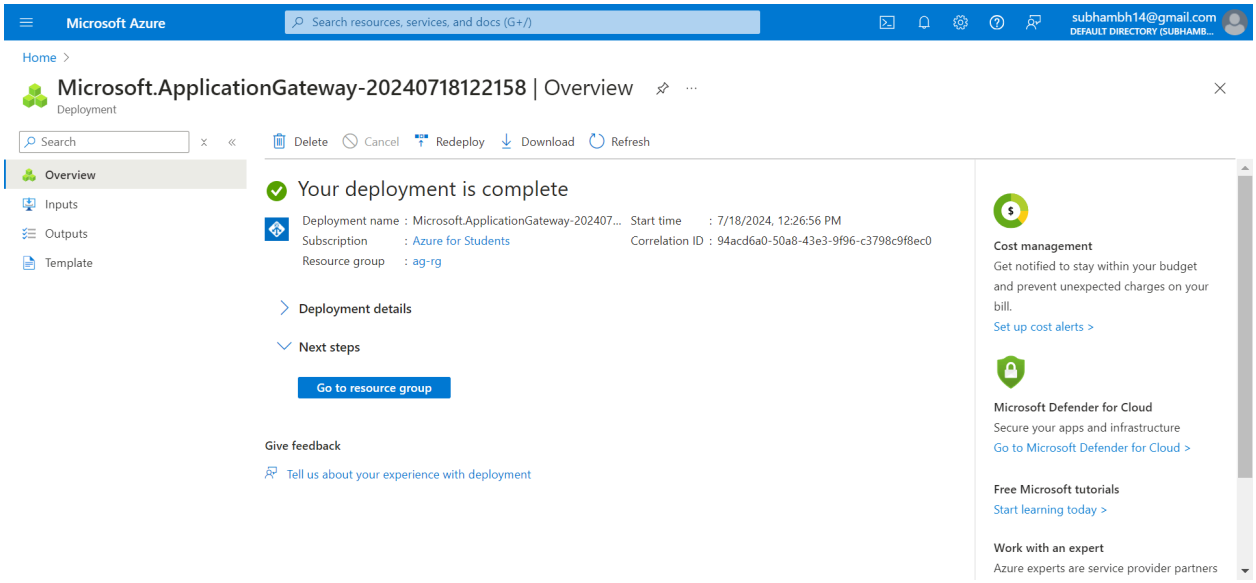
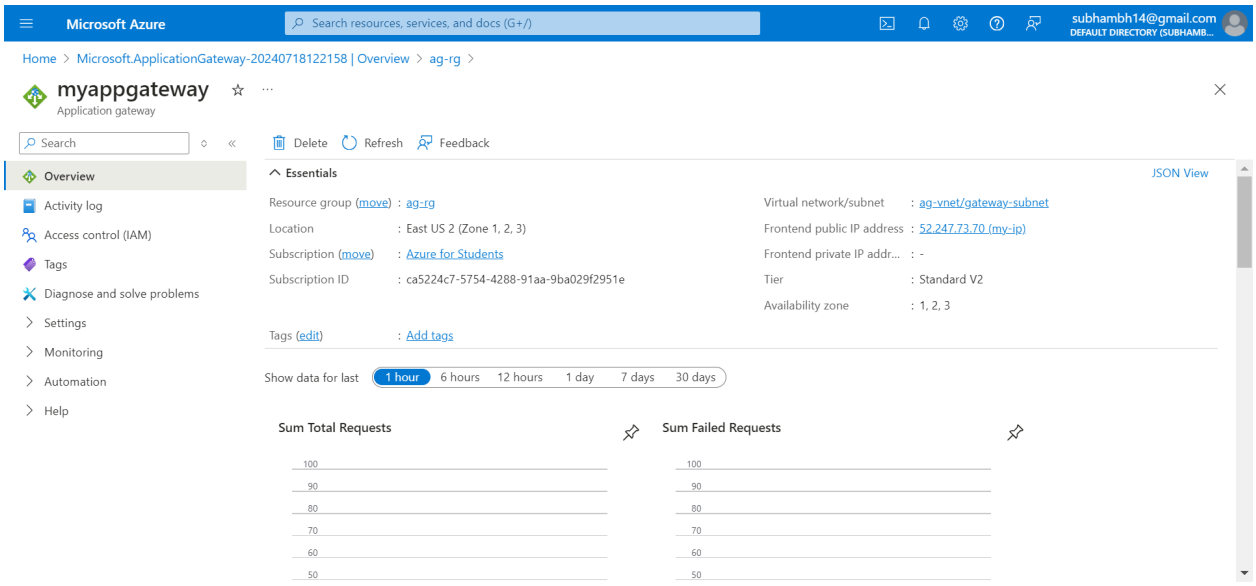
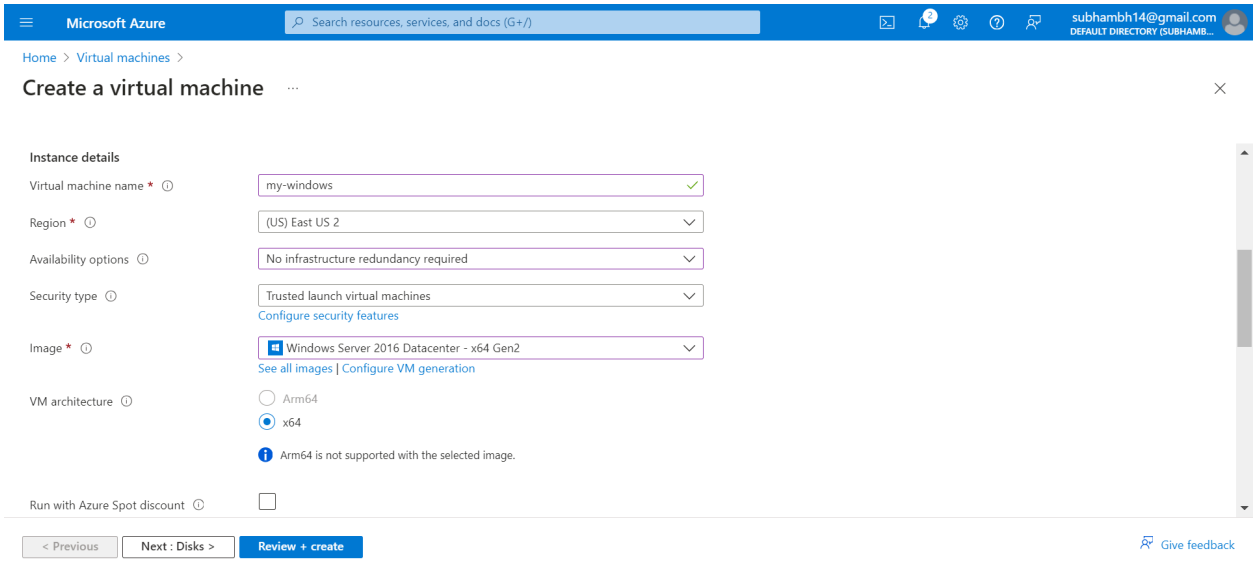
DEFAULT DIRECTORY (SUBHAMB...
Home > Load balancing | Application Gateway >
Create application gateway
Basics
Frontends
Backends
4 Configuration
Tags
Review + create
Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second frontend IP configuration if you haven't already, or edit previous configurations.
Frontends
+ Add a frontend IP
Public: (new) my-ip
Routing rules
+ Add a routing rule
my-rule
Manage Backend settings
Backend pools
+ Add a backend pool
my-backend
Previous
