

RRAS ve VPN

Umut GEÇER

İçerik:

- 1) RRAS**
- 2) RRAS Üzerinden VPN Oluşturma**
- 3) VPN ile Ortak Dosya Oluşturma (Shared Folder)**

Windows Server 2016 kurduk; external ve internal olmak üzere iki NIC oluşturduk.

Internal kartımıza statik IP verdik.

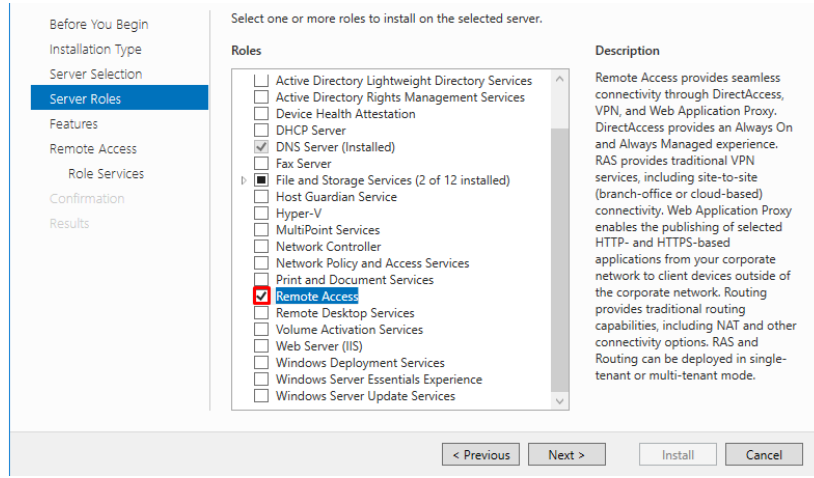
PC adını değiştirdik: Umüt

Server Manager > AD Domain Services özelliği yükledik.

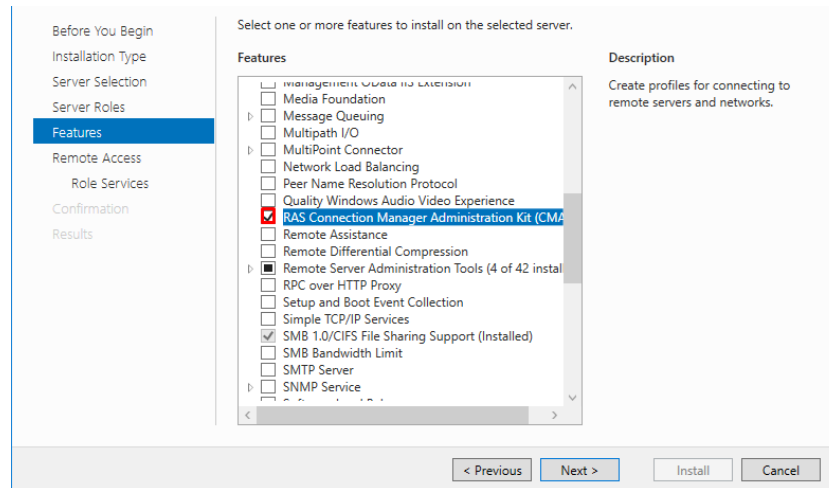
Domain'imizi oluştururuz: umut.local benim domain'imın ismi.

