Azure Virtual Machine Assignment Report

Student Name: Nesibe Bakırdağ

Course: Azure 1

Instructor: Fatih Demir

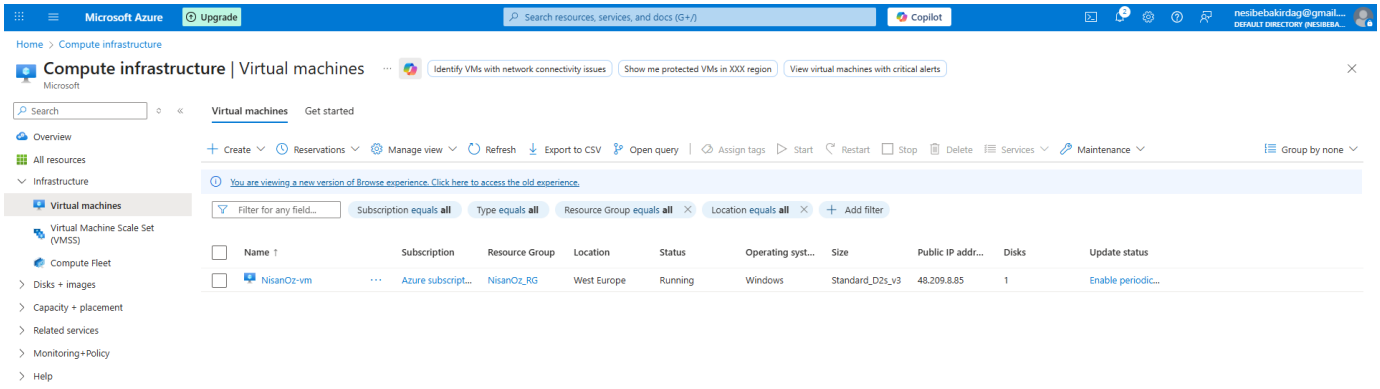
Date: 09.11.2025

Section 1: English Version

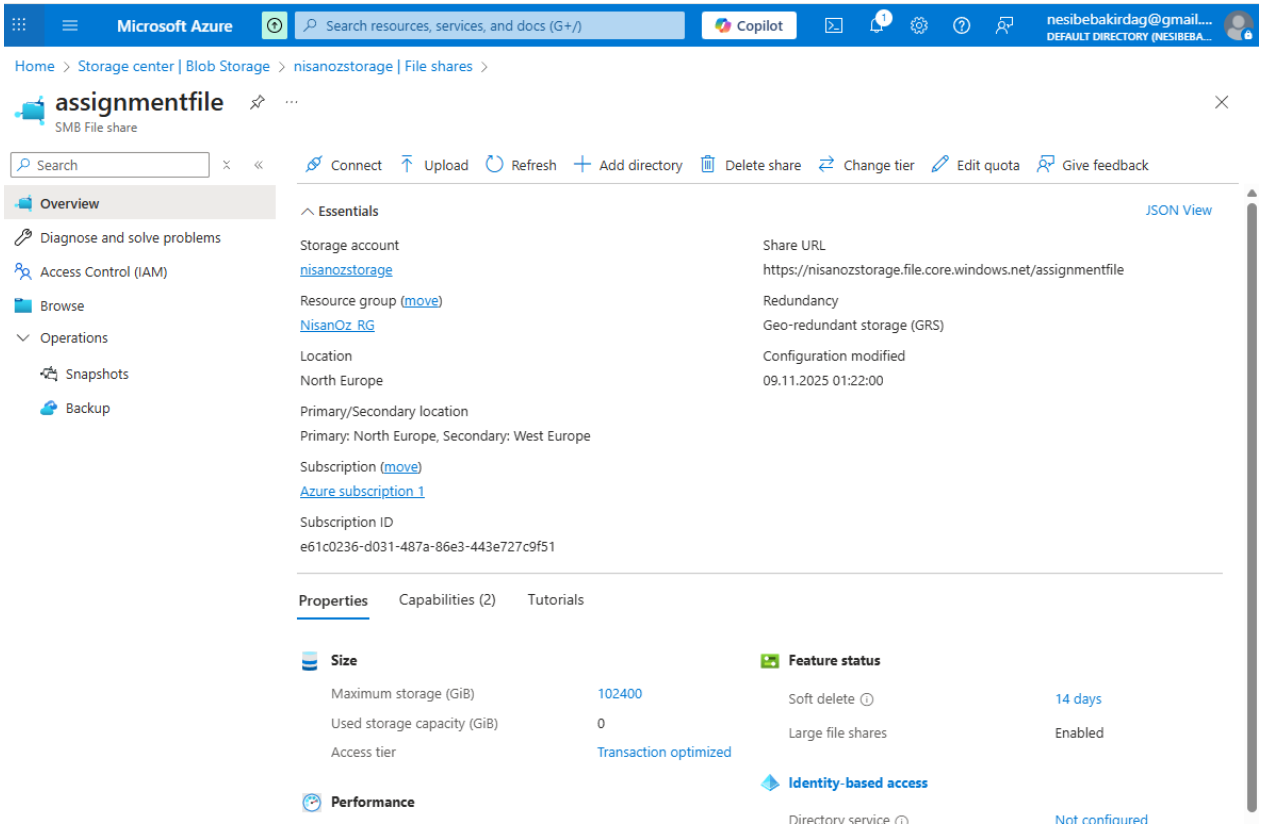
1. Create Azure Account - A free Azure student trial account was created and verified. - Access to Azure portal confirmed.