Next : Tags >





Hello from VM-2

Hello from VM-1


Microsoft Azure
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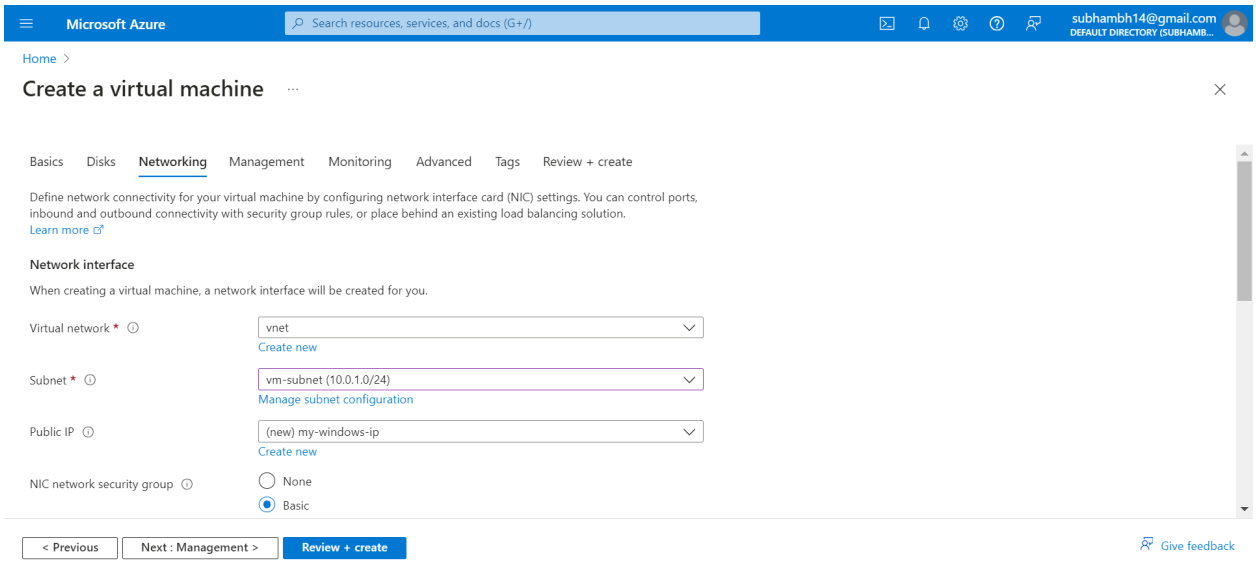
DEFAULT DIRECTORY (SUBHAMB...
Home > Virtual machines >
Create a virtual machine
Instance details
Virtual machine name *
my-windows
Region *
(US) East US 2
Availability options
No infrastructure redundancy required
Security type
Trusted launch virtual machines
Configure security features
Image *
Windows Server 2016 Datacenter - x64 Gen2
See all images | Configure VM generation
VM architecture
Arm64
x64
Arm64 is not supported with the selected image.
