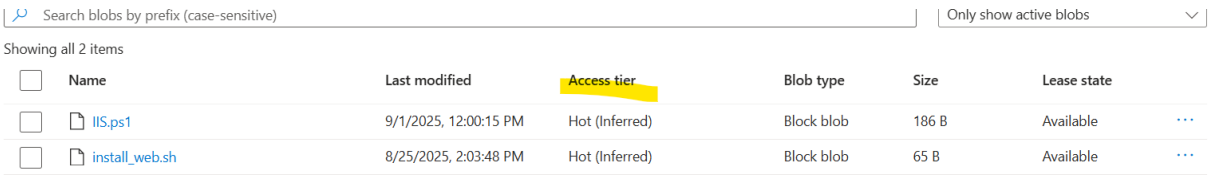
Storage account access tier

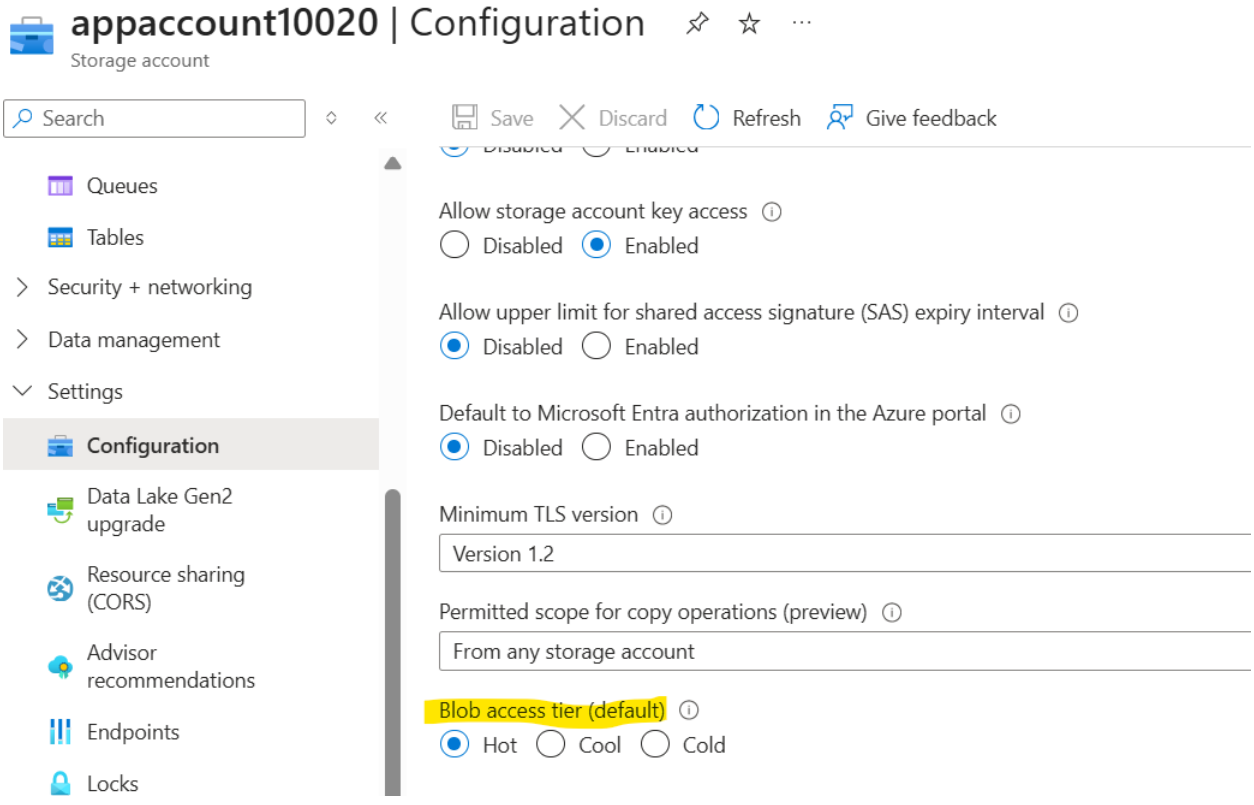
Hot – this is default tier for object , here this is optimized for objects that are accessed frequently

Cool – that are frequently accessed an object can be set as cool access tier here objects needs to be stored for minimum 30 days

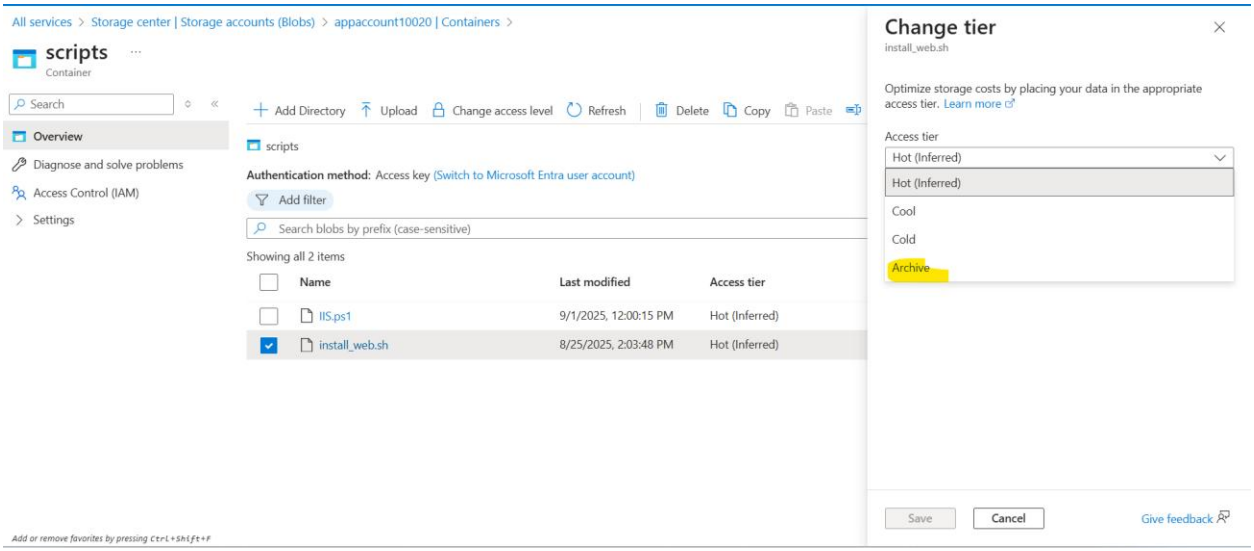
Cold – this is ideal for object that are ready accessed or modifued but you still need access to them. An object can be set the cool access tier. Objects stored minimum 90 days

Archive – this is ideal for object that are ready accessed and if you need to access them, you don't mind waiting for the data to be restored first. Here data needs to be stored for minimum of 180 days