2. Create a Resource Group - Resource group name: `NisanOz_RG` - Location: North Europe - Purpose: To logically group VM and storage resources.

3. Create a Virtual Machine - VM Name: `NisanOz-VM` - OS Image: Windows Server 2019 Datacenter - Size: Standard B2s (2 vCPUs, 4 GiB RAM) - Administrator username: Nesibe - Status: Running



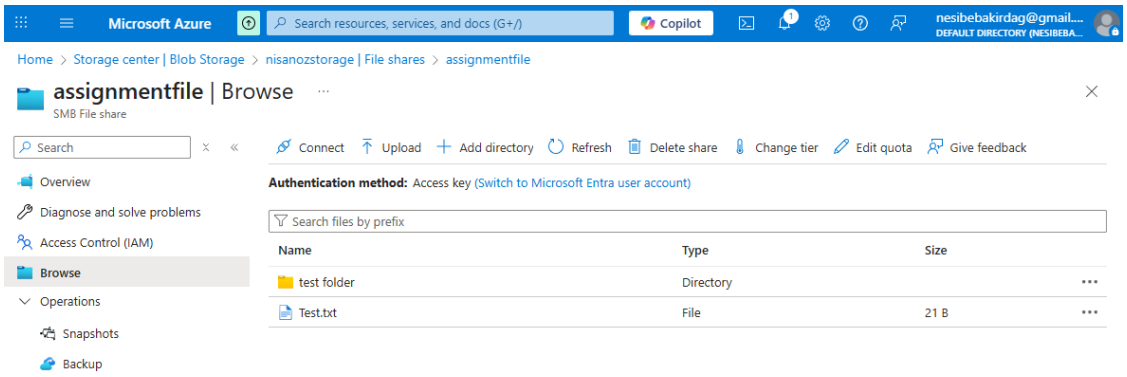
4. Create Storage Account and File Share - Storage account name: `nisanozstorage` - File share name: `assignmentfile` - SMB connection configured