Run with Azure Spot discount
< Previous
Next : Disks >
Review + create
Give feedback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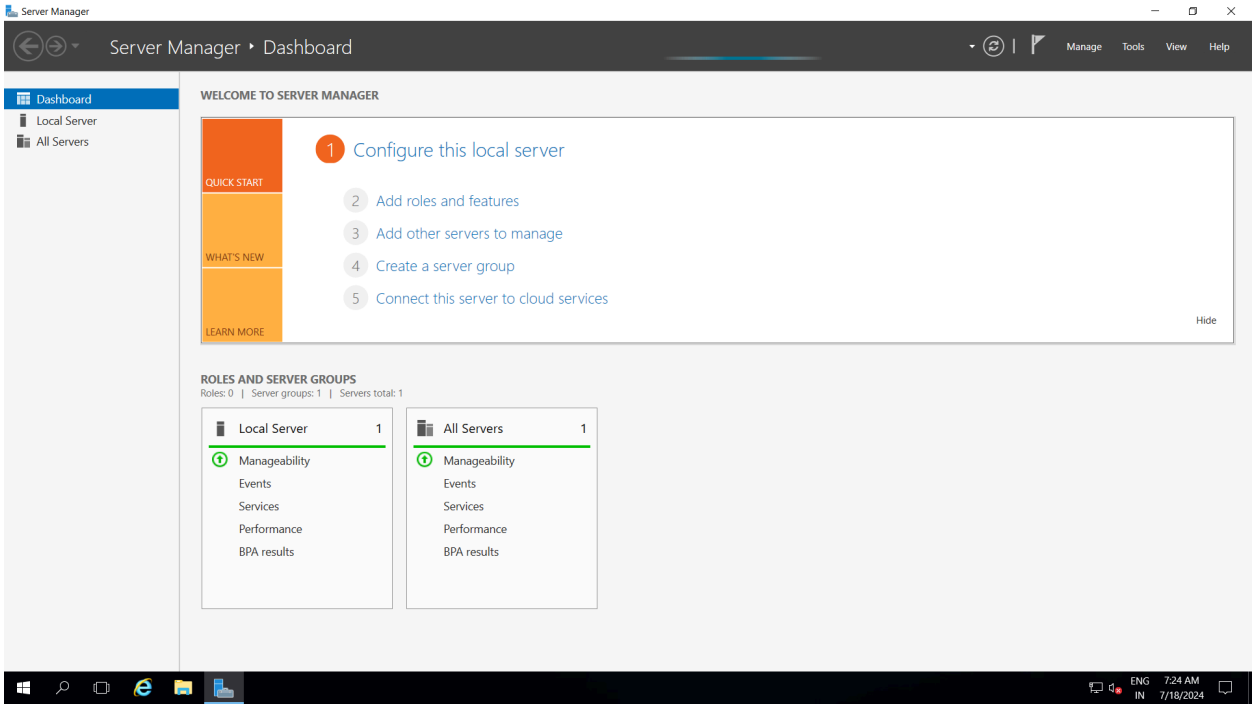
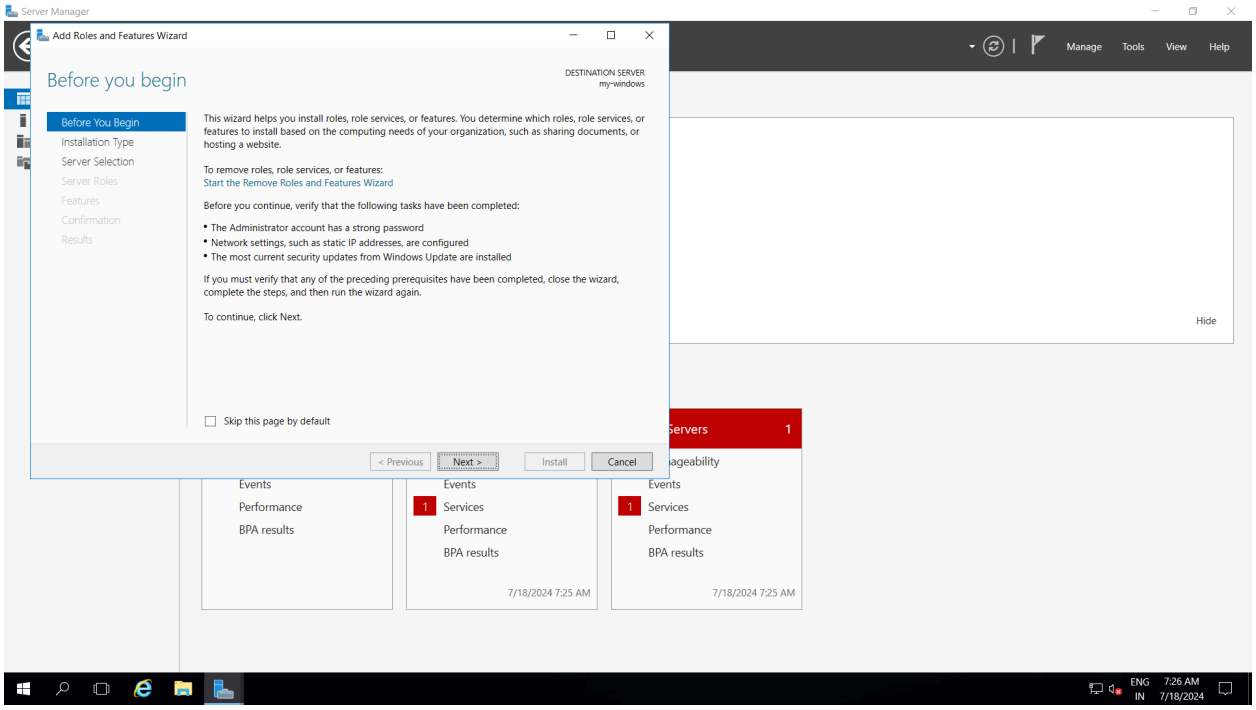
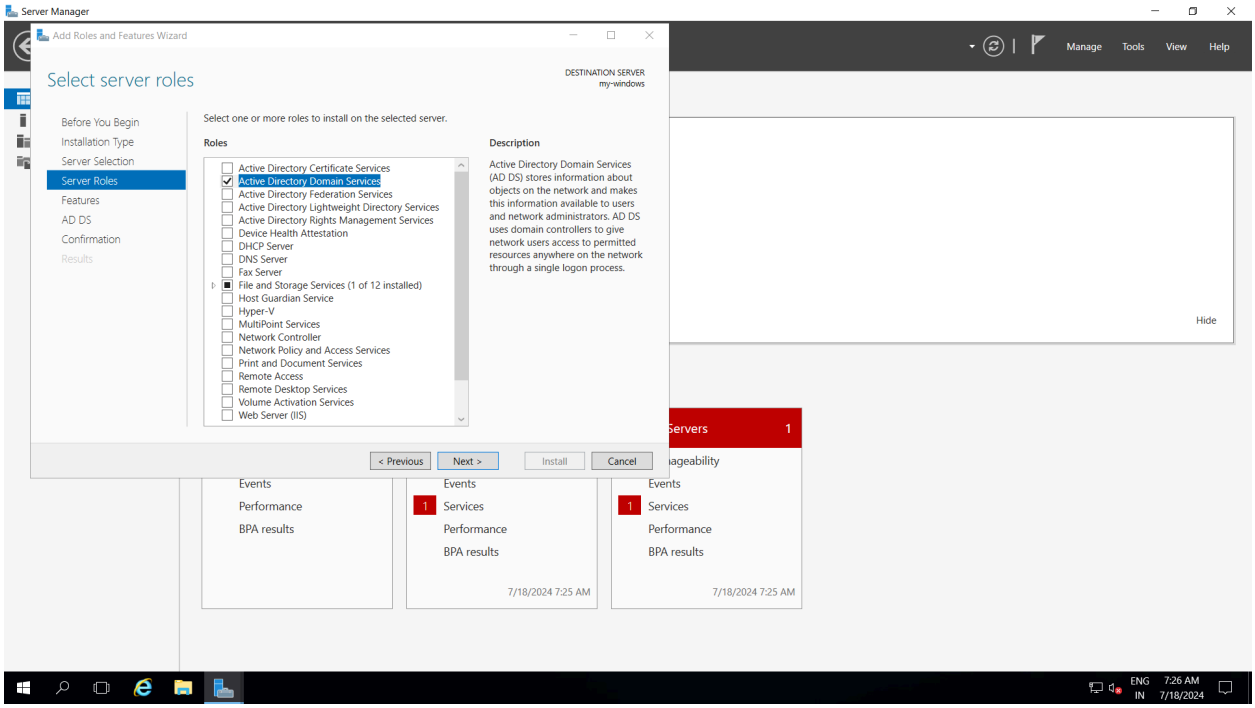
DEFAULT DIRECTORY (SUBHAMB...
Home >
Create a virtual machine
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity 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 *
vnet
Create new
Subnet *
vm-subnet (10.0.1.0/24)
Manage subnet configuration
Public IP
(new) my-windows-ip
Create new
NIC network security group
None
Basic
< Previous
Next : Management >
Review + create
Give feedback


Server Manager
Server Manager ▸ Dashboard
Manage
Tools
View
Help
Dashboard
Local Server
All Servers
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
5 Connect this server to cloud services
Hide
ROLES AND SERVER GROUPS
Roles: 0 | Server groups: 1 | Servers total: 1
Local Server 1
Manageability
Events
Services
Performance
BPA results
All Servers 1
Manageability
Events
Services
Performance
BPA results
ENG
IN
7:24 AM
7/18/2024


Server Manager
Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
my-windows
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel
Manage
Tools
View
Help
Hide
Events
Performance
BPA results
1 Services
7/18/2024 7:25 AM
1 Services
7/18/2024 7:25 AM
ENG
IN
7:26 AM
7/18/2024


Server Manager
Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
my-windows
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Active Directory Certificate Services
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Device Health Attestation
DHCP Server
DNS Server
Fax Server
File and Storage Services (1 of 12 installed)
Host Guardian Service
Hyper-V
MultiPoint Services
Network Controller
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Volume Activation Services
Web Server (IIS)
Description
Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.