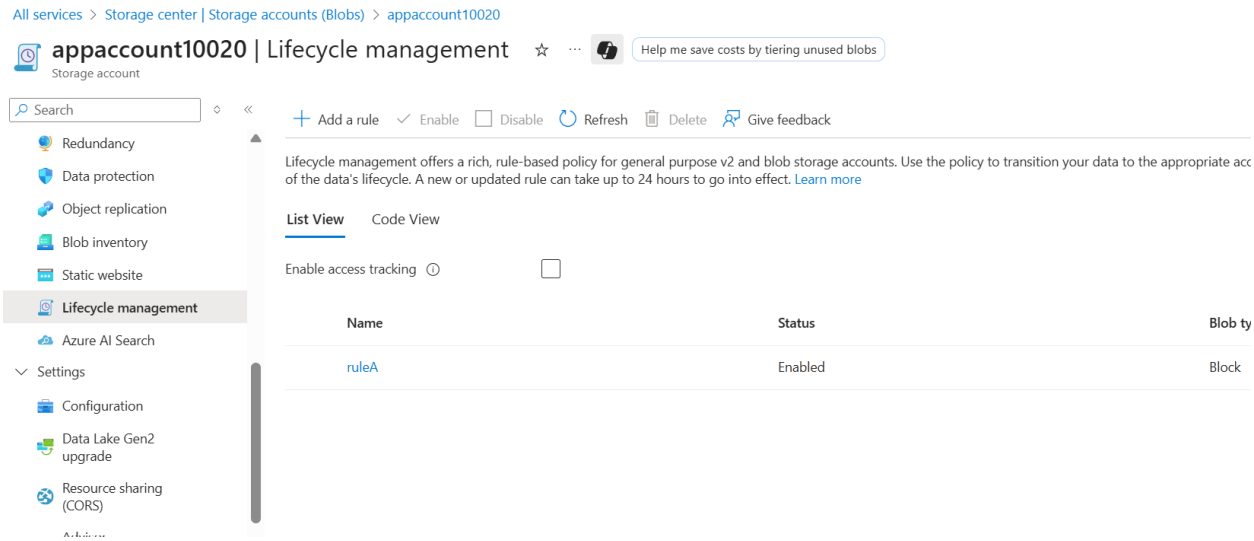


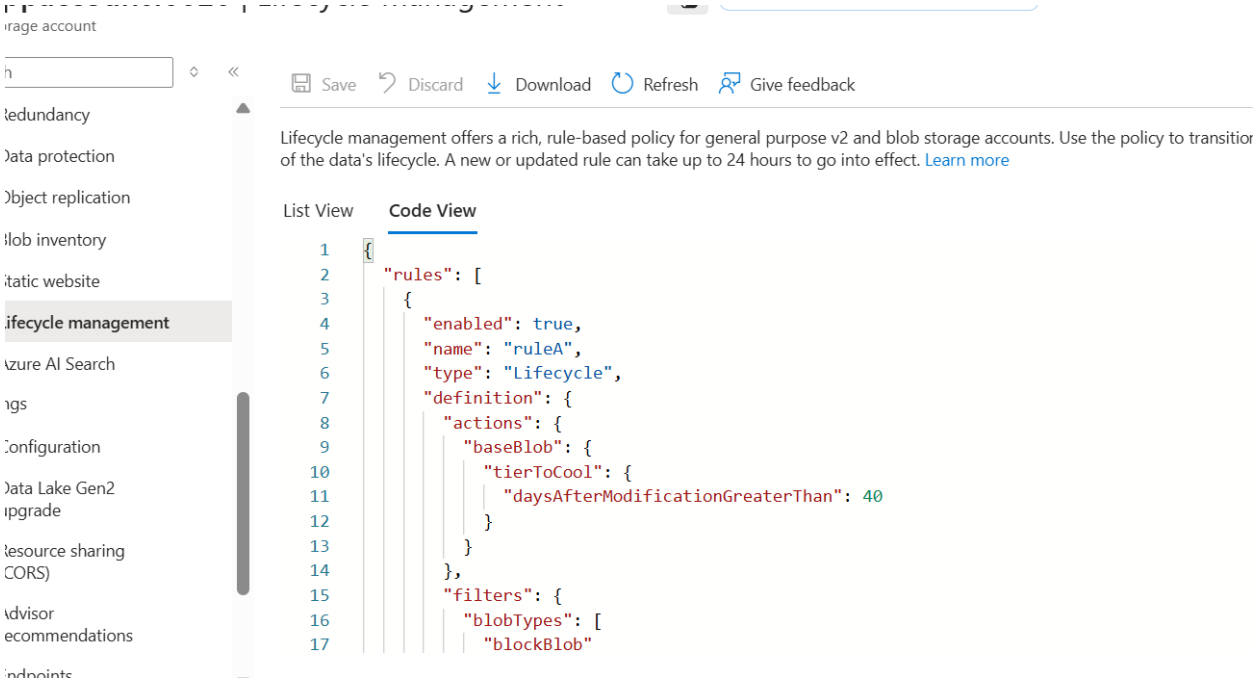


Archive access

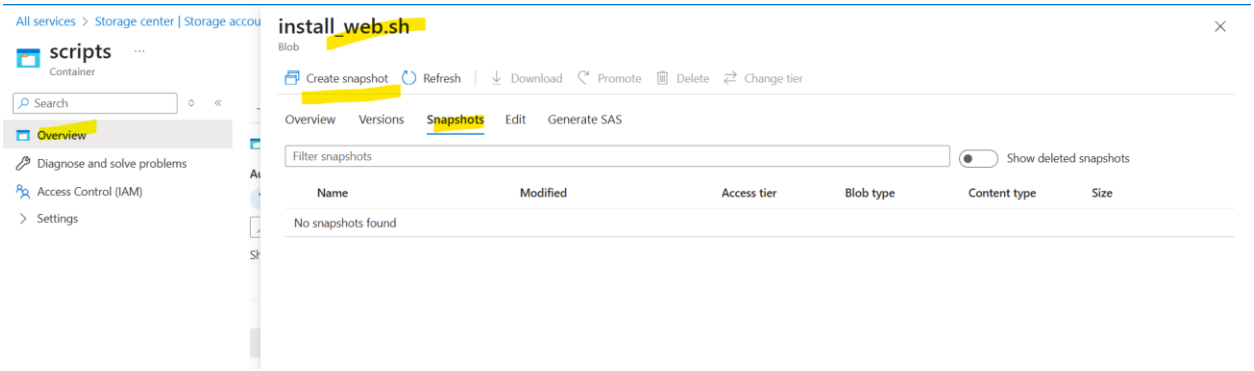


Azure Storage Accounts - Lifecycle policies

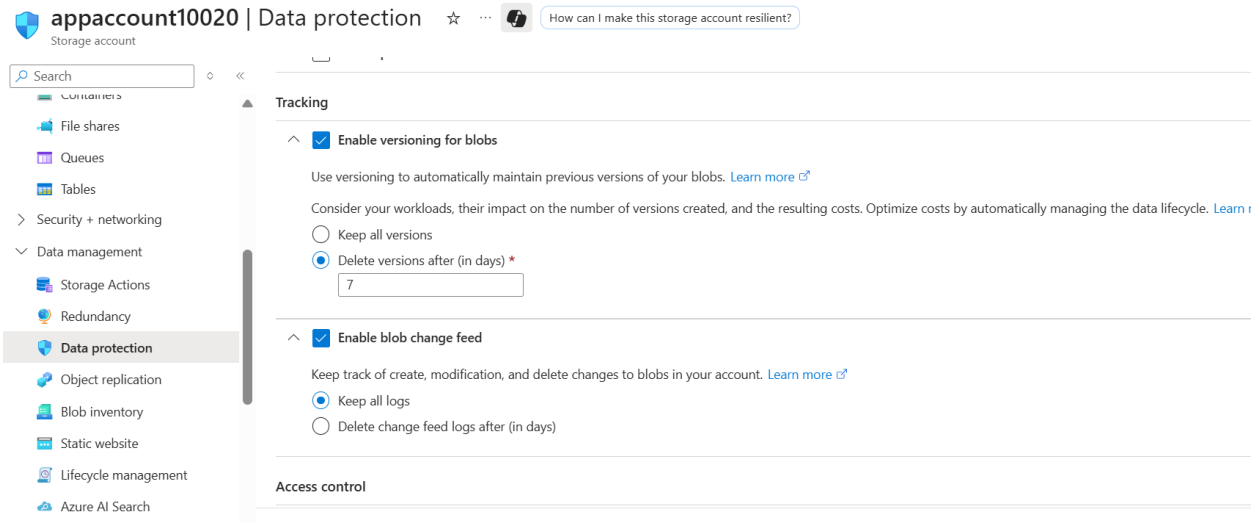


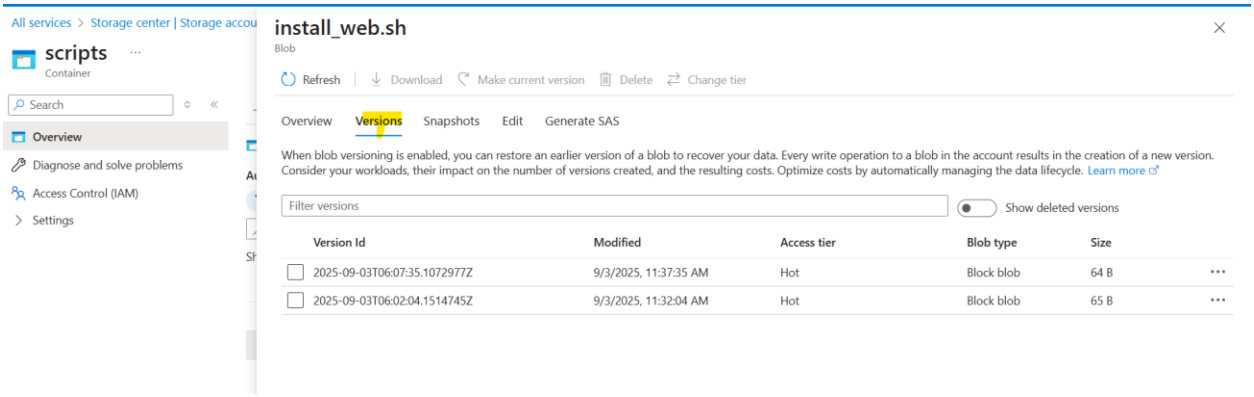


Azure Storage Accounts - Blob Snapshots



Azure Storage Accounts - Blob Versioning

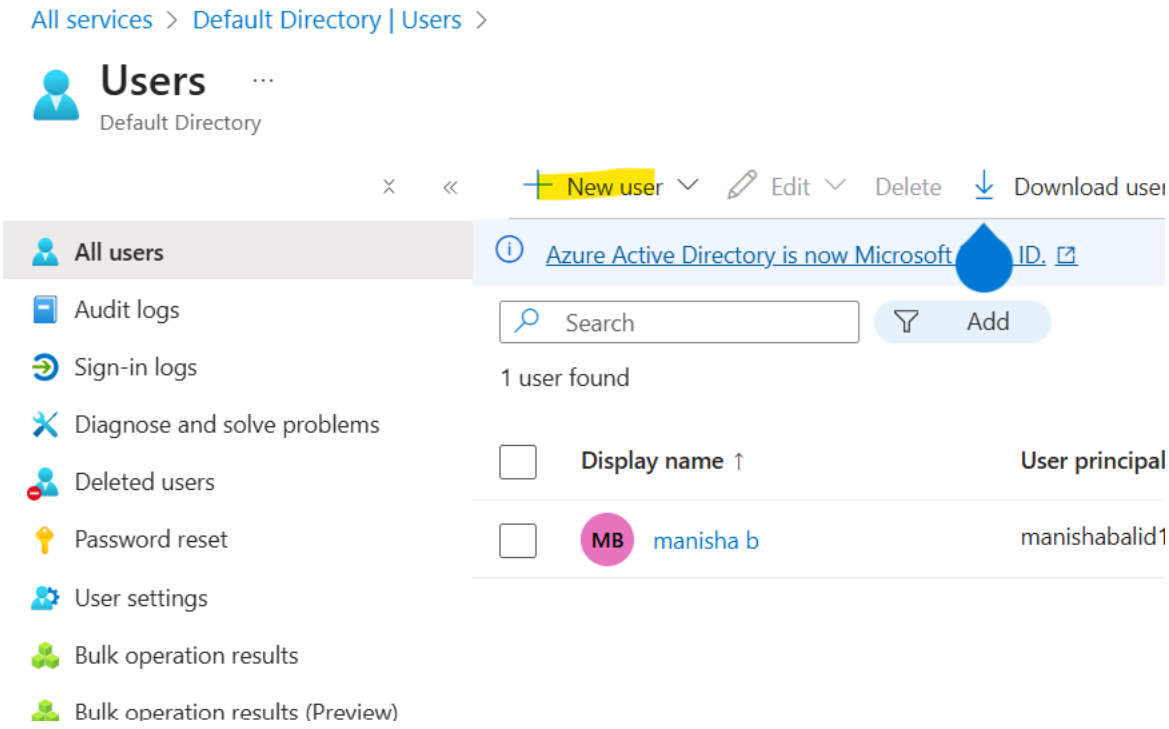




Microsoft Entra ID

This is cloud based identity and access management service. This identity service can be used for azure , Microsoft 365and even other software as a service applications

creating a user in Microsoft Entra ID



Create new user

Create a new internal user in your organization

Basics | Properties | Assignments | **Review + create**

Basics

User principal name	UserA@manishabalid179gmail.onmicrosoft.com
Display name	UserA
Mail nickname	UserA
Password	••••••••••
Account enabled	Yes

Properties

User type	Member

Assignments

Administrative units

Create | < Previous | Next >

Users

Default Directory

New user | Edit | Delete | Download users (Preview) | Bulk operations | Refresh

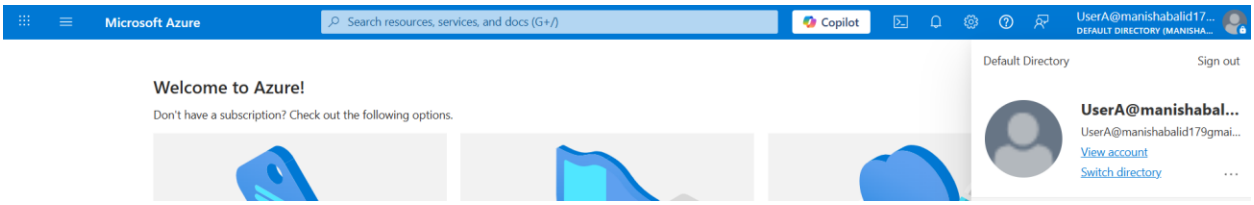
- All users
- Audit logs
- Sign-in logs
- Diagnose and solve problems
- Deleted users
- Password reset
- User settings
- Bulk operation results
- Bulk operation results (Preview)
- New support request

Azure Active Directory is now Microsoft Entr

Search | Add

2 users found

Display name ↑	User principal name ↑↓	User type	On-premises sy...
MB manisha b	manishabalid179_...	Member	No
U UserA	UserA@manishab...	Member	No


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
UserA@manishabalid17...
DEFAULT DIRECTORY (MANISHA...
Default Directory
Sign out
UserA@manishabal...
UserA@manishabalid179gmai...
View account
Switch directory
Welcome to Azure!
Don't have a subscription? Check out the following options.

Role based access control

You can assign role subscription level, resource group level and resource level

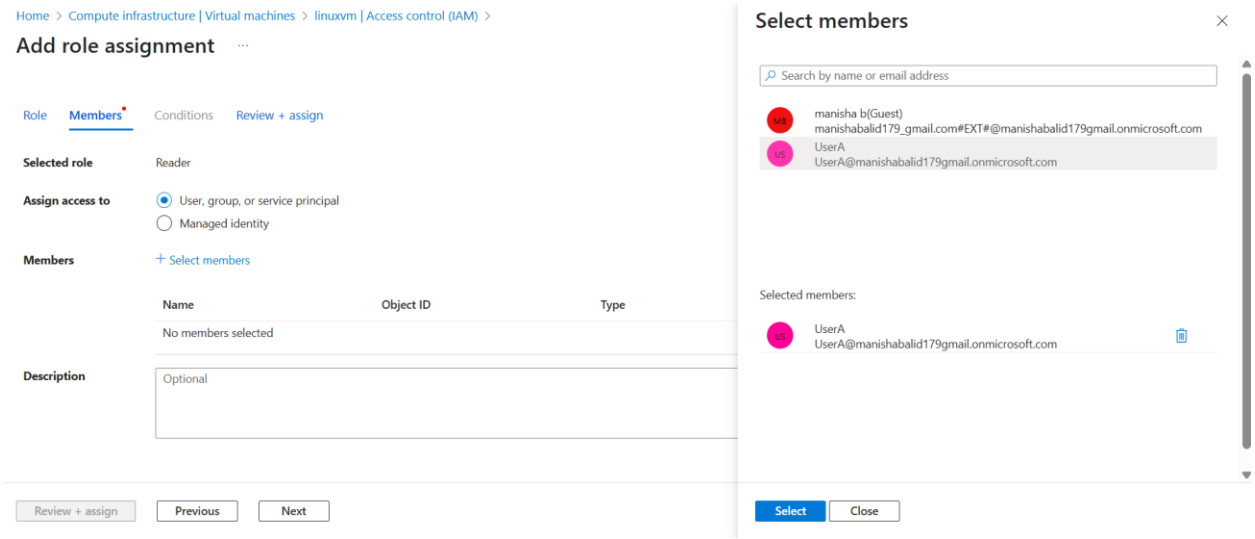
Owner role – user would complete access and be able to manage resources. The user also delegate access to other users.

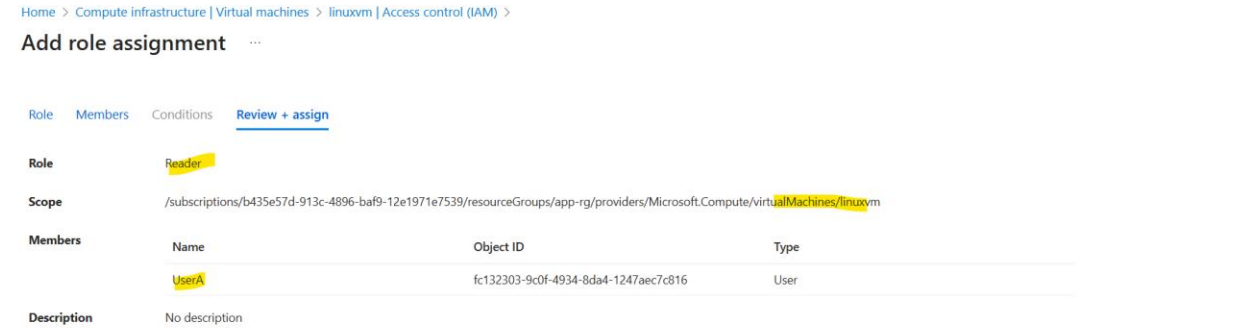
Contributor role – here user would have complete access an be able to manage the resource

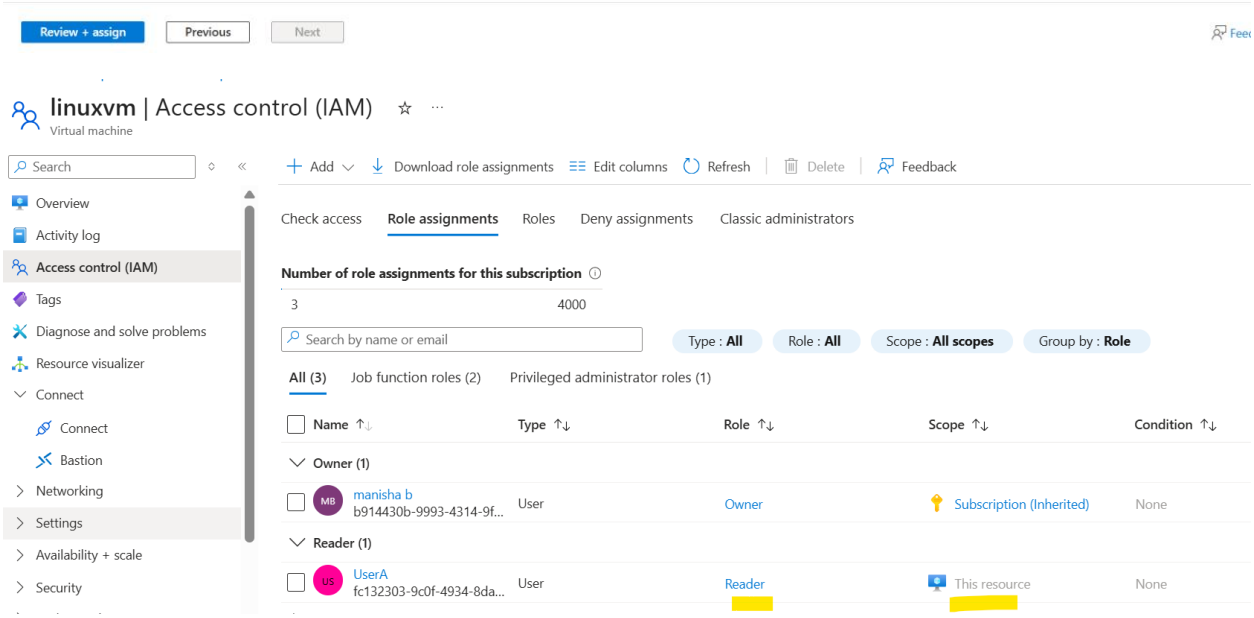
User access administrator role – here user would be able to deletegate access to other users/