NetBIOS Domain name: umutumut

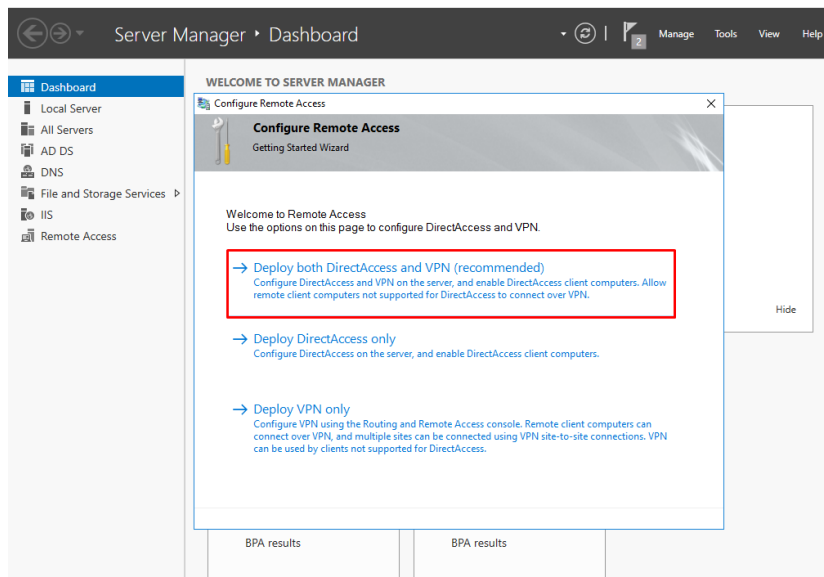
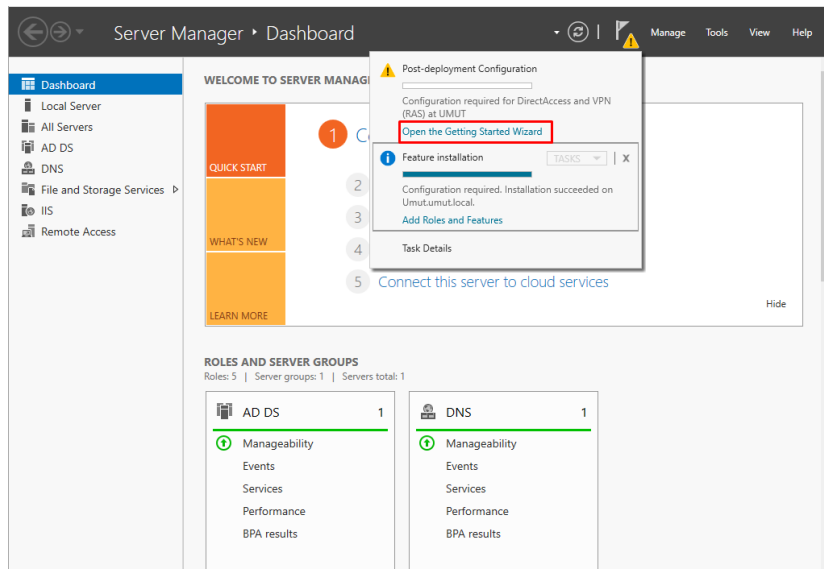
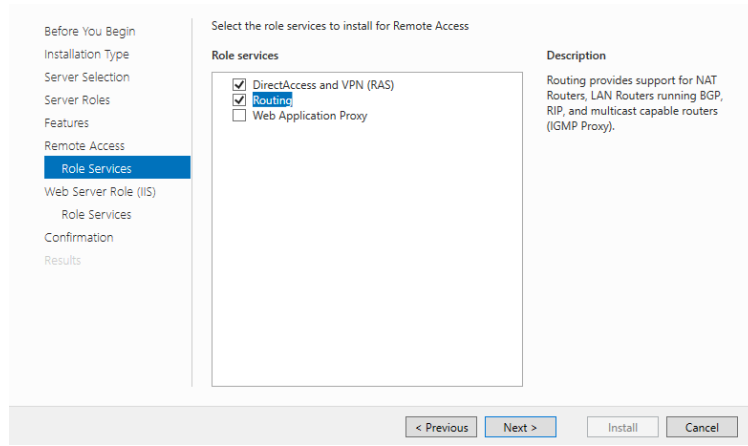
Sanal cihazımız DC yapılır.



Remote Access rolü eklenir



RAS CMAC özelliği eklenir.



Remote Access konfigürasyonuna başlarız.

Configure Remote Access

Remote Access Server Setup

Configure DirectAccess and VPN settings.

Select the network topology of the server.

☐ Edge

☒ Behind an edge device (with two network adapters)

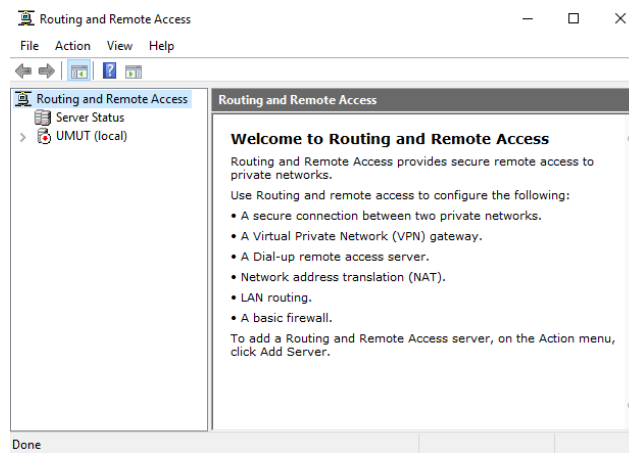
☐ Behind an edge device (with a single network adapter)

In this topology, the Remote Access server is deployed behind an edge firewall or device, and is configured with two adapters. One adapter is connected to the internal network. The other is connected to the perimeter network.