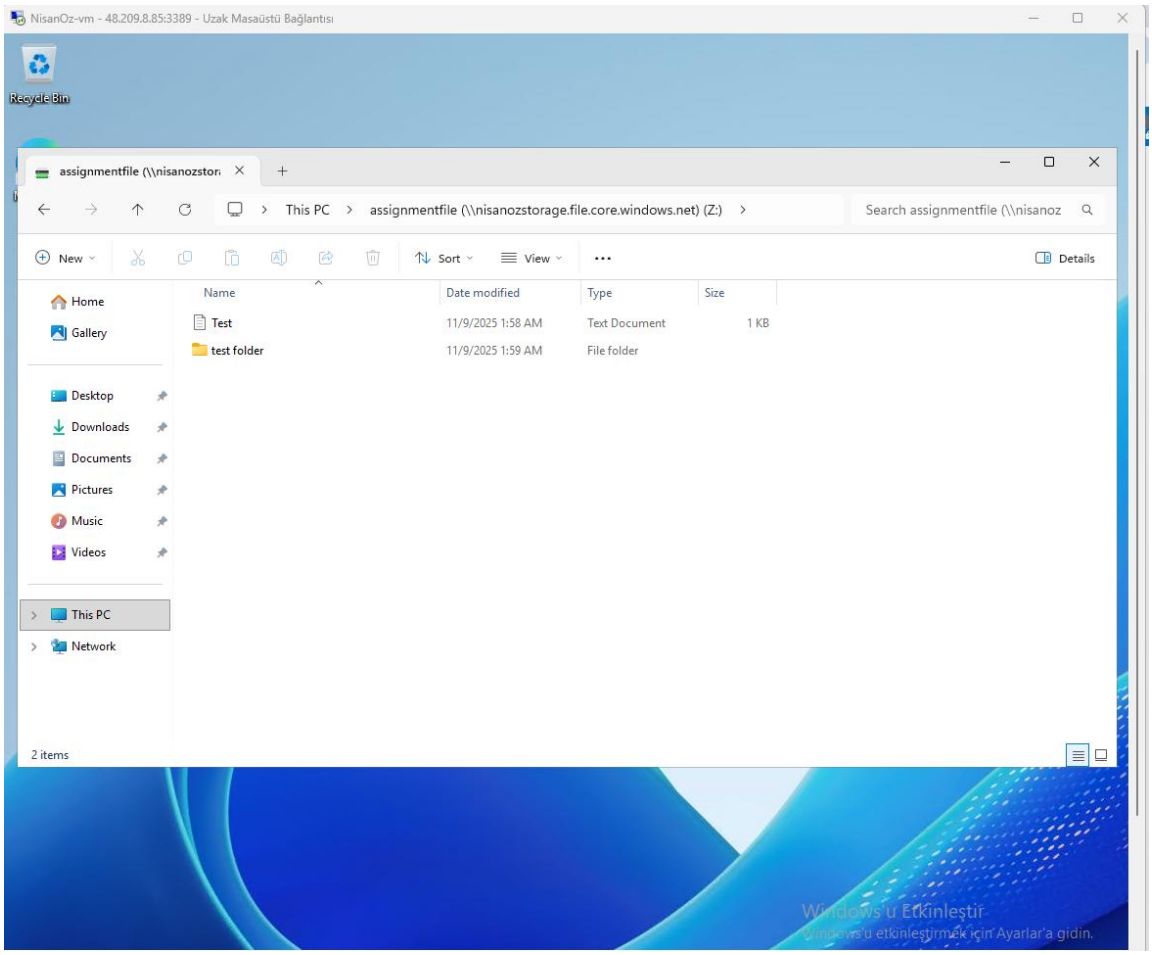


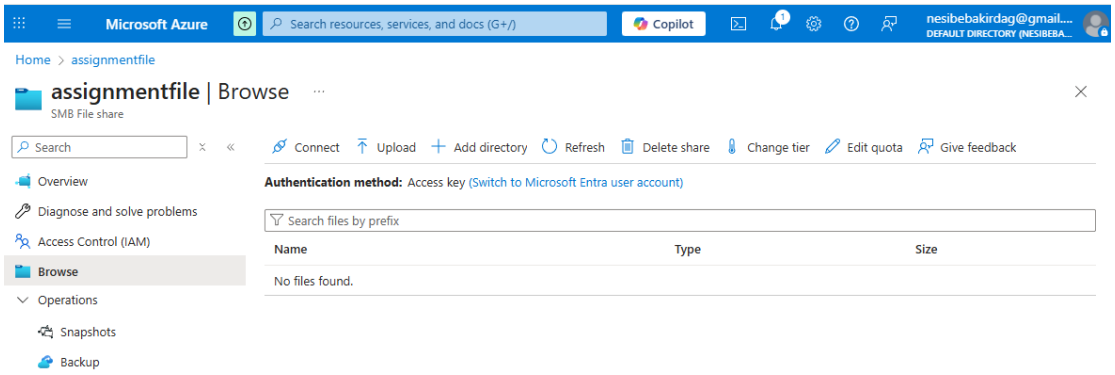
5. Connect File Share to VM - Connected via PowerShell command:

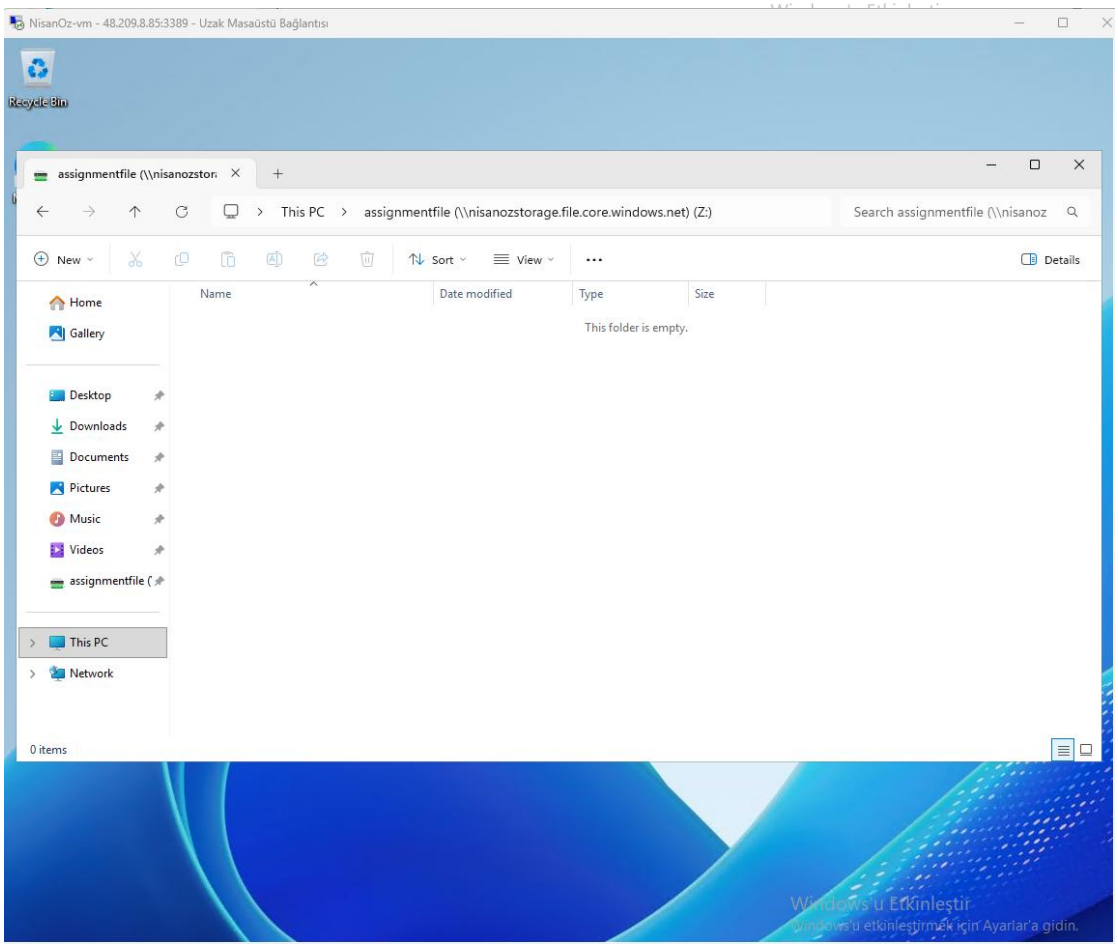
```
net use Z: \\nisanozstorage.file.core.windows.net\assignmentfile
/user:nisanozstorage <StorageAccountKey> /persistent:yes
```