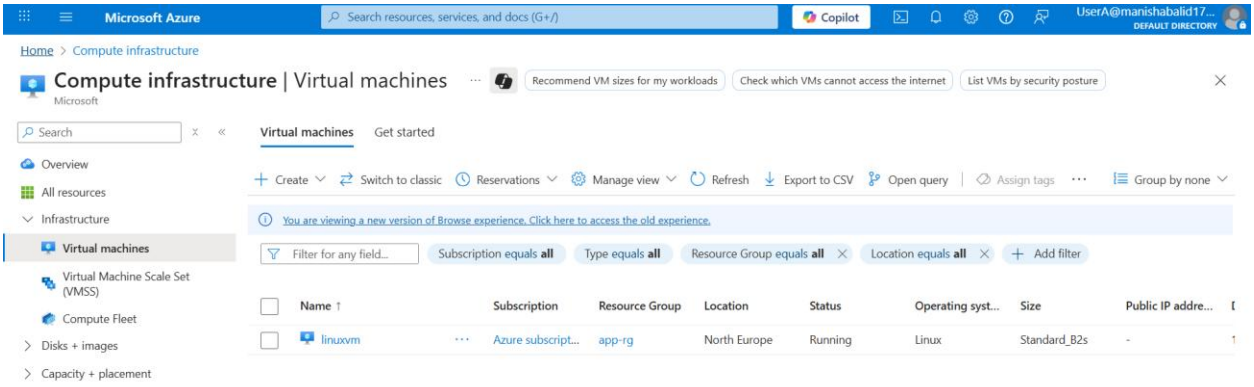
Reader role – the user would be just be able to read the properties for the resources

role-based assignments - Resource level

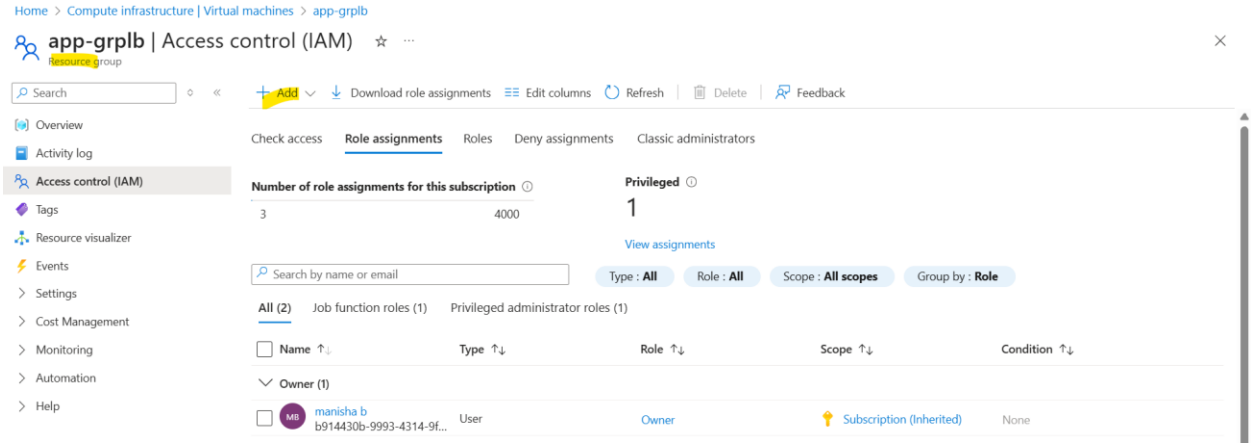


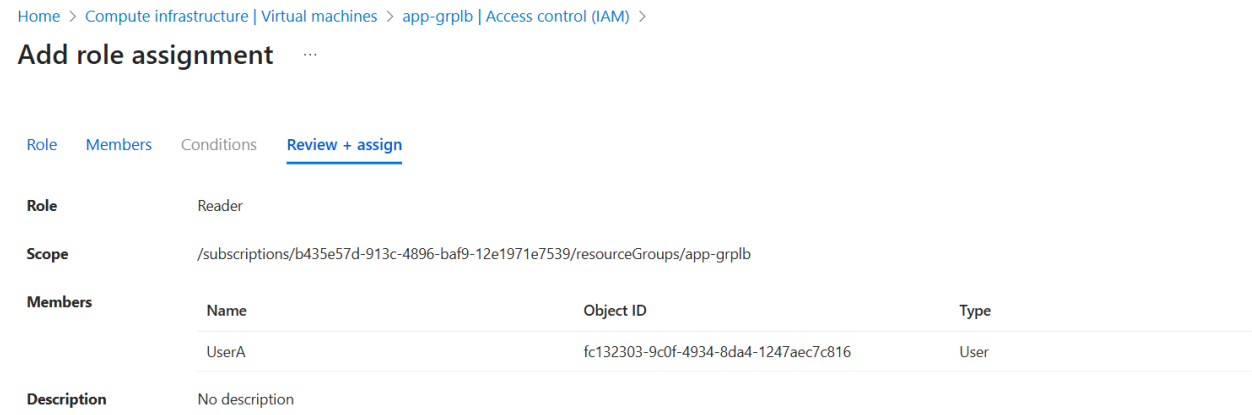

Home > Compute infrastructure | Virtual machines > linuxvm | Access control (IAM) >
Add role assignment
Role Members Conditions Review + assign
Role Reader
Scope /subscriptions/b435e57d-913c-4896-baf9-12e1971e7539/resourceGroups/app-rg/providers/Microsoft.Compute/virtualMachines/linuxvm
Members
Name Object ID Type
UserA fc132303-9c0f-4934-8da4-1247aec7c816 User
Description No description

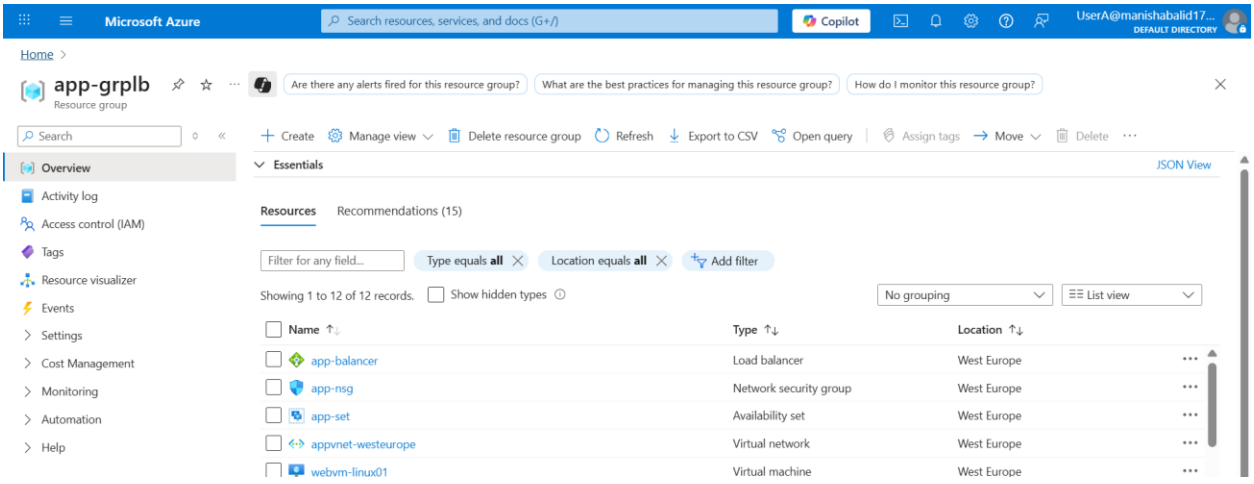

Review + assign
Previous
Next
linuxvm | Access control (IAM)
Virtual machine
Search
Add
Download role assignments
Edit columns
Refresh
Delete
Feedback
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Connect
Connect
Bastion
Networking
Settings
Availability + scale
Security
Check access
Role assignments
Roles
Deny assignments
Classic administrators
Number of role assignments for this subscription
3
4000
Search by name or email
Type : All
Role : All
Scope : All scopes
Group by : Role
All (3)
Job function roles (2)
Privileged administrator roles (1)
Name
Type
Role
Scope
Condition
Owner (1)
manisha b
b914430b-9993-4314-9f...
User
Owner
Subscription (Inherited)
None
Reader (1)
UserA
fc132303-9c0f-4934-8da...
User
Reader
This resource
None


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
UserA@manishabalid17...
DEFAULT DIRECTORY
Home > Compute infrastructure
Compute infrastructure | Virtual machines
Microsoft
Recommend VM sizes for my workloads
Check which VMs cannot access the internet
List VMs by security posture
Search
Overview
All resources
Infrastructure
Virtual machines
Virtual Machine Scale Set (VMSS)
Compute Fleet
Disks + images
Capacity + placement
Virtual machines
Get started
Create
Switch to classic
Reservations
Manage view
Refresh
Export to CSV
Open query
Assign tags
Group by none
You are viewing a new version of Browse experience. Click here to access the old experience.
Filter for any field...
Subscription equals all
Type equals all
Resource Group equals all
Location equals all
Add filter
Name
Subscription
Resource Group
Location
Status
Operating syst...
Size
Public IP addre...
linuxvm
Azure subscript...
app-rg
North Europe
Running
Linux
Standard_B2s
-

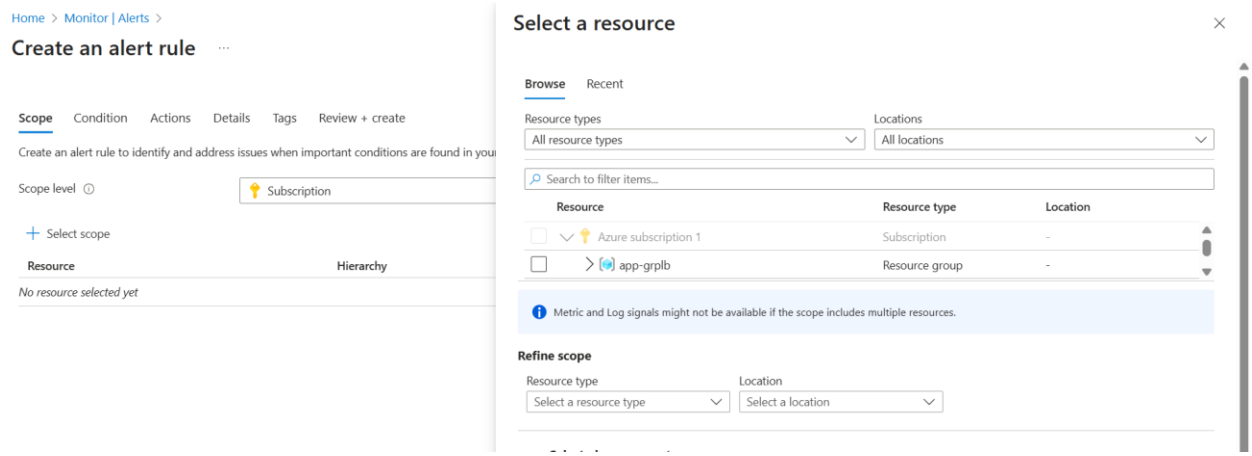
Role-based assignments - Resource group level