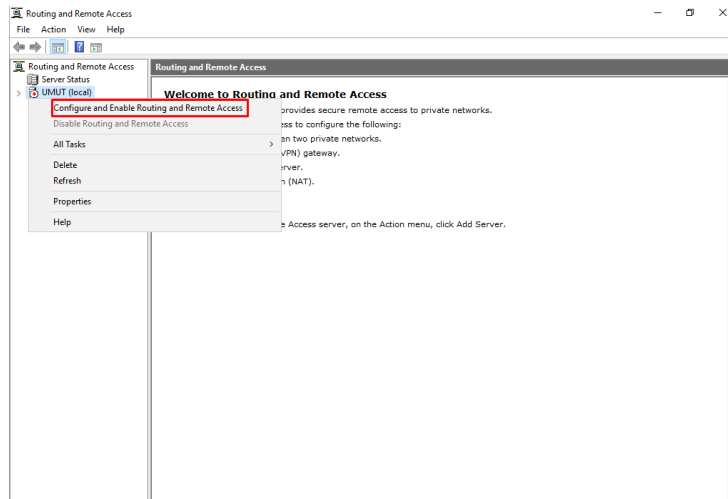
Type the public name or IPv4 address used by clients to connect to the Remote Access server:

< Back Next > Finish Cancel

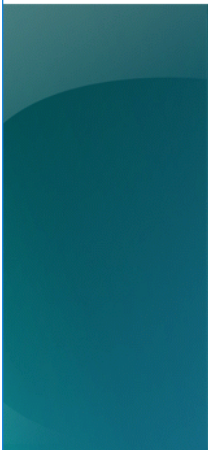
Bu pencere açıldı. External IP'mizi yazdık kabul etmedi.



Tools>routing and remote access dedik.



Routing and Remote Access Server Setup Wizard



Welcome to the Routing and Remote Access Server Setup Wizard

This wizard helps you set up your server so that you can connect to other networks and allow connections from remote clients.

To continue, click Next.

< Back Next > Cancel

RRAS kurulumunu gerçekleştiririz.

Routing and Remote Access Server Setup Wizard

Configuration

You can enable any of the following combinations of services, or you can customize this server.

- ☒ Remote access (dial-up or VPN)
Allow remote clients to connect to this server through either a dial-up connection or a secure virtual private network (VPN) Internet connection.
- ☐ Network address translation (NAT)
Allow internal clients to connect to the Internet using one public IP address.
- ☐ Virtual private network (VPN) access and NAT
Allow remote clients to connect to this server through the Internet and local clients to connect to the Internet using a single public IP address.
- ☐ Secure connection between two private networks
Connect this network to a remote network, such as a branch office.
- ☐ Custom configuration
Select any combination of the features available in Routing and Remote Access.

< Back Next > Cancel

Routing and Remote Access Server Setup Wizard

Remote Access

You can set up this server to receive both dial-up and VPN connections.

- ☒ VPN
A VPN server (also called a VPN gateway) can receive connections from remote clients through the Internet.
- ☐ Dial-up
A dial-up remote access server can receive connections directly from remote clients through dial-up media, such as a modem.

< Back Next > Cancel

Routing and Remote Access Server Setup Wizard

VPN Connection

To enable VPN clients to connect to this server, at least one network interface must be connected to the Internet.

Select the network interface that connects this server to the Internet.

Network interfaces:

Name	Description	IP Address
Ethernet	Microsoft Hyper-V Netw...	192.168.53.126 (DHCP)
Ethernet 2	Microsoft Hyper-V Netw...	172.16.16.16

☒ Enable security on the selected interface by setting up static packet filters.
Static packet filters allow only VPN traffic to gain access to this server through the selected interface.

< Back

Next >

Cancel

WAN IP'mizin DHCP'den aldığı IP'yi, bu sefer statik olarak ayarlamayı unutmayalım.

Routing and Remote Access Server Setup Wizard

IP Address Assignment

You can select the method for assigning IP addresses to remote clients.

How do you want IP addresses to be assigned to remote clients?

☐ Automatically

If you use a DHCP server to assign addresses, confirm that it is configured properly.
If you do not use a DHCP server, this server will generate the addresses.