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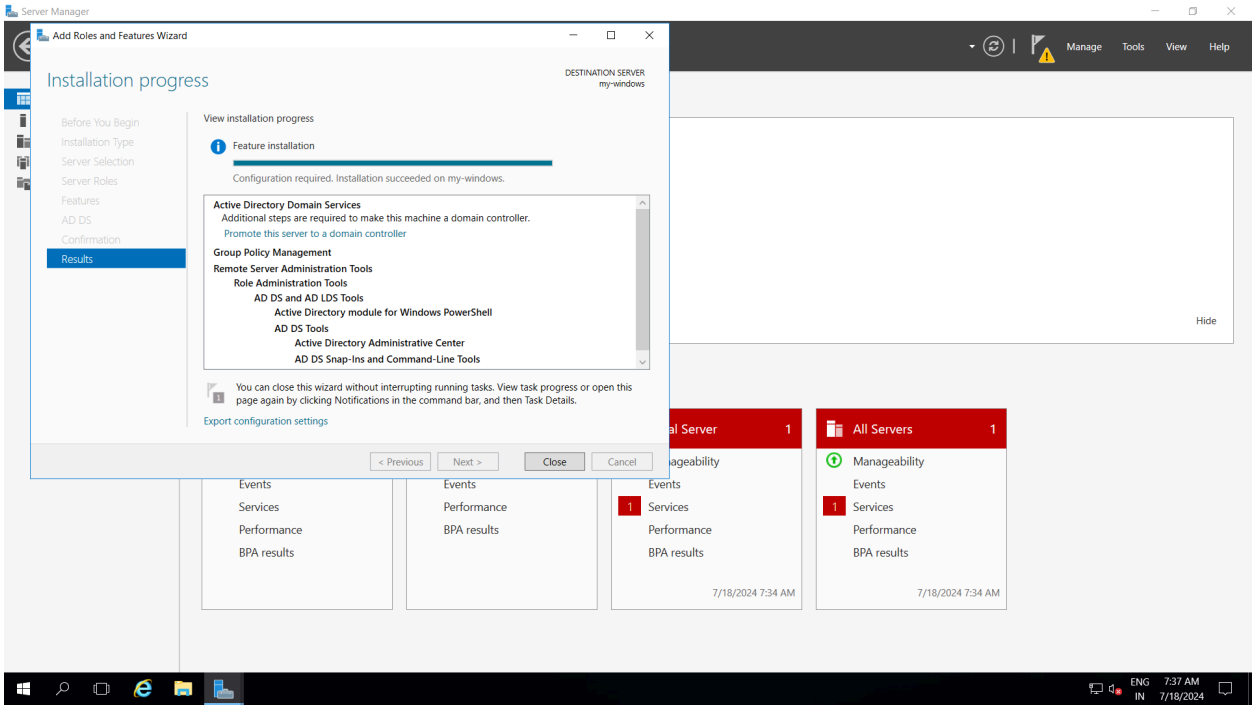
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Add Roles and Features Wizard
Installation progress
DESTINATION SERVER
my-windows
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
Confirmation
Results
View installation progress
Feature installation
Configuration required. Installation succeeded on my-windows.
Active Directory Domain Services
Additional steps are required to make this machine a domain controller.
Promote this server to a domain controller
Group Policy Management
Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS Tools
Active Directory module for Windows PowerShell
AD DS Tools
Active Directory Administrative Center
AD DS Snap-Ins and Command-Line Tools
You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.
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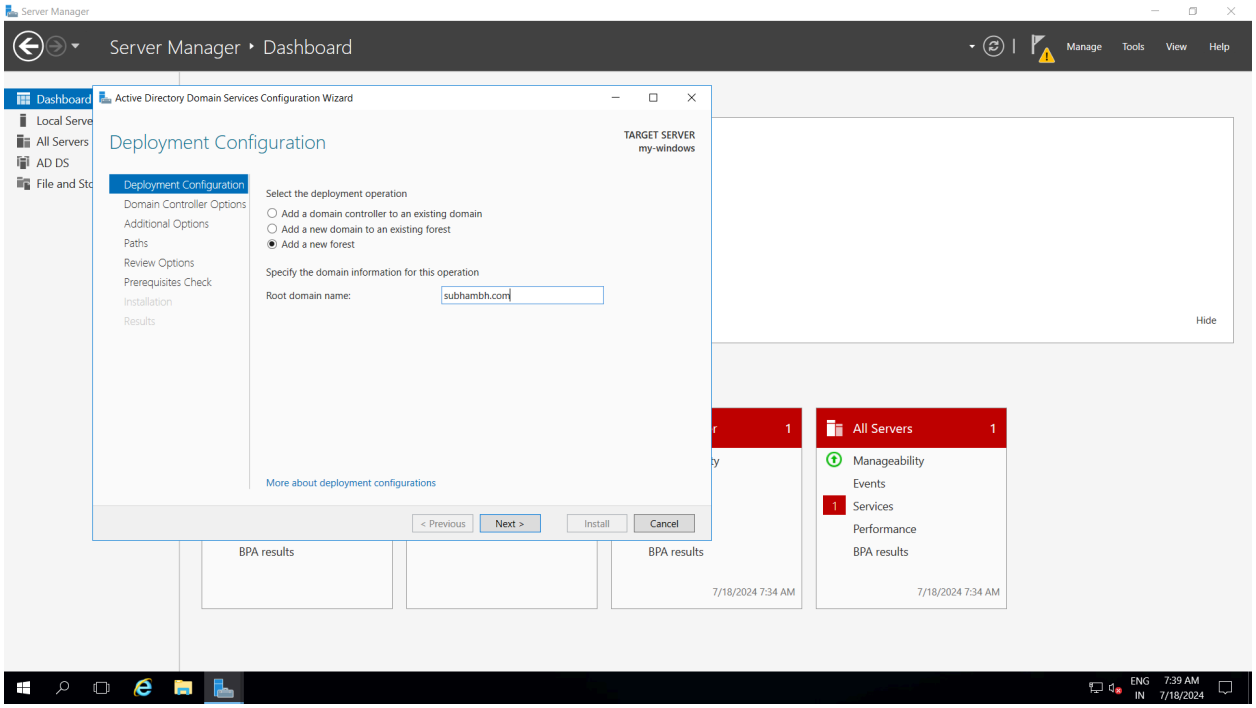
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Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