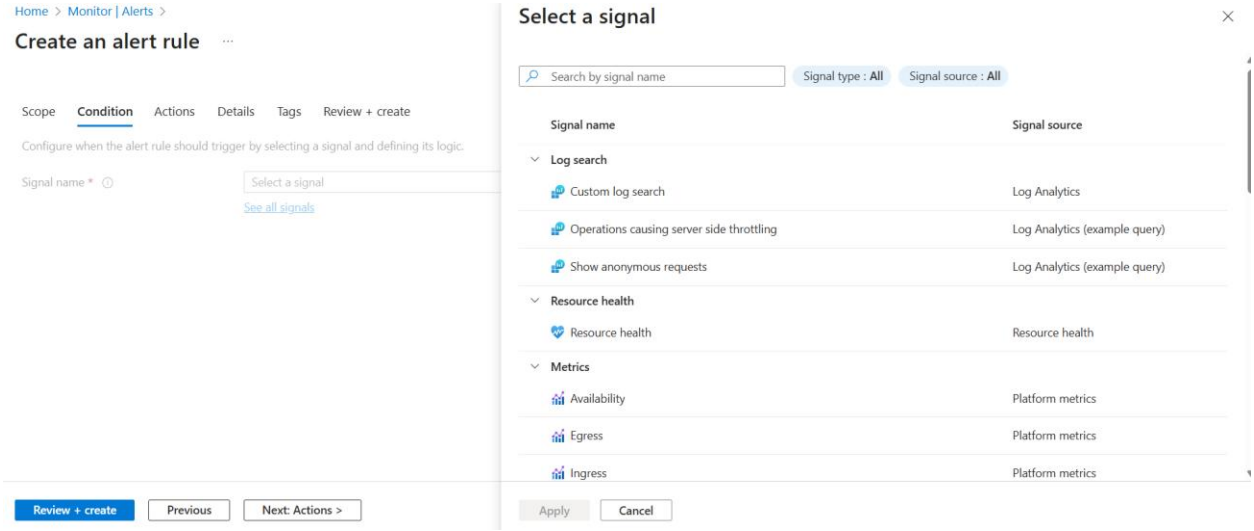






Azure monitor





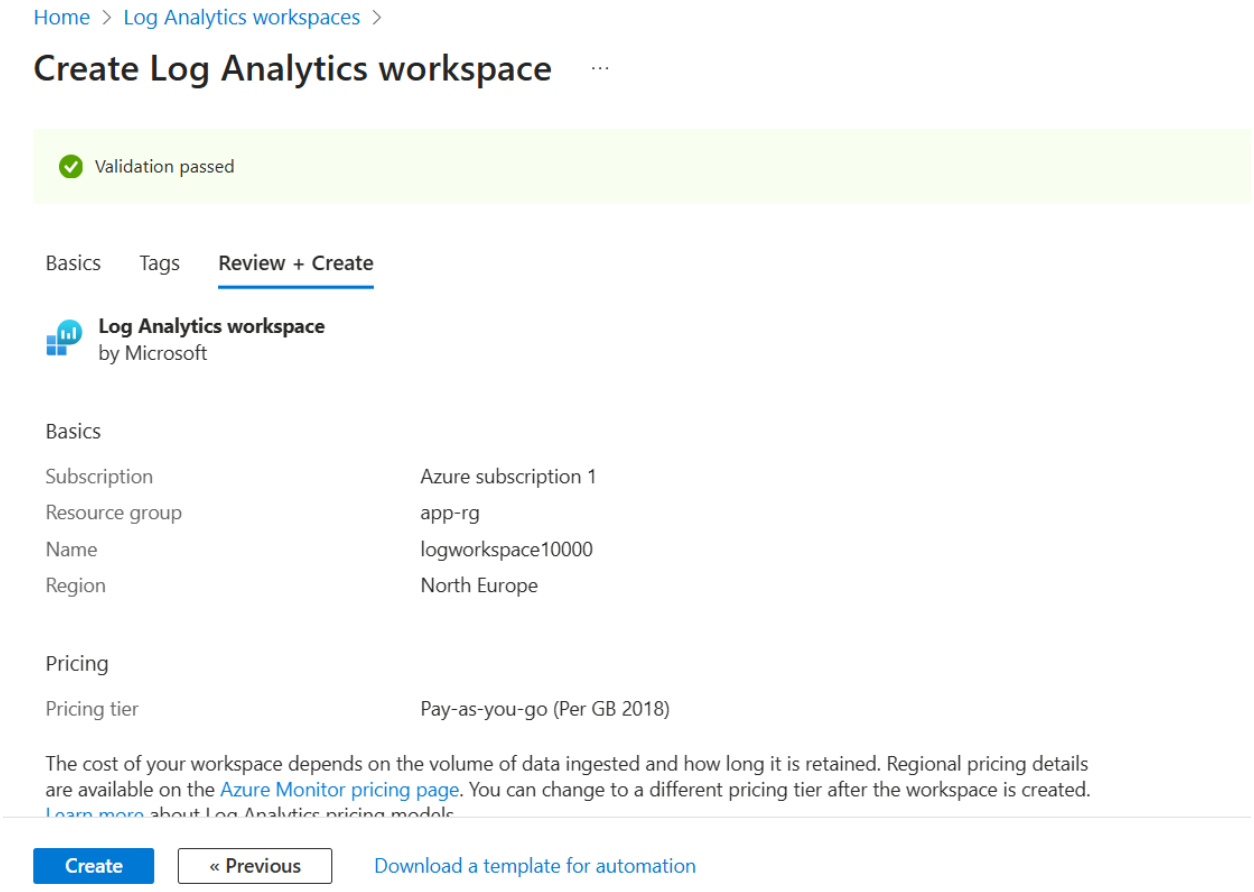
Log Analytics Workspace

Used to collect log data

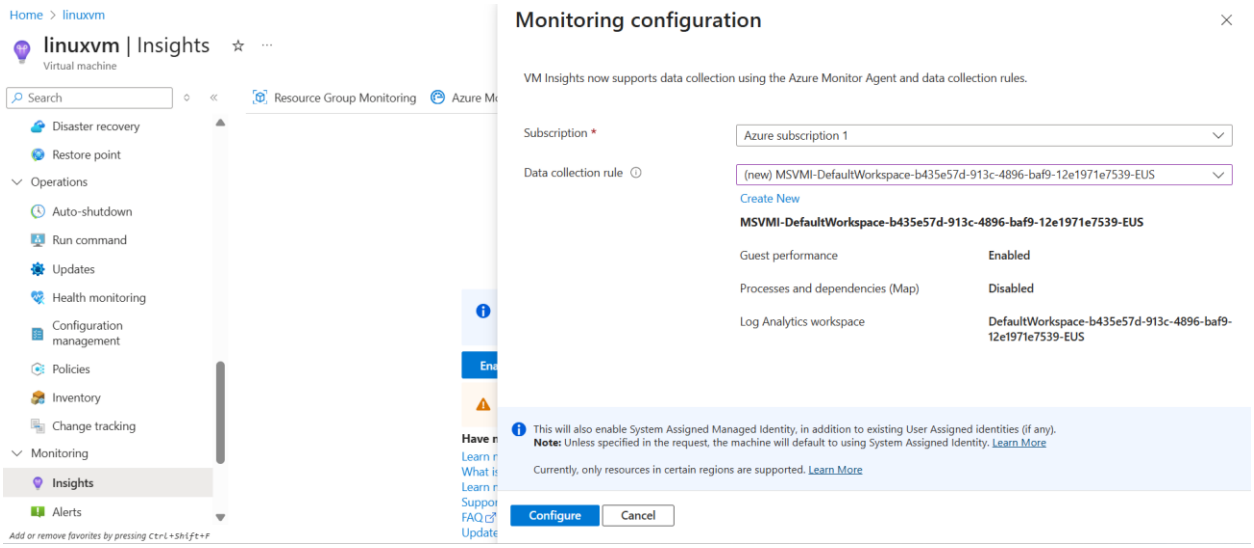
Events occurring on machin

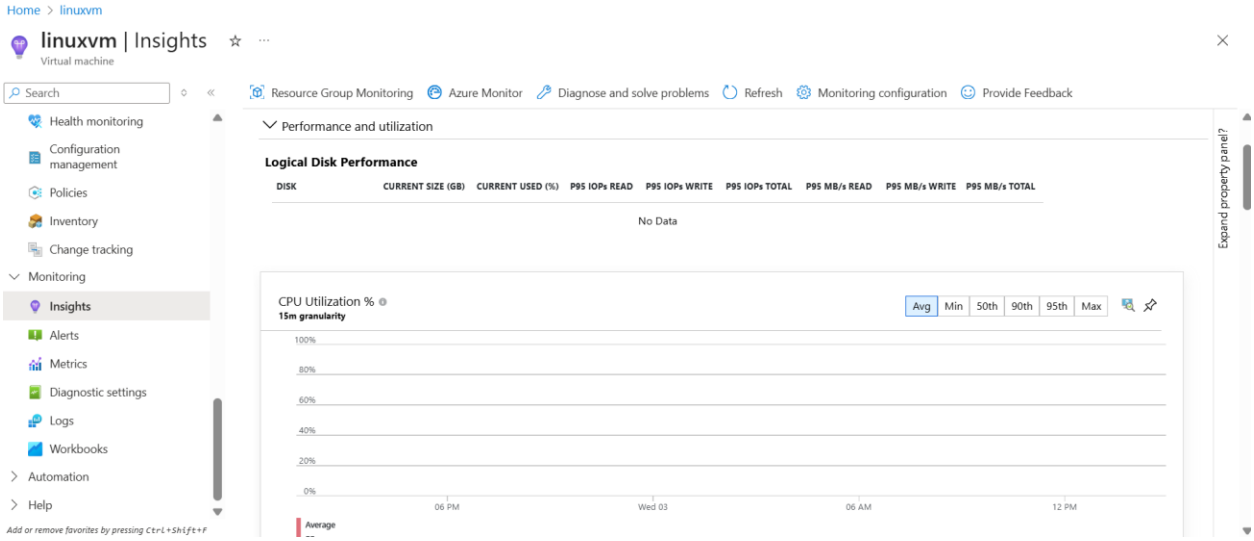
Enable diagnostics settings to send metrics and log data

Data collected sent to log analytics workspace

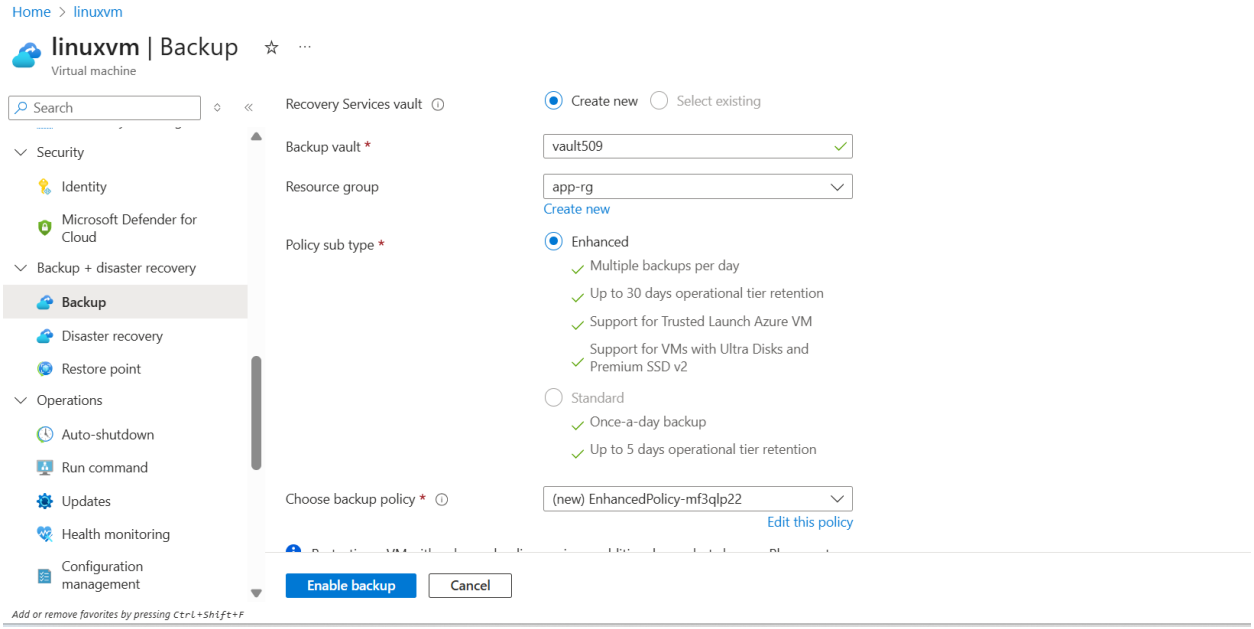


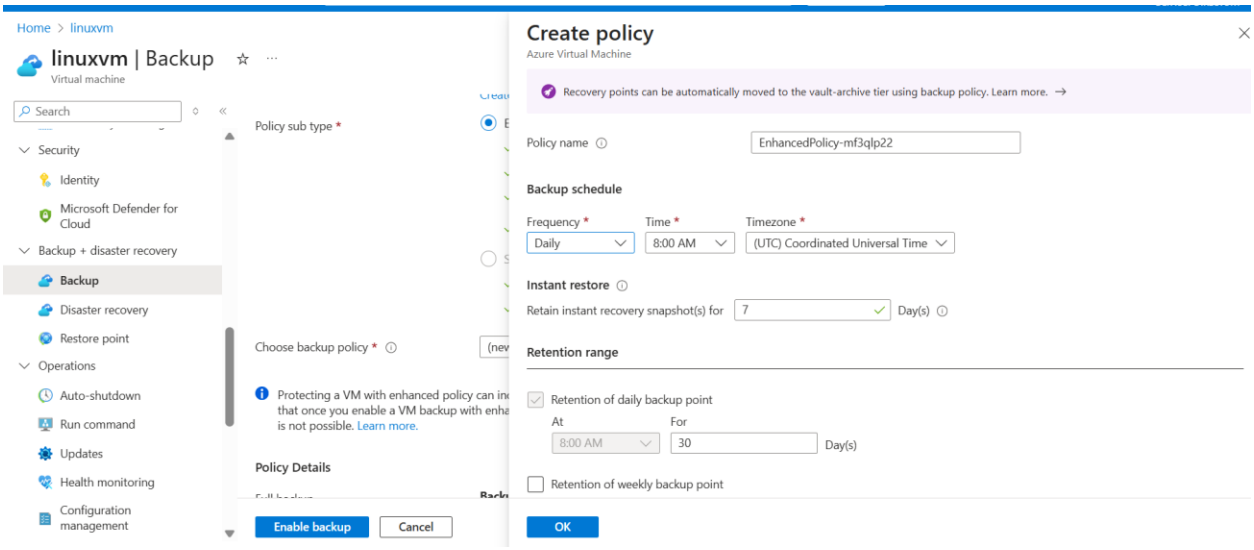
Azure VM Insights

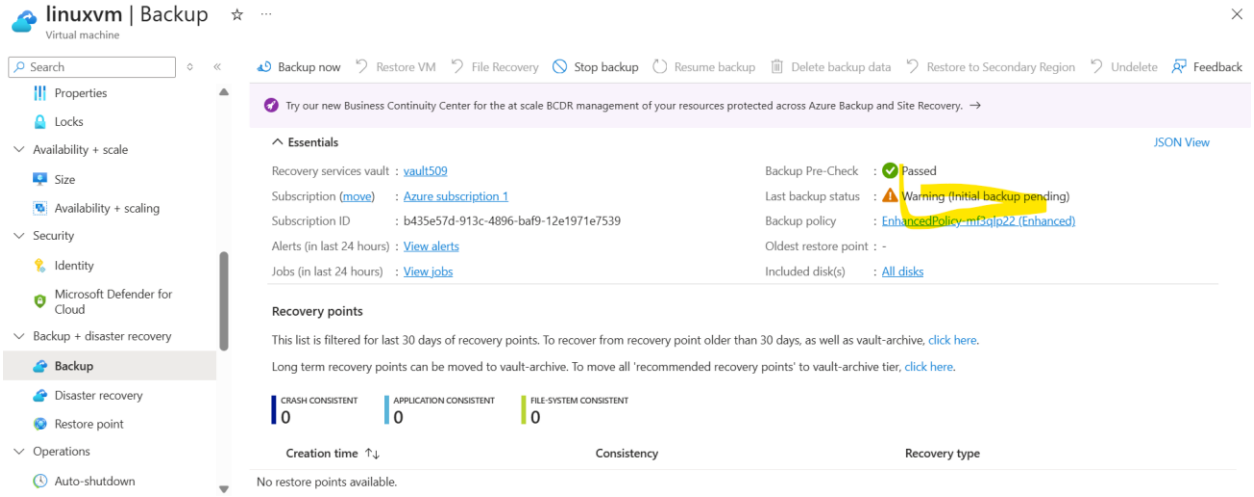


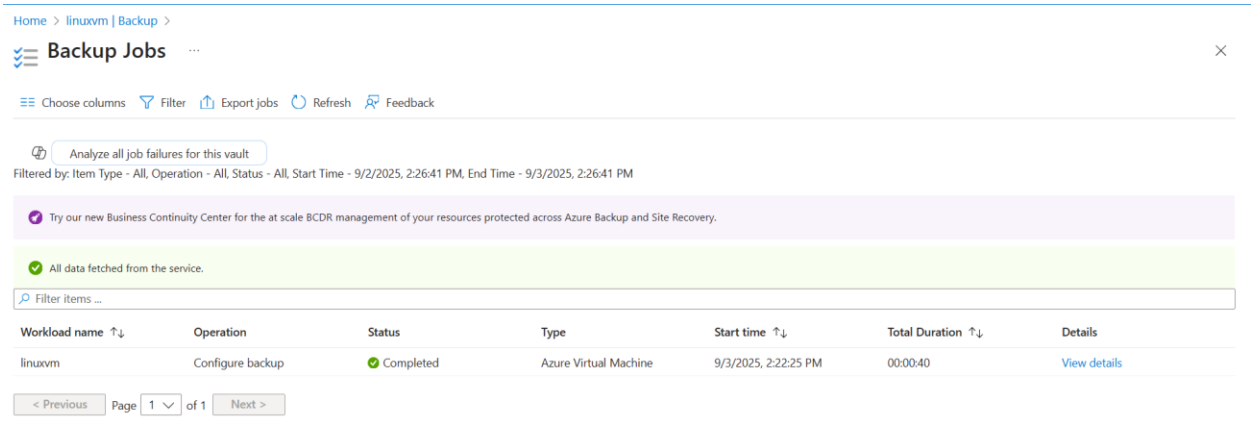


VM backup


Home > linuxvm
linuxvm | Backup
Virtual machine
Search
Security
Identity
Microsoft Defender for Cloud
Backup + disaster recovery
Backup
Disaster recovery
Restore point
Operations
Auto-shutdown
Run command
Updates
Health monitoring
Configuration management
Add or remove favorites by pressing Ctrl+Shift+F
Recovery Services vault
Create new
Select existing
Backup vault *
vault509
Resource group
app-rg
Create new
Policy sub type *
Enhanced
Multiple backups per day
Up to 30 days operational tier retention
Support for Trusted Launch Azure VM
Support for VMs with Ultra Disks and Premium SSD v2
Standard
Once-a-day backup
Up to 5 days operational tier retention
Choose backup policy *
(new) EnhancedPolicy-mf3qlp22
Edit this policy
Enable backup
Cancel