- Successfully mapped as Z: drive
- Test files created, read, and deleted to confirm connection


Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
nesibebakirdag@gmail....
DEFAULT DIRECTORY (NESIBEBA...
Home > Storage center | Blob Storage > nisanozstorage | File shares > assignmentfile
assignmentfile | Browse
SMB File share
Search
Overview
Diagnose and solve problems
Access Control (IAM)
Browse
Operations
Snapshots
Backup
Connect
Upload
Add directory
Refresh
Delete share
Change tier
Edit quota
Give feedback
Authentication method: Access key (Switch to Microsoft Entra user account)
Search files by prefix
Name
Type
Size
test folder
Directory
Test.txt
File
21 B


NisanOz-vm - 48.209.8.85:3389 - Uzak Masaüstü Bağlantısı
Recycle Bin
assignmentfile (\\nisanozstor
This PC
assignmentfile (\\nisanozstorage.file.core.windows.net) (Z:)
Search assignmentfile (\\nisanoz
New
Sort
View
Details
Home
Gallery
Desktop
Downloads
Documents
Pictures
Music
Videos
This PC
Network
Name
Date modified
Type
Size
Test
11/9/2025 1:58 AM
Text Document
1 KB
test folder
11/9/2025 1:59 AM
File folder
2 items
Windows'u Etkinleştir
Windows'u etkinleştirmek için Ayarlar'a gidin.