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Domain Controller Options
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Paths
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Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Root domain name:
subhambh.com
More about deployment configurations
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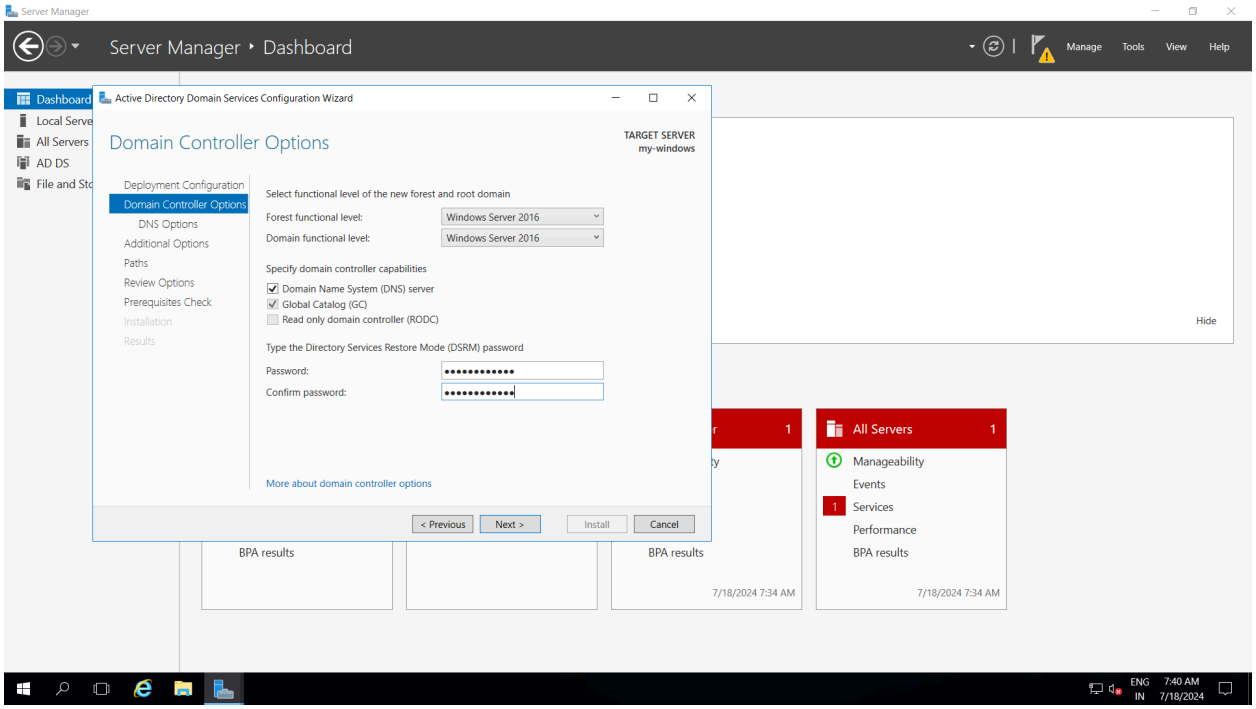
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Select functional level of the new forest and root domain
Forest functional level:
Windows Server 2016
Domain functional level:
Windows Server 2016
Specify domain controller capabilities
Domain Name System (DNS) server
Global Catalog (GC)
Read only domain controller (RODC)
Type the Directory Services Restore Mode (DSRM) password
Password:
Confirm password:
More about domain controller options
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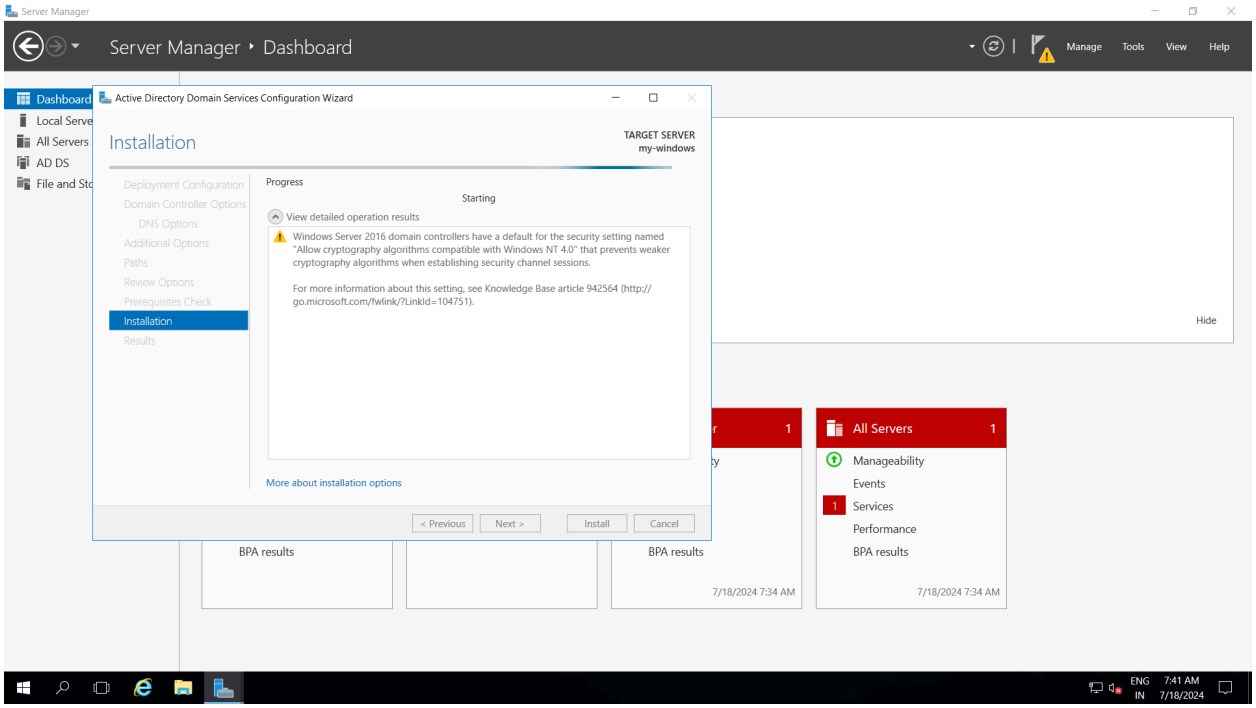
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View detailed operation results
Windows Server 2016 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.