Home > linuxvm
linuxvm | Backup
Virtual machine
Search
Security
Identity
Microsoft Defender for Cloud
Backup + disaster recovery
Backup
Disaster recovery
Restore point
Operations
Auto-shutdown
Run command
Updates
Health monitoring
Configuration management
Policy sub type *
Choose backup policy *
Protecting a VM with enhanced policy can in
that once you enable a VM backup with enha
is not possible. Learn more.
Policy Details
Enable backup
Cancel
Create policy
Azure Virtual Machine
Recovery points can be automatically moved to the vault-archive tier using backup policy. Learn more.
Policy name
EnhancedPolicy-mf3qlp22
Backup schedule
Frequency *
Daily
Time *
8:00 AM
Timezone *
(UTC) Coordinated Universal Time
Instant restore
Retain instant recovery snapshot(s) for
7
Day(s)
Retention range
Retention of daily backup point
At
8:00 AM
For
30
Day(s)
Retention of weekly backup point
OK


linuxvm | Backup
Virtual machine
Search
Properties
Locks
Availability + scale
Size
Availability + scaling
Security
Identity
Microsoft Defender for Cloud
Backup + disaster recovery
Backup
Disaster recovery
Restore point
Operations
Auto-shutdown
Backup now
Restore VM
File Recovery
Stop backup
Resume backup
Delete backup data
Restore to Secondary Region
Undelete
Feedback
Try our new Business Continuity Center for the at scale BCDR management of your resources protected across Azure Backup and Site Recovery.
Essentials
JSON View
Recovery services vault : vault509
Subscription (move) : Azure subscription 1
Subscription ID : b435e57d-913c-4896-baf9-12e1971e7539
Alerts (in last 24 hours) : View alerts
Jobs (in last 24 hours) : View jobs
Backup Pre-Check : Passed
Last backup status : Warning (Initial backup pending)
Backup policy : EnhancedPolicy-mf3qlp22 (Enhanced)
Oldest restore point : -
Included disk(s) : All disks
Recovery points
This list is filtered for last 30 days of recovery points. To recover from recovery point older than 30 days, as well as vault-archive, click here.
Long term recovery points can be moved to vault-archive. To move all 'recommended recovery points' to vault-archive tier, click here.
CRASH CONSISTENT
0
APPLICATION CONSISTENT
0
FILE-SYSTEM CONSISTENT
0
Creation time
Consistency
Recovery type
No restore points available.


Home > linuxvm | Backup >
Backup Jobs
Choose columns
Filter
Export jobs
Refresh
Feedback
Analyze all job failures for this vault
Filtered by: Item Type - All, Operation - All, Status - All, Start Time - 9/2/2025, 2:26:41 PM, End Time - 9/3/2025, 2:26:41 PM
Try our new Business Continuity Center for the at scale BCDR management of your resources protected across Azure Backup and Site Recovery.
All data fetched from the service.
Filter items ...
Workload name
Operation
Status
Type
Start time
Total Duration
Details
linuxvm
Configure backup
Completed
Azure Virtual Machine
9/3/2025, 2:22:25 PM
00:00:40
View details
< Previous
Page 1 of 1
Next >

Lab - Creating a resource group

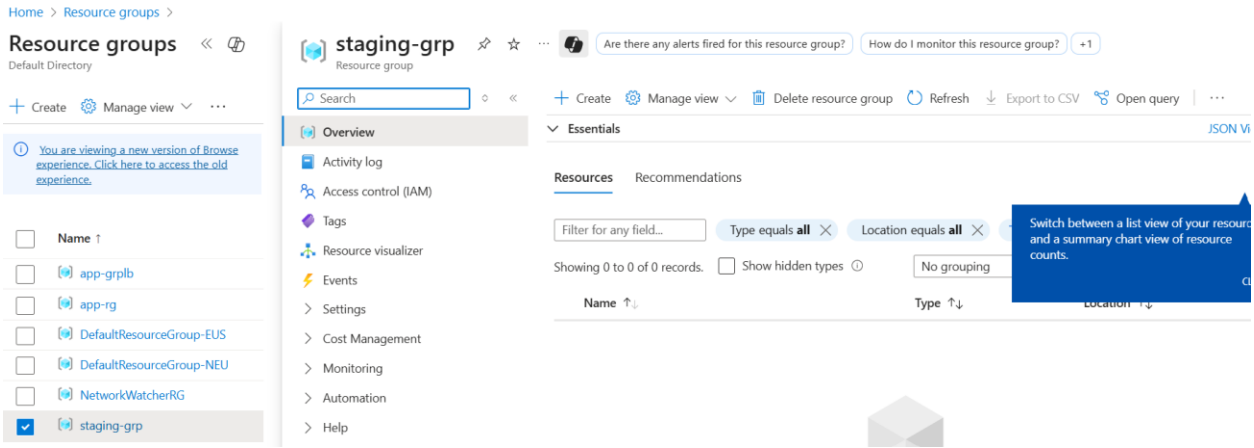
```
$resourceGroupName="staging-grp"
$location="North Europe"

New-AzResourceGroup -Name $resourceGroupName -Location $location
```

```
PS C:\WINDOWS\system32> $resourceGroupName="staging-grp"
$location="North Europe"

New-AzResourceGroup -Name $resourceGroupName -Location $location


ResourceGroupName : staging-grp
Location          : northeurope
ProvisioningState : Succeeded
Tags              :
ResourceId        : /subscriptions/b435e57d-913c-4896-baf9-12e1971e7539/resourceGroups/staging-grp
```



Lab - Creating a virtual network

$resourceGroupName="staging-grp"

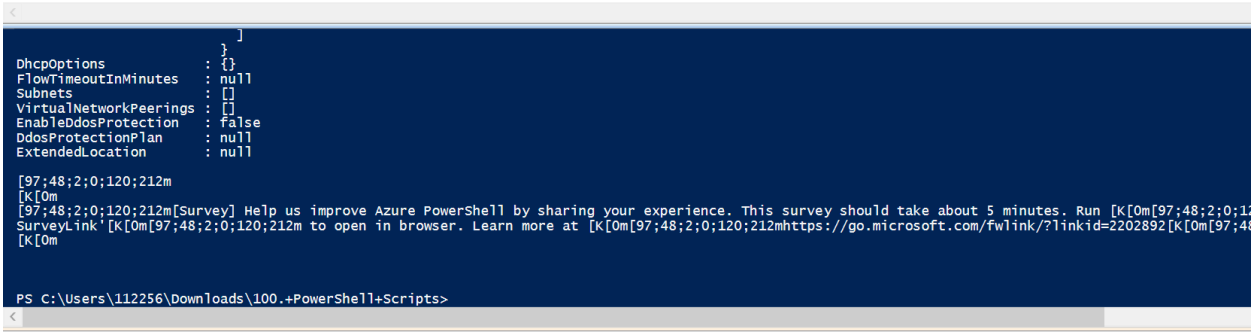
$location="North Europe"

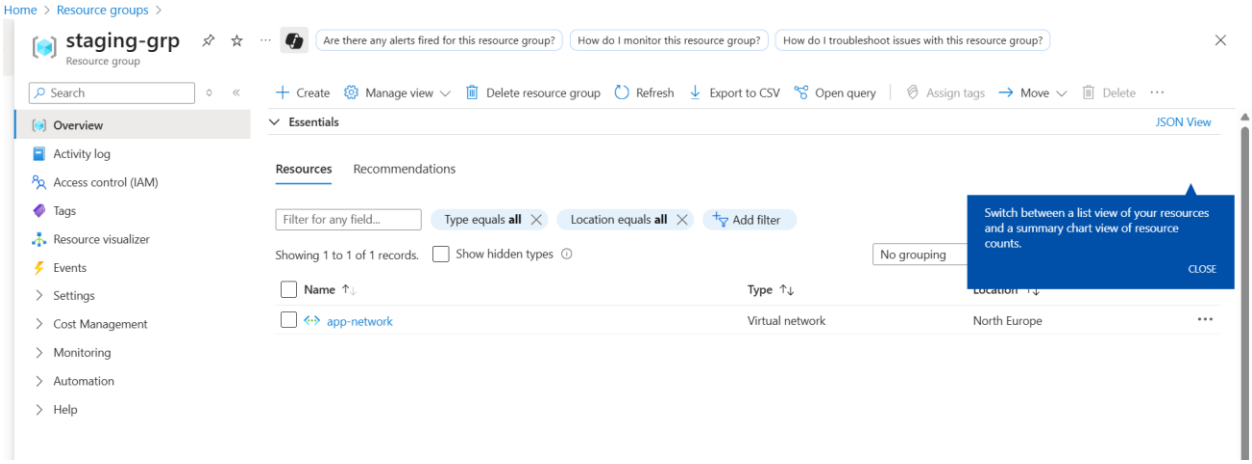
$networkName="app-network"

$addressPrefix="10.0.0.0/16"

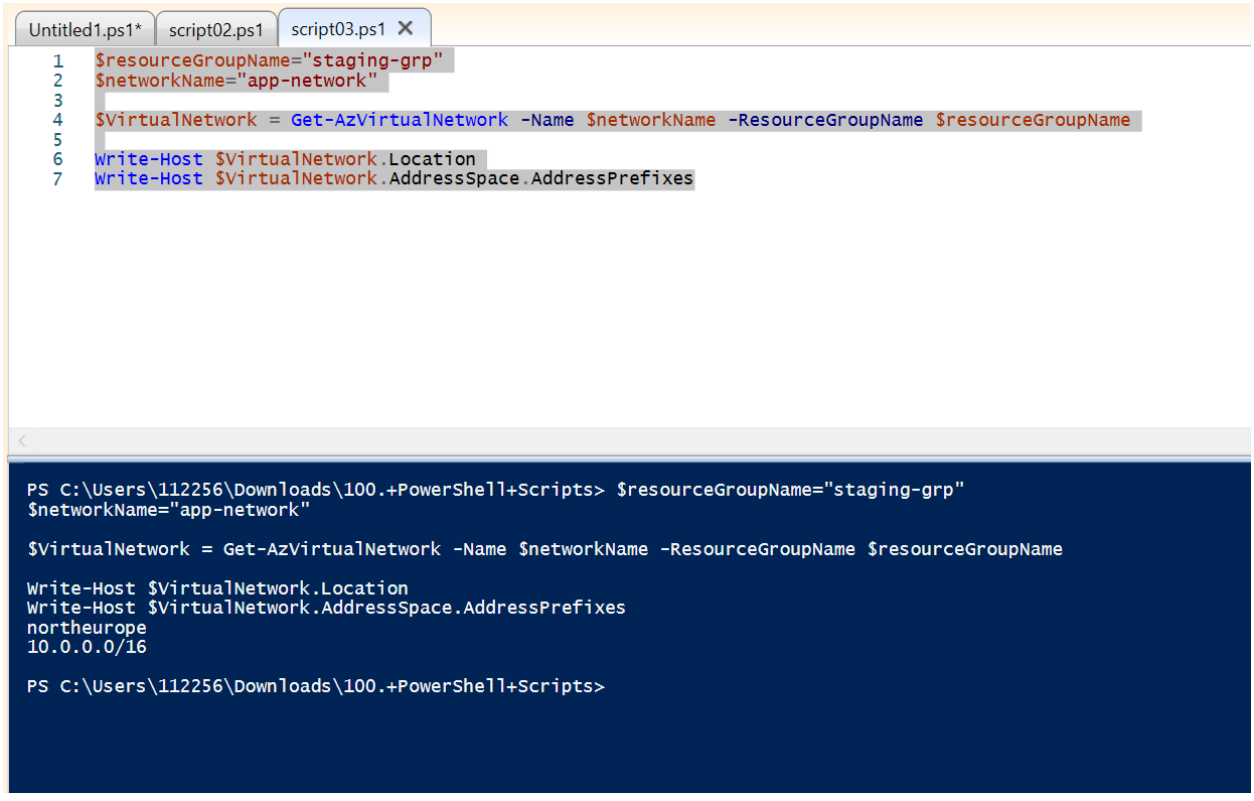
New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `