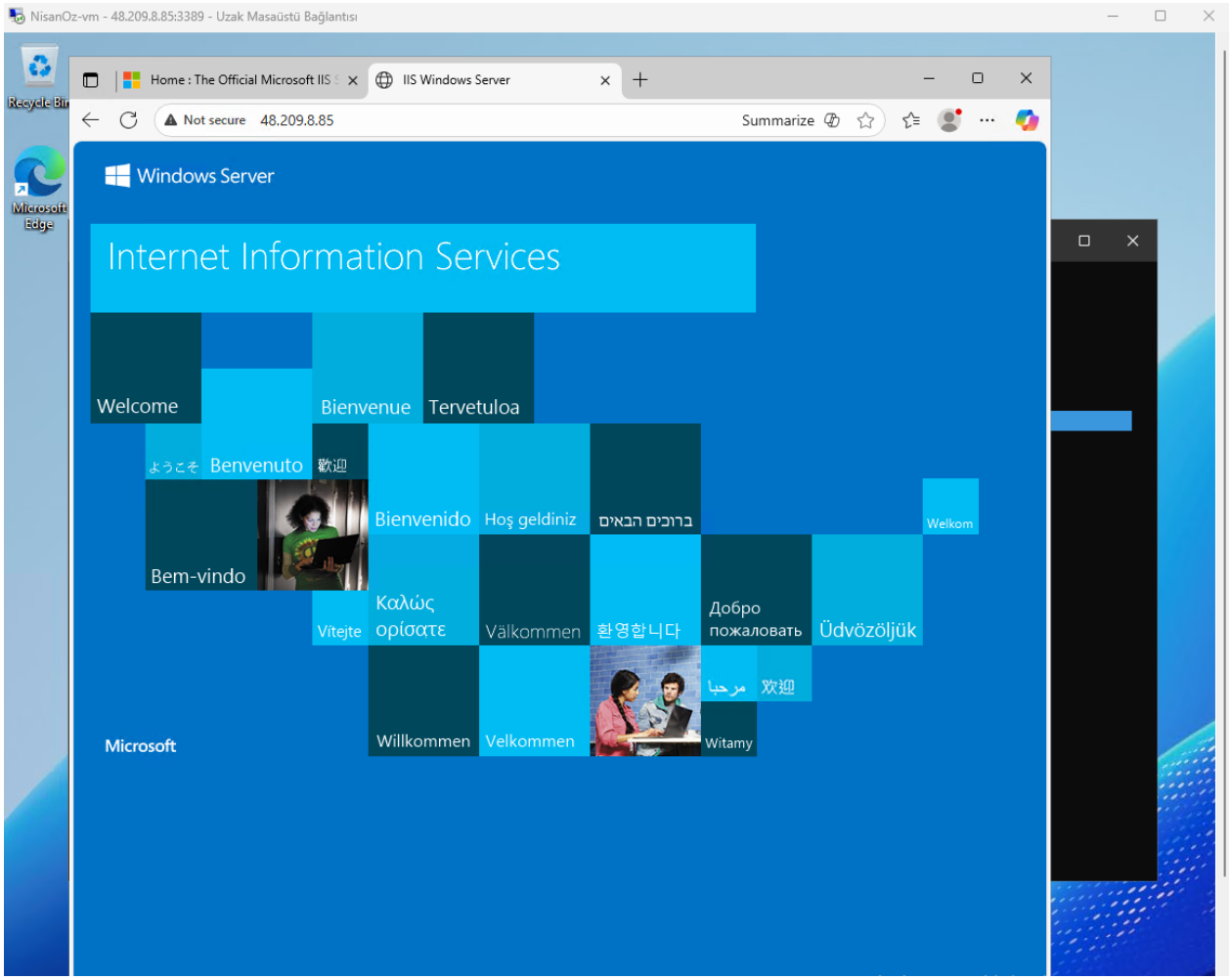

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
nesibebakirdag@gmail....
DEFAULT DIRECTORY (NESIBEBA...
Home > assignmentfile
assignmentfile | Browse
SMB File share
Search
Overview
Diagnose and solve problems
Access Control (IAM)
Browse
Operations
Snapshots
Backup
Connect
Upload
Add directory
Refresh
Delete share
Change tier
Edit quota
Give feedback
Authentication method: Access key (Switch to Microsoft Entra user account)
Search files by prefix
Name
Type
Size
No files found.


NisanOz-vm - 48.209.8.85:3389 - Uzak Masaüstü Bağlantısı
Recycle Bin
assignmentfile (\\nisanozstor
This PC > assignmentfile (\\nisanozstorage.file.core.windows.net) (Z:)
Search assignmentfile (\\nisanoz
New
Sort
View
Details
Home
Gallery
Desktop
Downloads
Documents
Pictures
Music
Videos
assignmentfile (
This PC
Network
Name
Date modified
Type
Size
This folder is empty.
0 items
Windows'u Etkinleştir
Windows'u etkinleştirmek için Ayarlar'a gidin.

6. Install IIS Web Server - PowerShell command executed:

```
Install-WindowsFeature -name Web-Server -IncludeManagementTools
```

- HTTP port (80) opened in Network Security Group
- Public IP tested, IIS Welcome page accessible



7. Summary and Results - VM successfully created and running - File share connected and tested - IIS web server installed and verified - All objectives of the assignment achieved

8. Problems and Solutions | Problem | Solution | |———|———| | Port 80 access blocked | Added inbound rule for HTTP in NSG | | File share mount error | Corrected Storage Account Key, removed < > symbols | | Initial RDP connection failure | Reset password and recreated VM |

9. Cleanup - Deleted all resources after completion to avoid unnecessary costs.

Section 2: Turkish Version

1. Azure Hesabı Oluşturma - Ücretsiz Azure öğrenci hesabı oluşturuldu ve doğrulandı. - Azure portal erişimi sağlandı.

2. Resource Group Oluşturma - Resource group adı: `NisanOz_RG` - Lokasyon: North Europe - Amaç: VM ve storage kaynaklarını mantıksal olarak gruplayabilmek.

3. Sanal Makine Oluşturma - VM Adı: `NisanOz-VM` - İşletim Sistemi: Windows Server 2019 Datacenter - Boyut: Standard B2s (2 vCPU, 4 GiB RAM) - Yönetici kullanıcı adı: Nesibe - Durum: Çalışıyor

4. Storage Hesabı ve File Share Oluşturma - Storage account adı: `nisanozstorage` - File share adı: `assignmentfile` - SMB bağlantısı yapılandırıldı

5. File Share'i VM'e Bağlama - PowerShell ile bağlantı:

```
net use Z: \\nisanozstorage.file.core.windows.net\assignmentfile
/user:nisanozstorage <StorageAccountKey> /persistent:yes
```

- Z: sürücüsü olarak başarıyla bağlandı
- Test dosyaları oluşturuldu, okundu ve silindi