For more information about this setting, see Knowledge Base article 942564 (http://go.microsoft.com/fwlink/?LinkId=104751).
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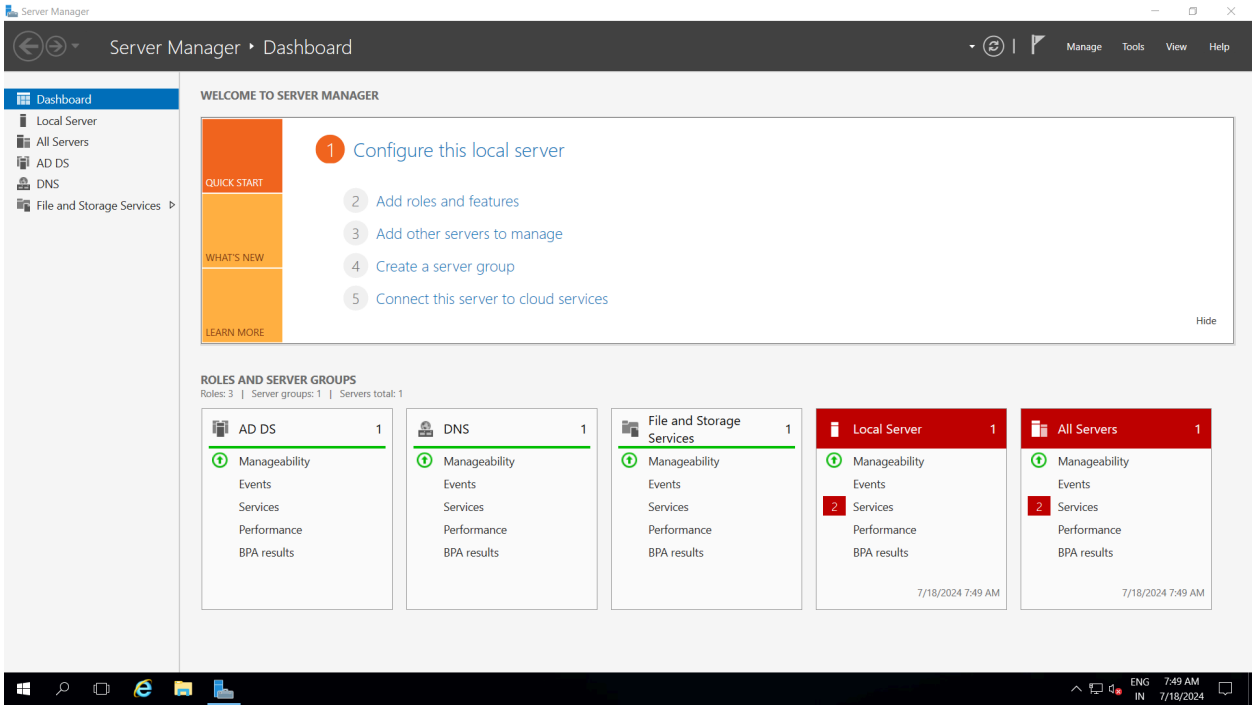
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1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
5 Connect this server to cloud services