-Location $location -AddressPrefix $addressPrefix

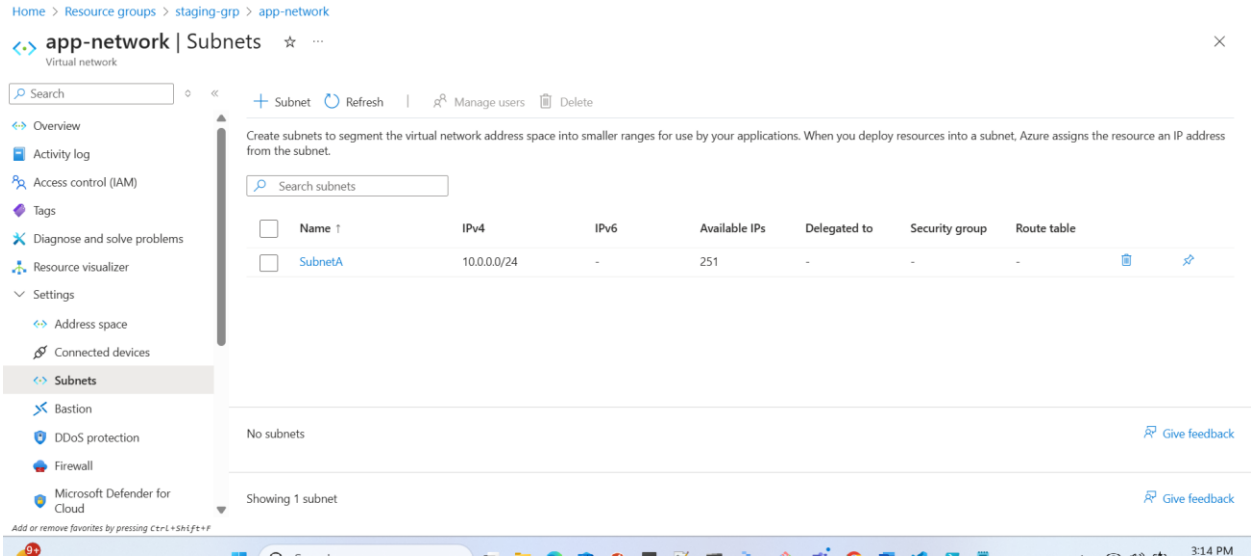




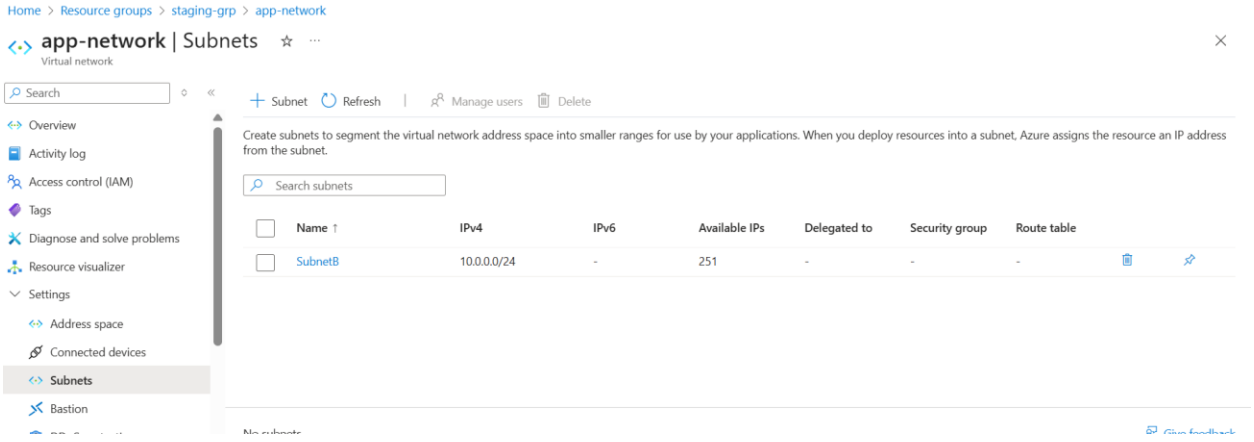
Getting details of a virtual network



Add subnet



A new virtual network with a subnet



ARM template

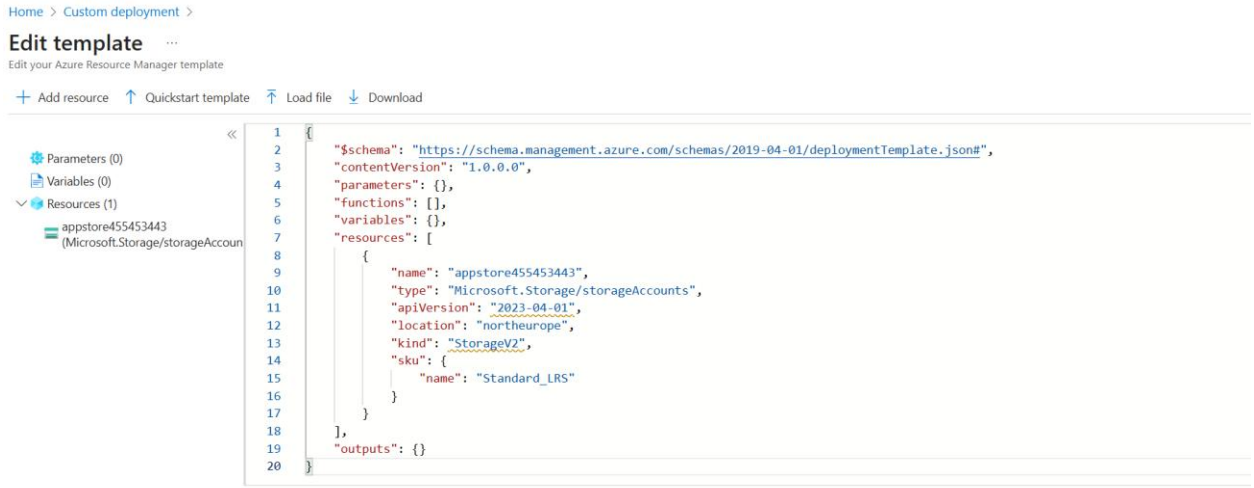
Azure Resource Manager template (ARM template). It presents the different sections of a template and the properties that are available in those sections.

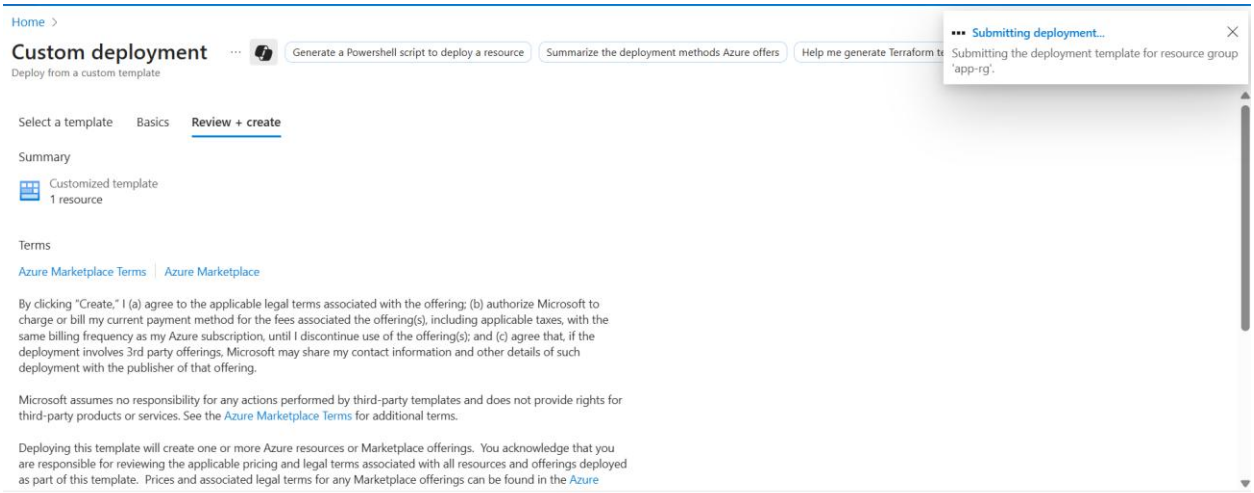
Using PowerShell to deploy the template

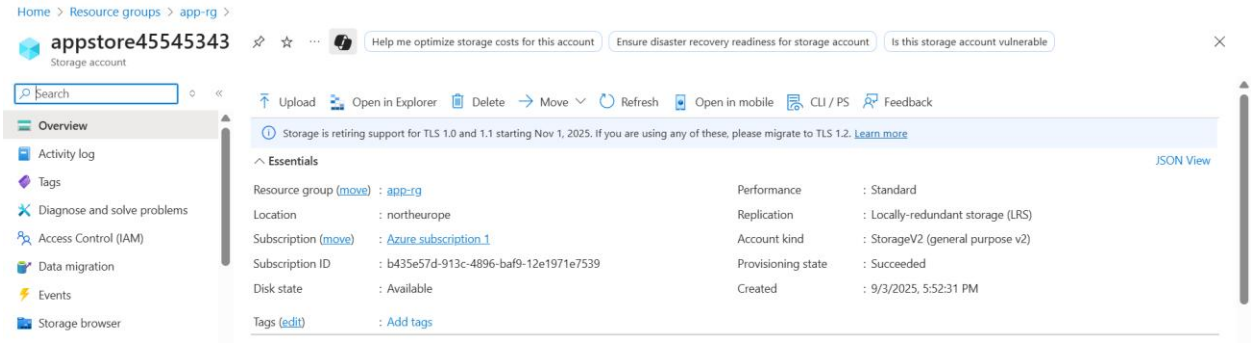
```
PS /home/manisha> New-AzDeployment -Location northeurope -TemplateFile .\template01.json

Id                      : /subscriptions/b435e57d-913c-4896-baf9-12e1971e7539/providers/Microsoft.Resources/deployments/template01
DeploymentName          : template01
Location                : northeurope
ProvisioningState       : Succeeded
Timestamp               : 9/3/2025 10:44:42 AM
Mode                    : Incremental
TemplateLink            :
Parameters              :
Outputs                 :
DeploymentDebugLogLevel :
```

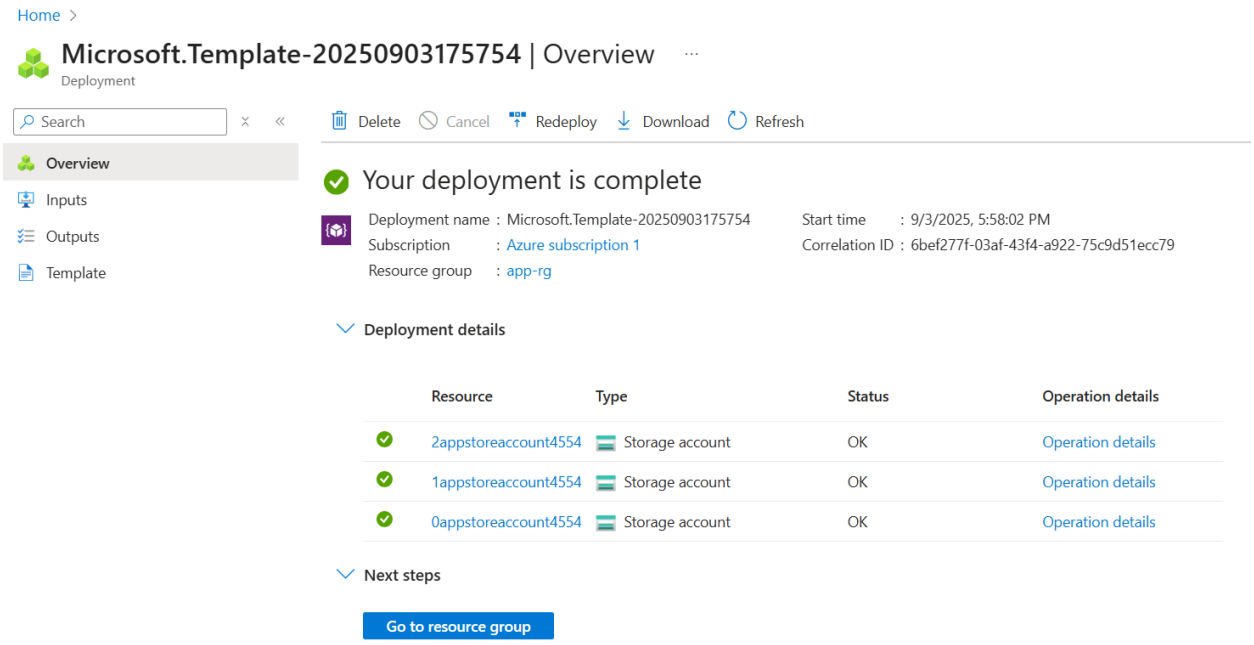
Azure Storage Account - Building the template