6. IIS Web Sunucusu Kurulumu - PowerShell komutu:

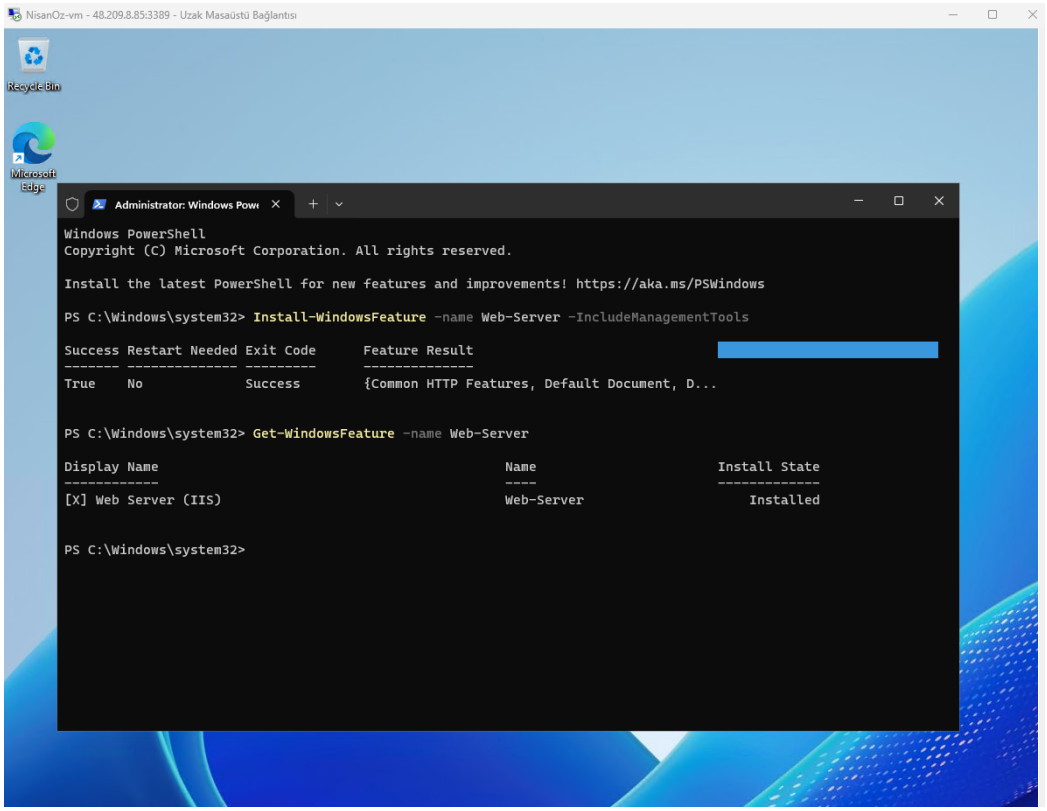
```
Install-WindowsFeature -name Web-Server -IncludeManagementTools
```

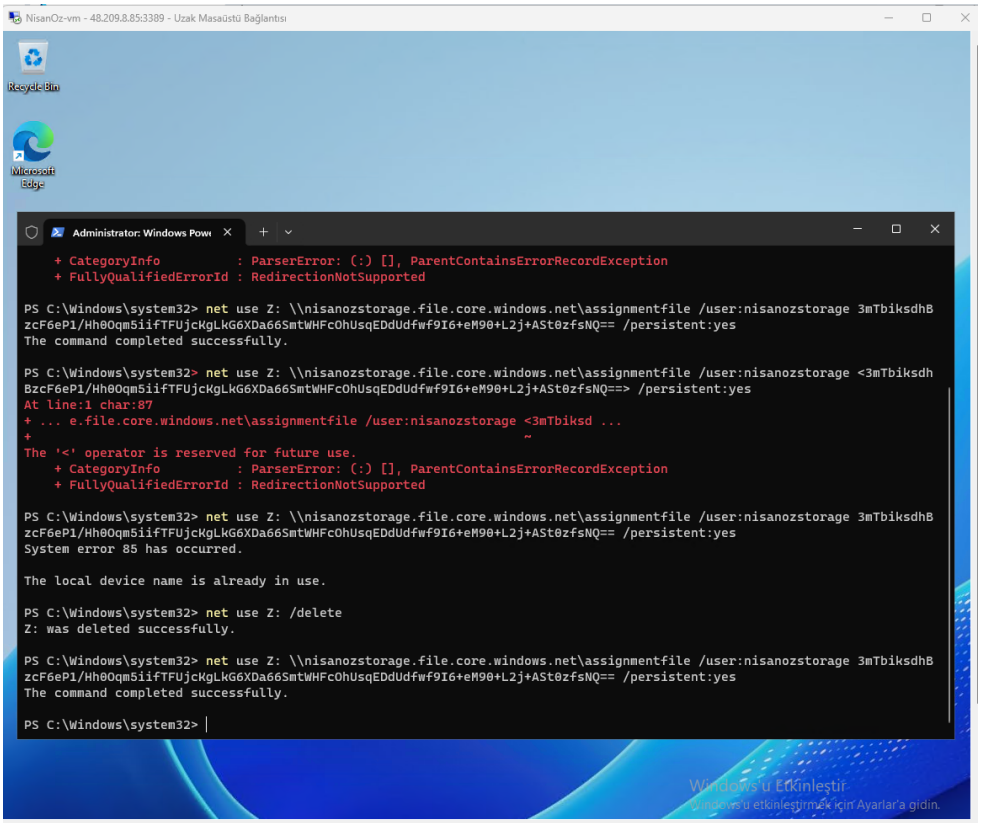
- HTTP port (80) NSG üzerinden açıldı
- Public IP ile test edildi, IIS Welcome sayfası erişilebilir durumda