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ROLES AND SERVER GROUPS
Roles: 3 | Server groups: 1 | Servers total: 1
AD DS 1
DNS 1
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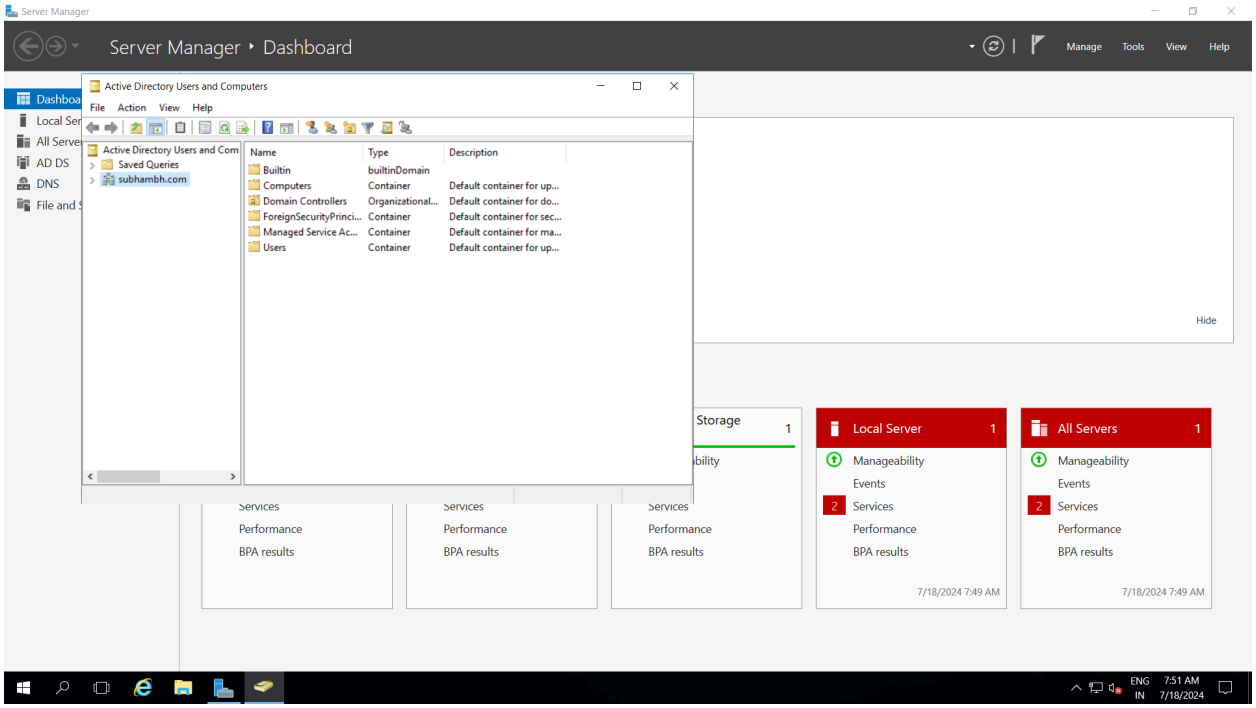
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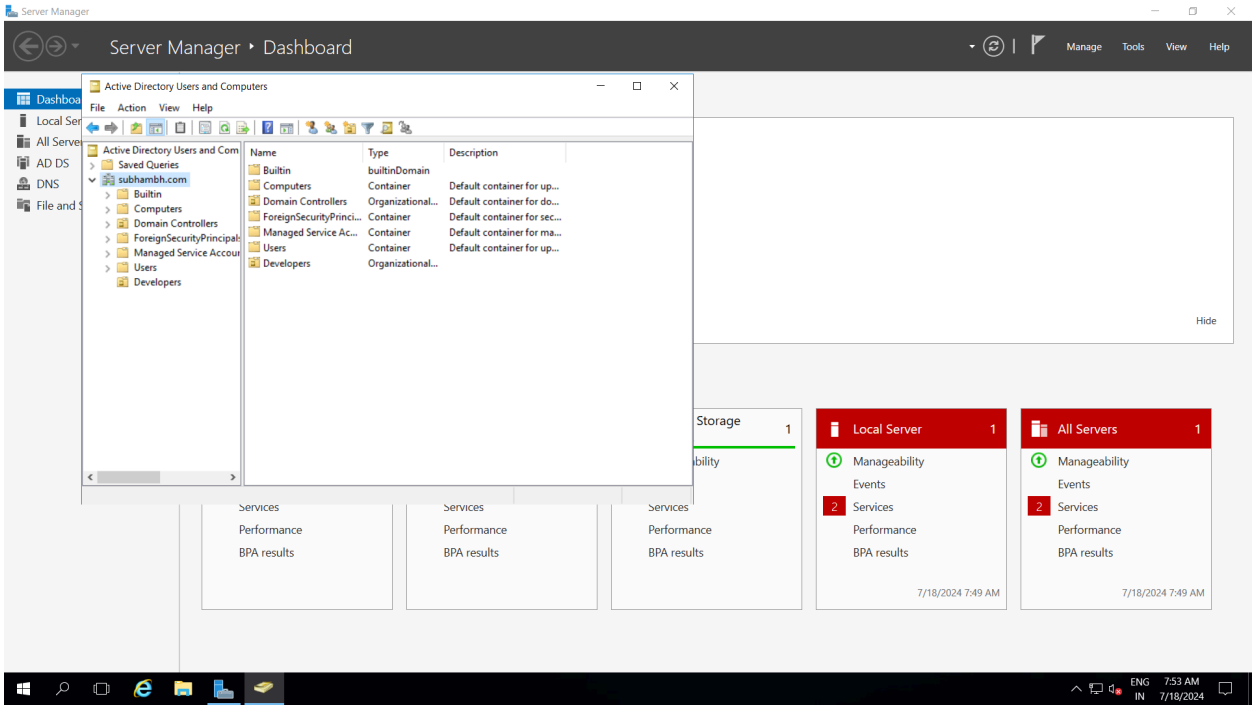
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