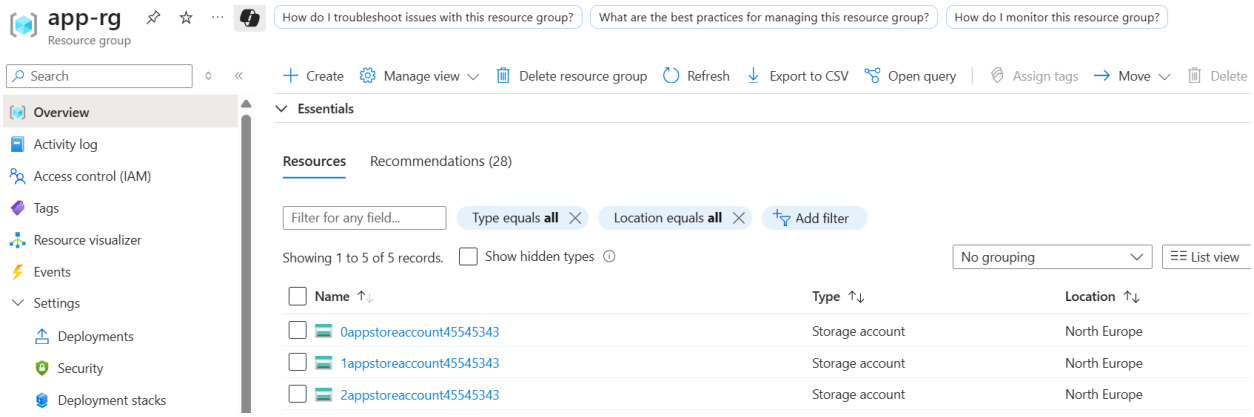




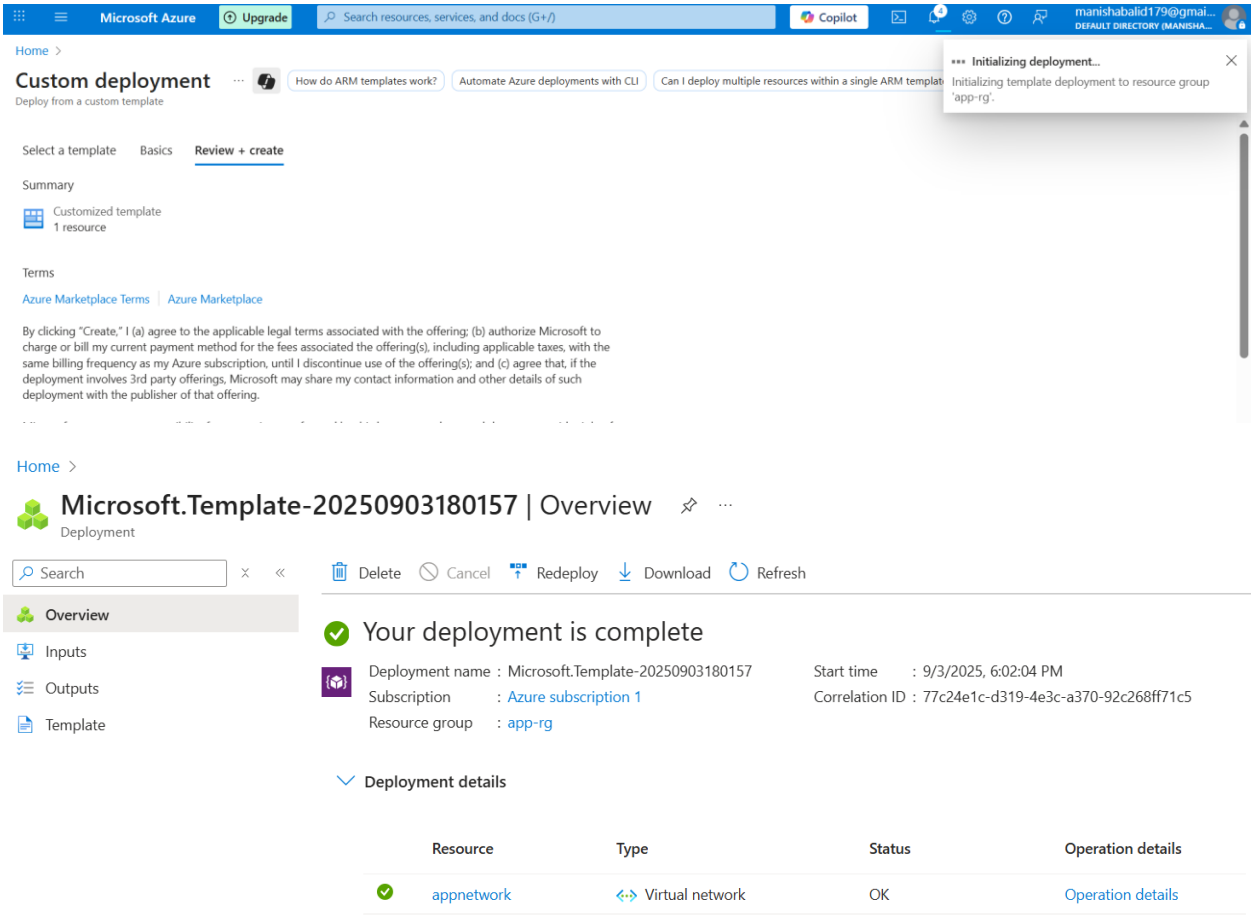


Multiple copies of a resource

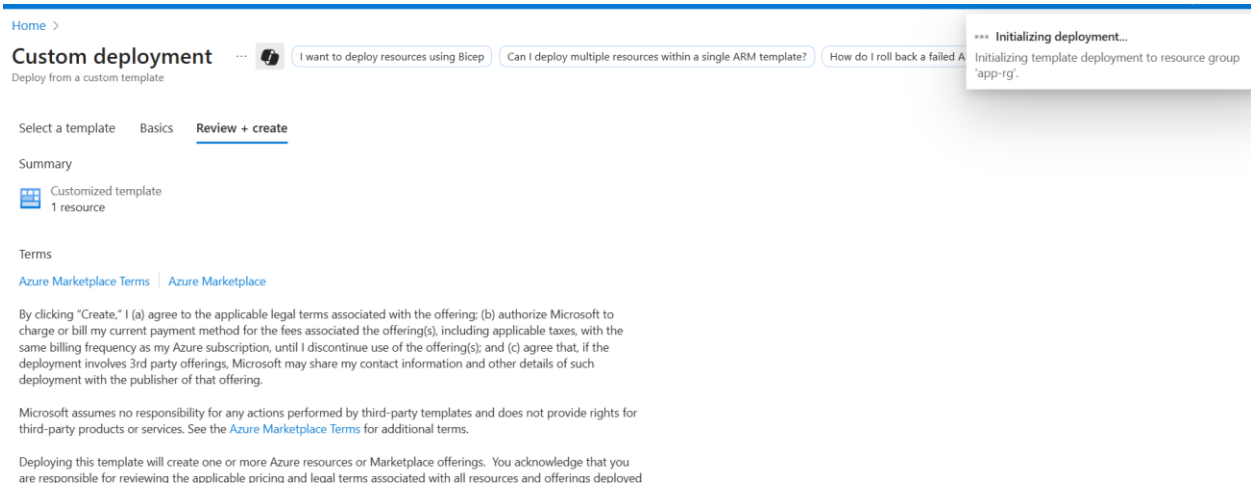


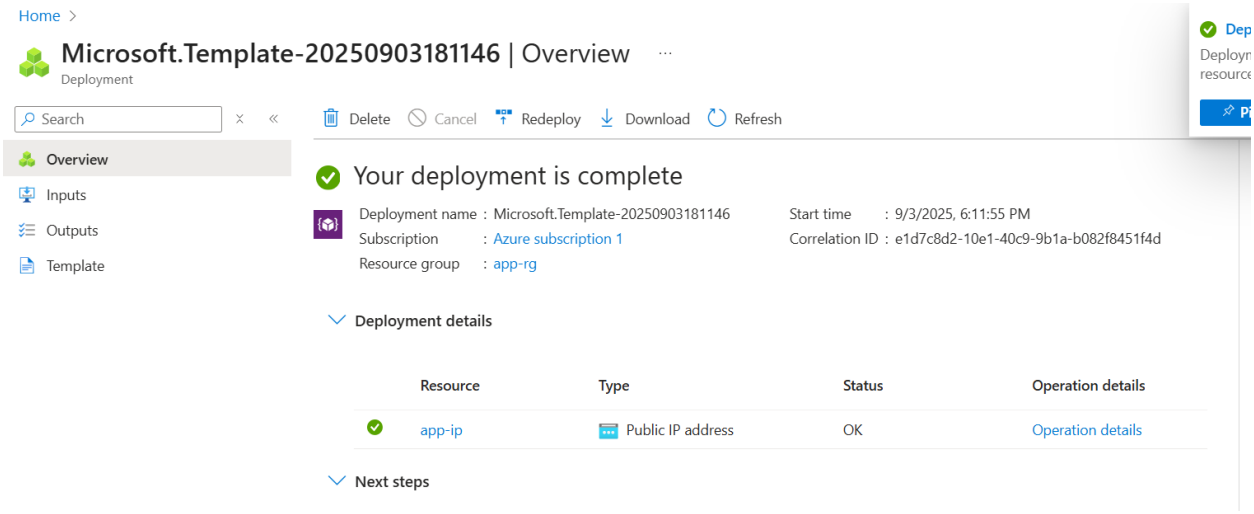


Azure Virtual network

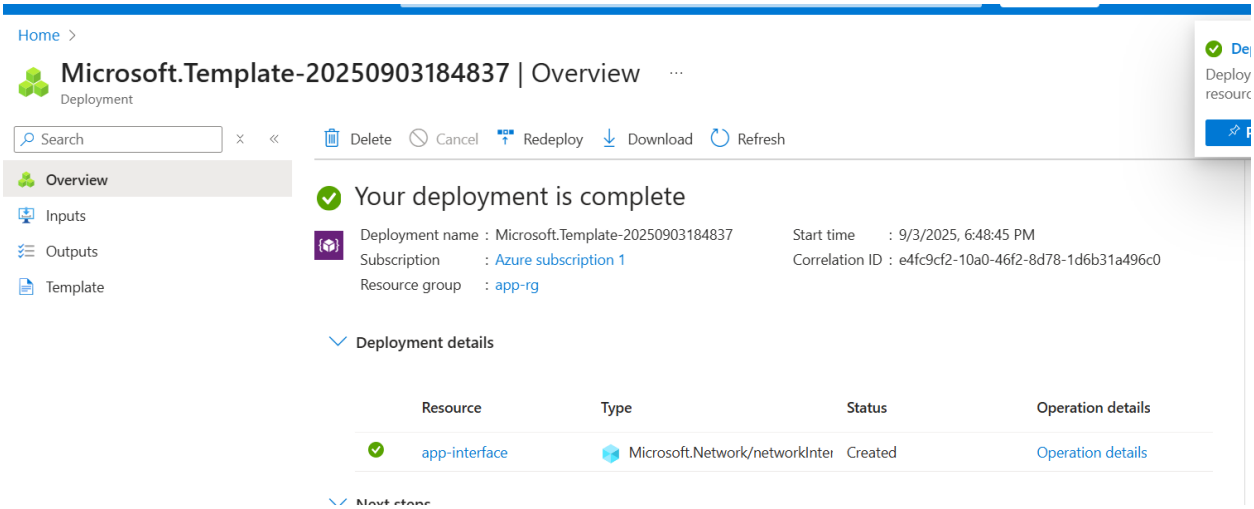


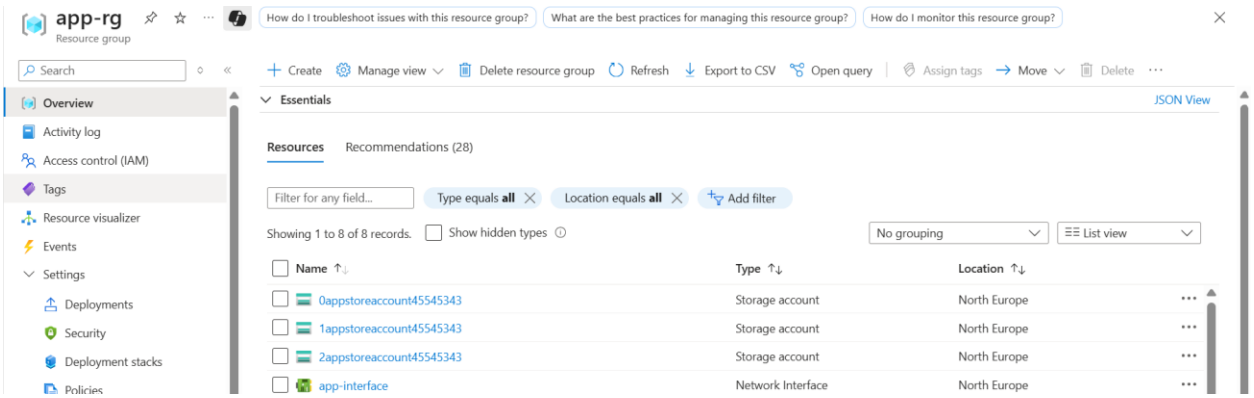
Public IP address



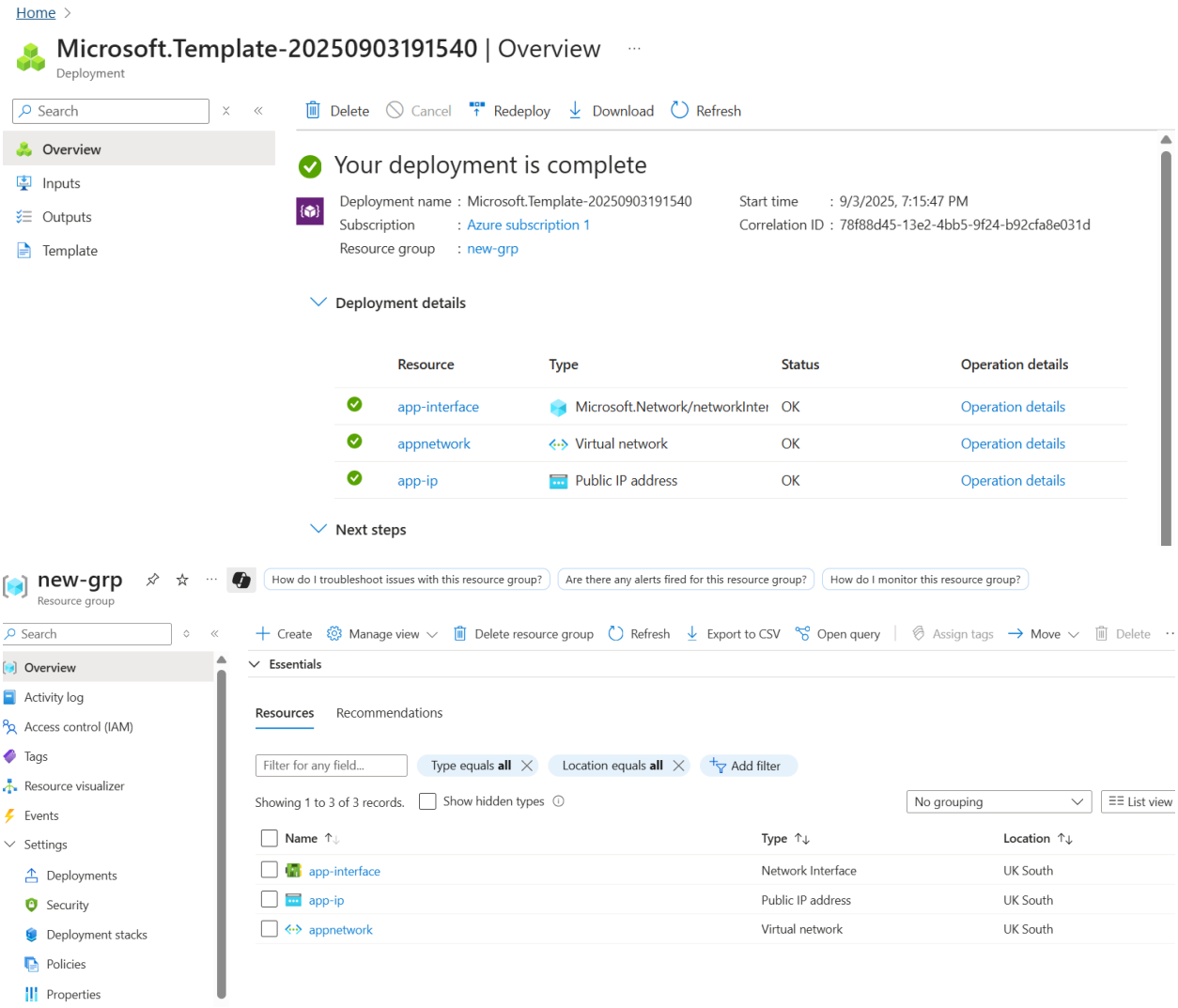


Network Interface - Using an existing virtual network

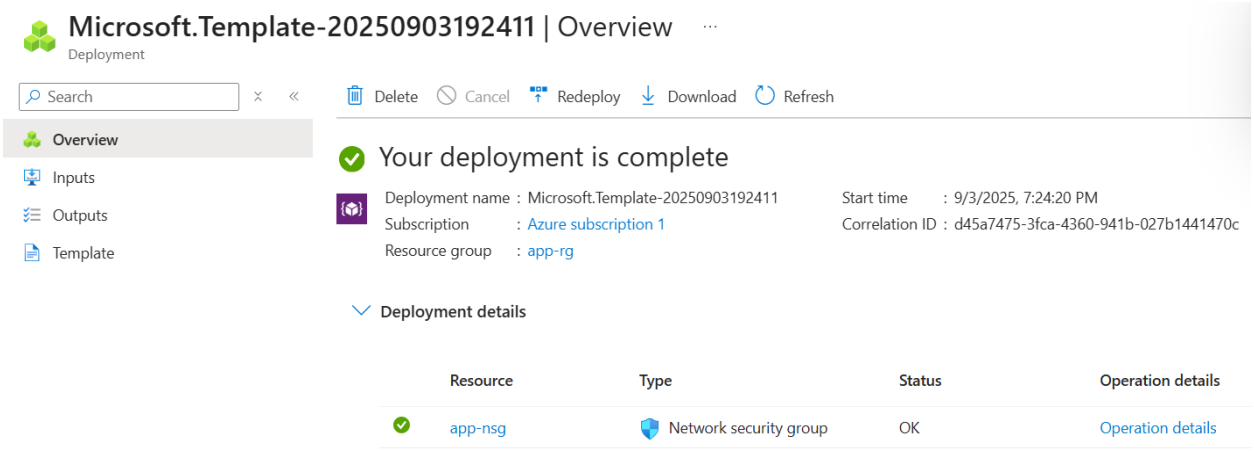

Home
Microsoft.Template-20250903184837 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name : Microsoft.Template-20250903184837
Subscription : Azure subscription 1
Resource group : app-rg
Start time : 9/3/2025, 6:48:45 PM
Correlation ID : e4fc9cf2-10a0-46f2-8d78-1d6b31a496c0
Deployment details
Resource
Type
Status
Operation details
app-interface
Microsoft.Network/networkInter
Created
Operation details