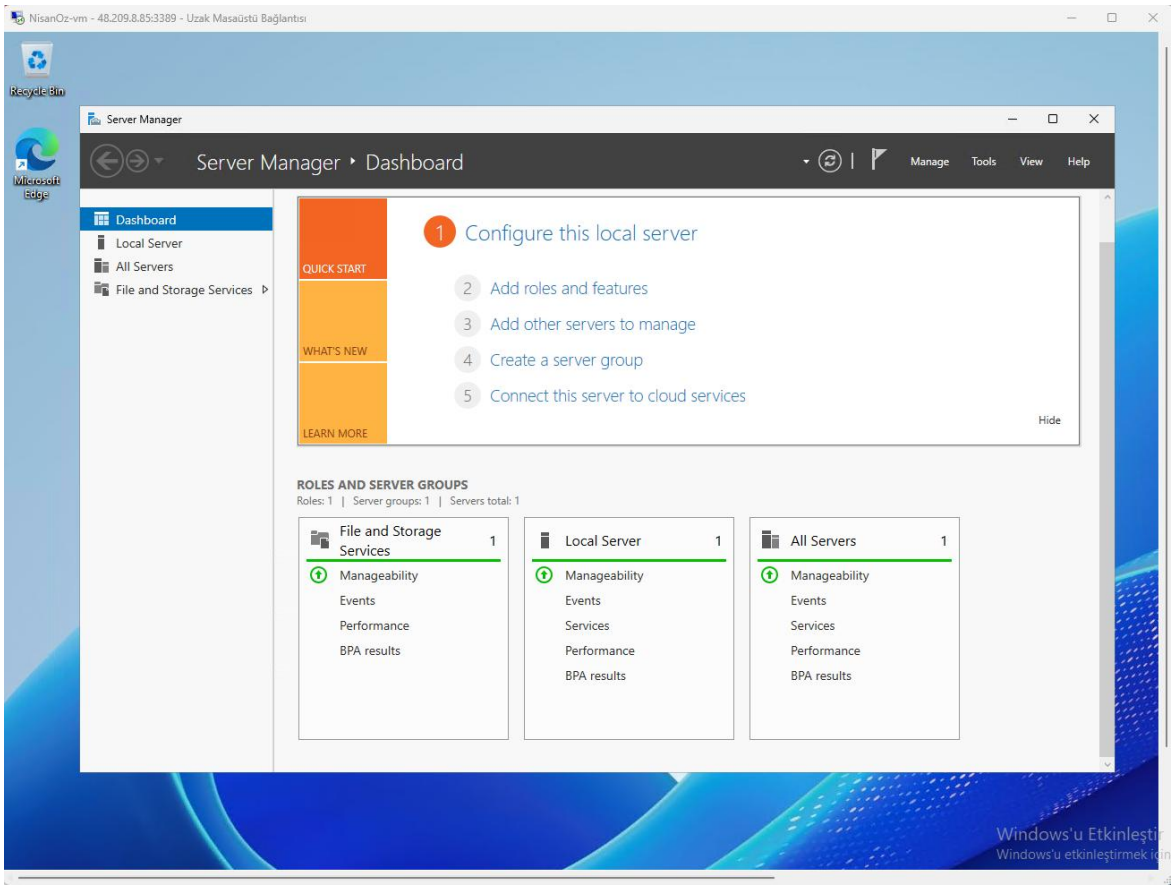
7. Özet ve Sonuçlar - VM başarıyla oluşturuldu ve çalışıyor - File share bağlandı ve test edildi - IIS web sunucusu kuruldu ve doğrulandı - Ödevin tüm hedefleri tamamlandı

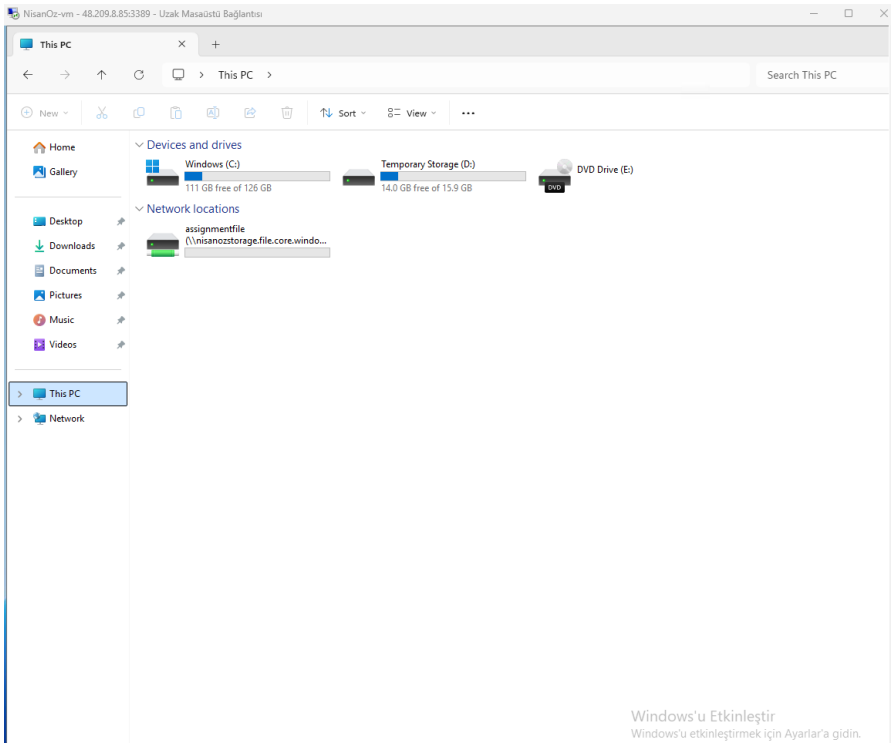
8. Karşılaşılan Sorunlar ve Çözümleri | Sorun | Çözüm | |——-|——-| | Port 80 erişim engeli | NSG'de HTTP için inbound kural eklendi | | File share bağlama hatası | Storage Account Key düzeltildi, < > sembolleri kaldırıldı | | İlk RDP bağlantı hatası | Şifre sıfırlandı ve VM yeniden oluşturuldu |

9. Temizlik - Tüm kaynaklar ödev tamamlandıktan sonra silindi, gereksiz maliyet önlendi.


NisanOz-vm - 48.209.8.85:3389 - Uzak Masaüstü Bağlantısı
Recycle Bin
Microsoft Edge
Administrator: Windows Pow
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Windows\system32> Install-WindowsFeature -name Web-Server -IncludeManagementTools
Success Restart Needed Exit Code Feature Result
True No Success {Common HTTP Features, Default Document, D...
PS C:\Windows\system32> Get-WindowsFeature -name Web-Server
Display Name Name Install State
[X] Web Server (IIS) Web-Server Installed
PS C:\Windows\system32>


NisanOz-vm - 48.209.8.85:3389 - Uzak Masaüstü Bağlantısı
Recycle Bin
Microsoft Edge
Administrator: Windows Pow
+ CategoryInfo : ParserError: (:) [], ParentContainsErrorRecordException
+ FullyQualifiedErrorId : RedirectionNotSupported
PS C:\Windows\system32> net use Z: \\nisanozstorage.file.core.windows.net\assignmentfile /user:nisanozstorage 3mTbiksdhB
zcF6eP1/Hh0Oqm5iifTFUjcKgLkG6XDa66SmtWHFcOhUsqEDdUdfwf9I6+eM90+L2j+ASt0zfsNQ== /persistent:yes
The command completed successfully.
PS C:\Windows\system32> net use Z: \\nisanozstorage.file.core.windows.net\assignmentfile /user:nisanozstorage <3mTbiksdh
BzcF6eP1/Hh0Oqm5iifTFUjcKgLkG6XDa66SmtWHFcOhUsqEDdUdfwf9I6+eM90+L2j+ASt0zfsNQ==> /persistent:yes
At line:1 char:87
+ ... e.file.core.windows.net\assignmentfile /user:nisanozstorage <3mTbiksd ...
+ ~
The '<' operator is reserved for future use.
+ CategoryInfo : ParserError: (:) [], ParentContainsErrorRecordException
+ FullyQualifiedErrorId : RedirectionNotSupported
PS C:\Windows\system32> net use Z: \\nisanozstorage.file.core.windows.net\assignmentfile /user:nisanozstorage 3mTbiksdhB
zcF6eP1/Hh0Oqm5iifTFUjcKgLkG6XDa66SmtWHFcOhUsqEDdUdfwf9I6+eM90+L2j+ASt0zfsNQ== /persistent:yes
System error 85 has occurred.
The local device name is already in use.
PS C:\Windows\system32> net use Z: /delete
Z: was deleted successfully.
PS C:\Windows\system32> net use Z: \\nisanozstorage.file.core.windows.net\assignmentfile /user:nisanozstorage 3mTbiksdhB
zcF6eP1/Hh0Oqm5iifTFUjcKgLkG6XDa66SmtWHFcOhUsqEDdUdfwf9I6+eM90+L2j+ASt0zfsNQ== /persistent:yes
The command completed successfully.
PS C:\Windows\system32>
Windows'u Etkinleştir
Windows'u etkinleştirmek için Ayarlar'a gidin.


NisanOz-vm - 48.209.8.85:3389 - Uzak Masaüstü Bağlantısı
Recycle Bin
Microsoft Edge
Server Manager
Server Manager • Dashboard
Manage
Tools
View
Help
Dashboard
Local Server
All Servers
File and Storage Services
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: 1 | Server groups: 1 | Servers total: 1
File and Storage Services 1
Manageability
Events
Performance
BPA results
Local Server 1
Manageability
Events
Services
Performance
BPA results
All Servers 1
Manageability
Events
Services
Performance
BPA results
Windows'u Etkinleştir
Windows'u etkinleştirmek için


NisanOz-vm - 48.209.8.85:3389 - Uzak Masaüstü Bağlantısı
This PC
Search This PC
New
Sort
View
Home
Gallery
Desktop
Downloads
Documents
Pictures
Music
Videos
This PC
Network
Devices and drives
Windows (C:)
111 GB free of 126 GB
Temporary Storage (D:)
14.0 GB free of 15.9 GB
DVD Drive (E:)
Network locations
assignmentfile
(\\nisanozstorage.file.core.windo...
Windows'u Etkinleştir
Windows'u etkinleştirmek için Ayarlar'a gidin.