app-rg
Resource group
How do I troubleshoot issues with this resource group?
What are the best practices for managing this resource group?
How do I monitor this resource group?
Search
Create
Manage view
Delete resource group
Refresh
Export to CSV
Open query
Assign tags
Move
Delete
Overview
Activity log
Access control (IAM)
Tags
Resource visualizer
Events
Settings
Deployments
Security
Deployment stacks
Essentials
JSON View
Resources
Recommendations (28)
Filter for any field...
Type equals all
Location equals all
Add filter
Showing 1 to 8 of 8 records.
Show hidden types
No grouping
List view
Name
Type
Location
0appstoreaccount45545343
Storage account
North Europe
1appstoreaccount45545343
Storage account
North Europe
2appstoreaccount45545343
Storage account
North Europe
app-interface
Network Interface
North Europe

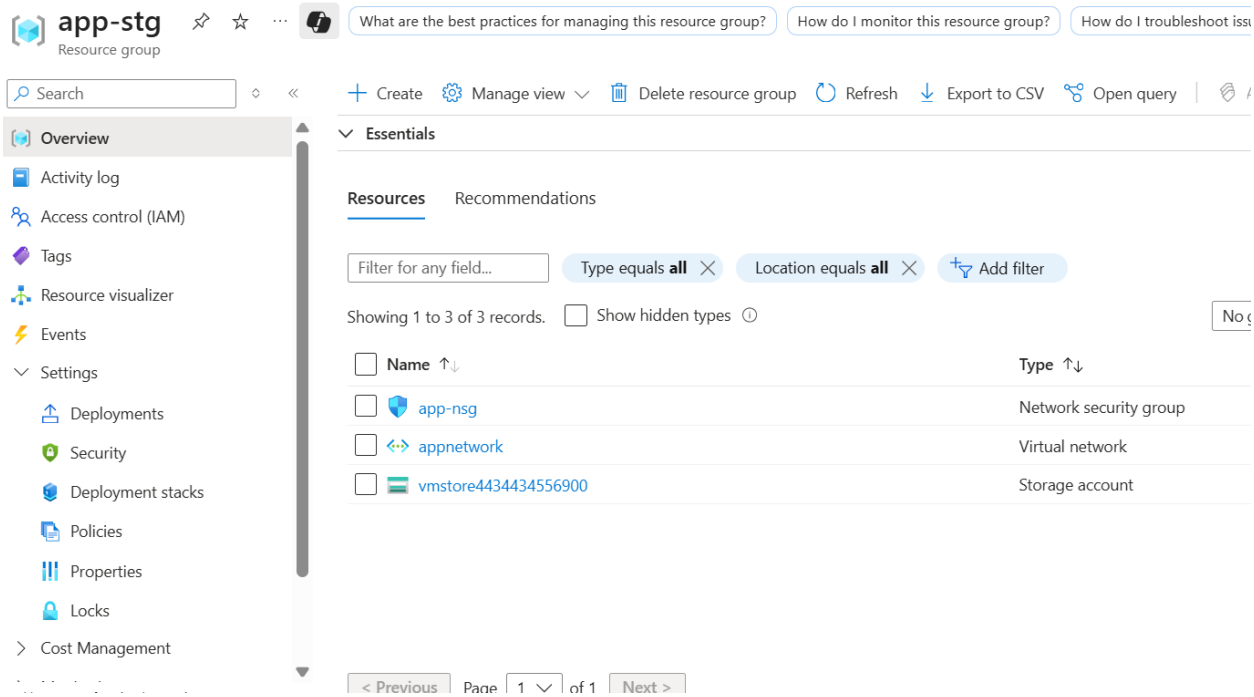
Resource group location



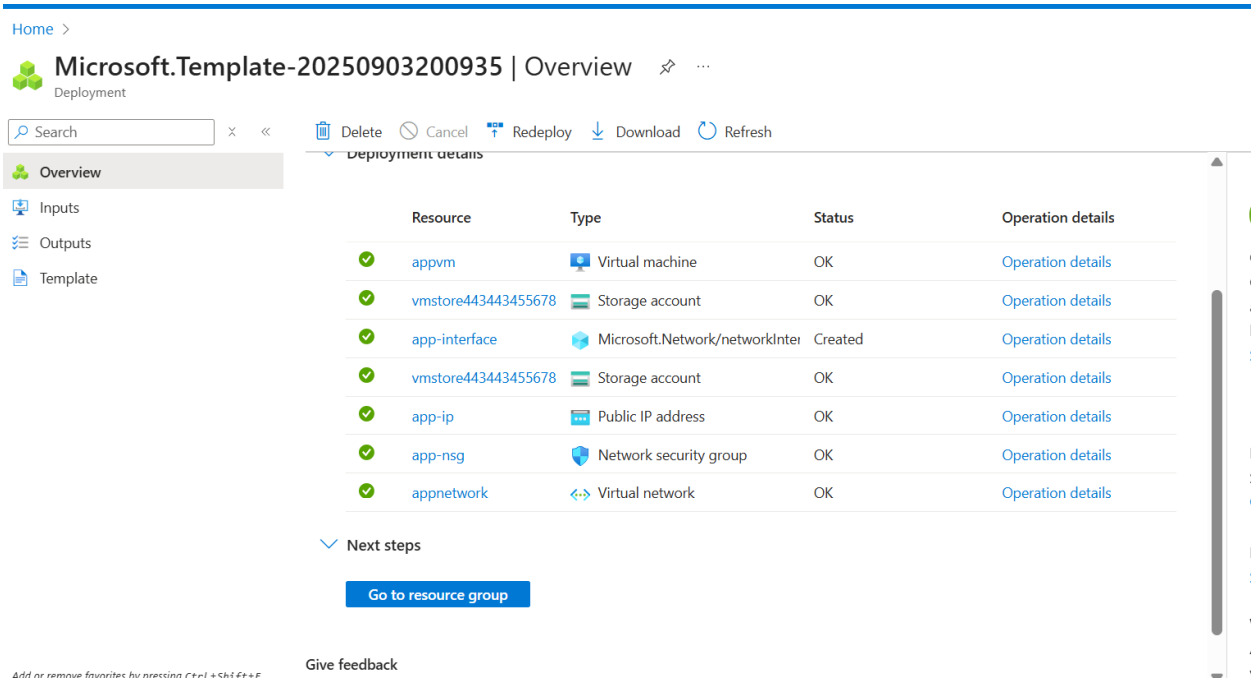
Creating a Network Security Group

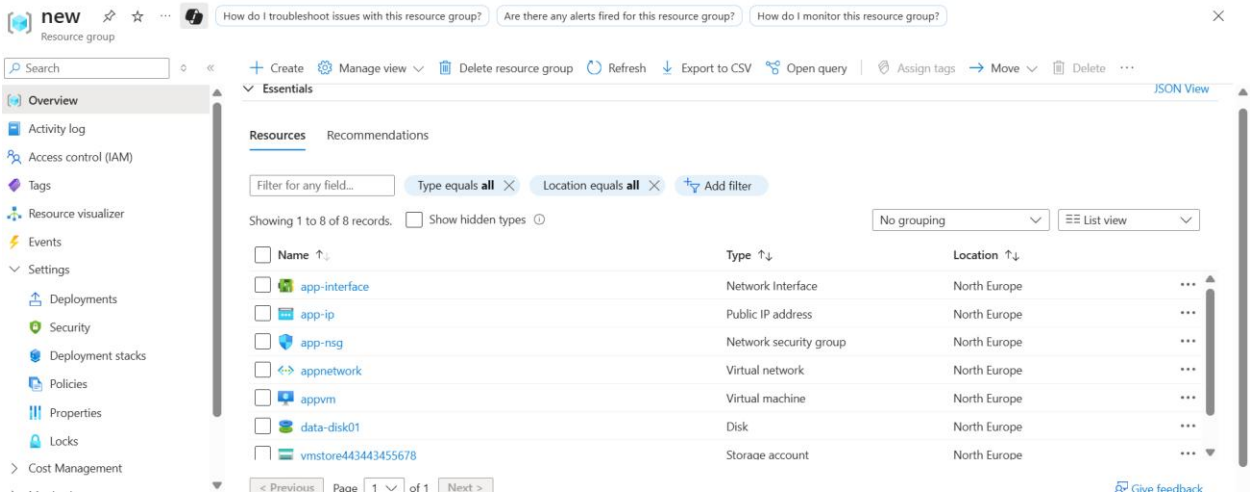
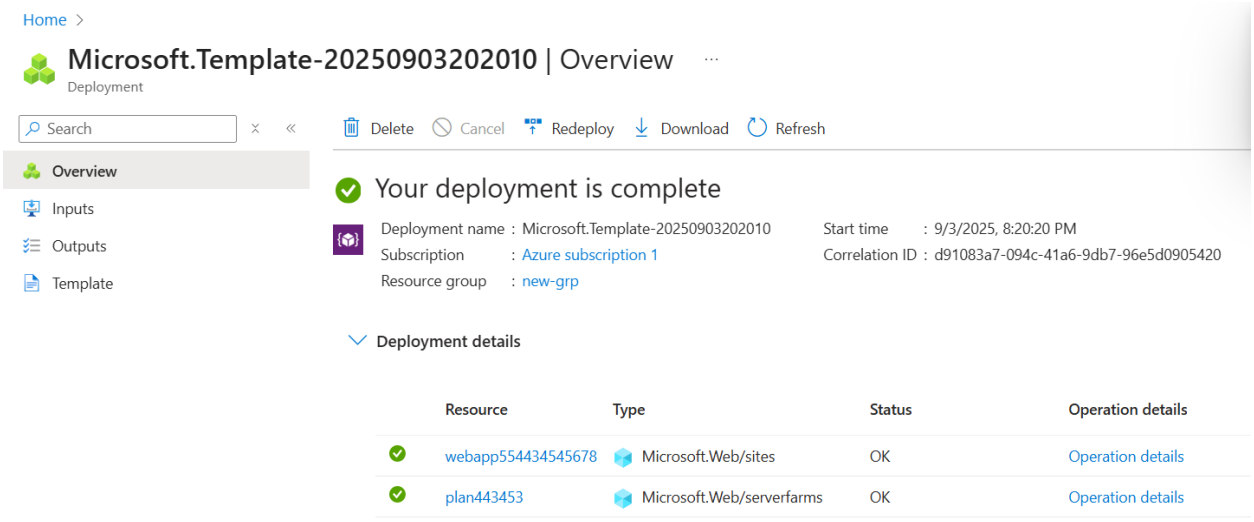
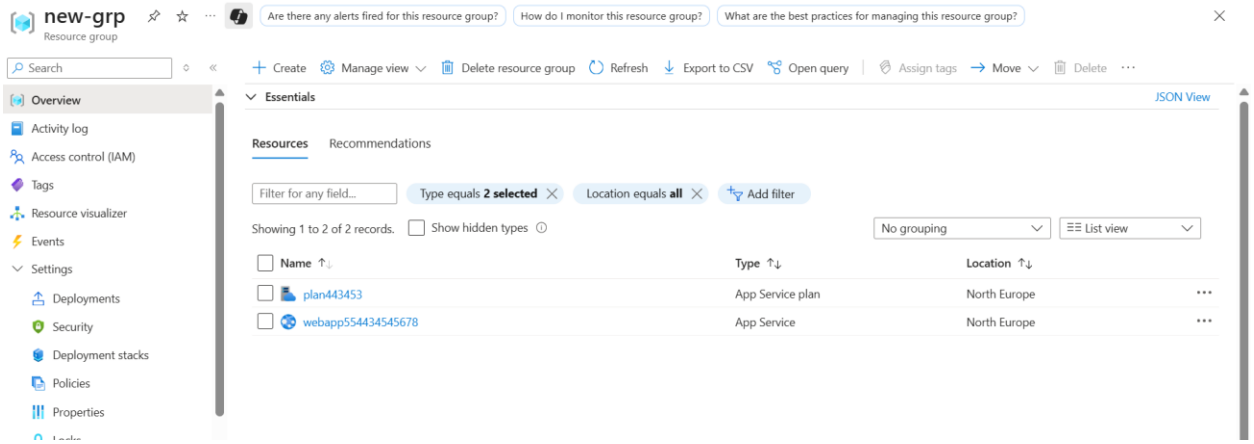


Creating an Azure virtual machine



Creating a VM with a data disk





Azure Web App