☒ From a specified range of addresses

< Back

Next >

Cancel

Routing and Remote Access Server Setup Wizard

Address Range Assignment

You can specify the address ranges that this server will use to assign addresses to remote clients.

Enter the address ranges (static pools) that you want to use. This server will assign all of the addresses in the first range before continuing to the next.

Address ranges:

From	To	Number
172.16.16.1	172.16.16.254	254

New...

Edit...

Delete

< Back

Next >

Cancel

Kullanmak istediğimiz IP aralığını belirtiriz.

Routing and Remote Access Server Setup Wizard

Managing Multiple Remote Access Servers

Connection requests can be authenticated locally or forwarded to a Remote Authentication Dial-In User Service (RADIUS) server for authentication.

Although Routing and Remote Access can authenticate connection requests, large networks that include multiple remote access servers often use a RADIUS server for central authentication.

If you are using a RADIUS server on your network, you can set up this server to forward authentication requests to the RADIUS server.

Do you want to set up this server to work with a RADIUS server?

☒ No, use Routing and Remote Access to authenticate connection requests

☐ Yes, set up this server to work with a RADIUS server

< Back Next > Cancel

Routing and Remote Access Server Setup Wizard

Completing the Routing and Remote Access Server Setup Wizard

You have successfully completed the Routing and Remote Access Server Setup Wizard.

Summary:

Routing and Remote Access

To support the relaying of DHCP messages from remote access clients, you must configure the properties of the DHCP Relay Agent with the IP address of your DHCP server.

OK Help

To close this wizard, click Finish.

< Back Finish Cancel

Server Manager Dashboard

WELCOME TO SERVER MANAGER

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

ROLES AND SERVER GROUPS

Roles: 5 | Server groups: 1 | Servers total: 1

AD DS 1

Manageability

Events

Services

Performance

BPA results

DNS

Manageability

Events

Services

Performance

BPA results

Active Directory Administrative Center

Active Directory Domains and Trusts

Active Directory Module for Windows PowerShell

Active Directory Sites and Services

Active Directory Users and Computers

ADSI Edit

Component Services

Computer Management

Connection Manager Administration Kit

Defragment and Optimize Drives

Disk Cleanup

DNS

Event Viewer

Group Policy Management

Internet Information Services (IIS) Manager

ISCSI Initiator

Local Security Policy

Microsoft Azure Services

Network Policy Server

ODBC Data Sources (32-bit)

ODBC Data Sources (64-bit)

Performance Monitor

Print Management

Remote Access Management

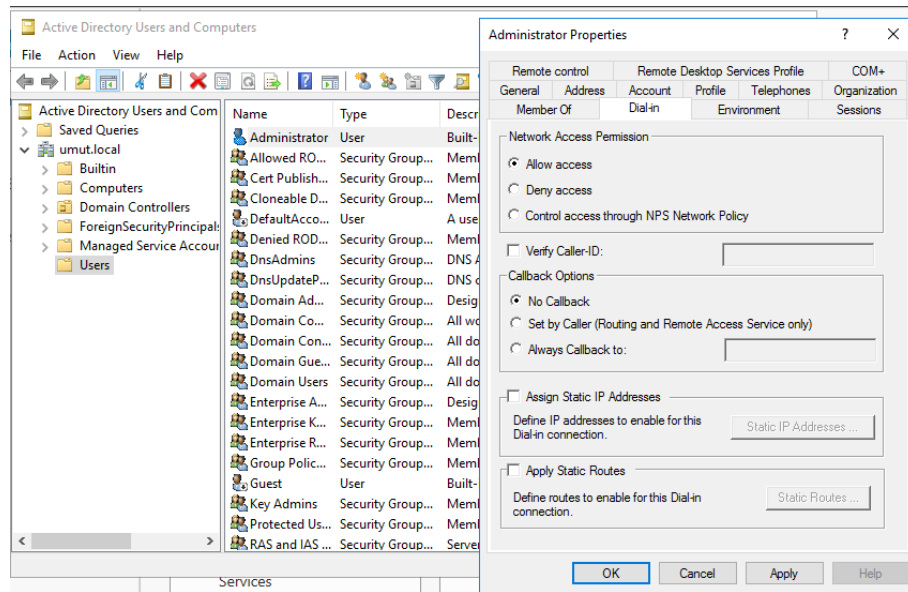
Resource Monitor

Routing and Remote Access

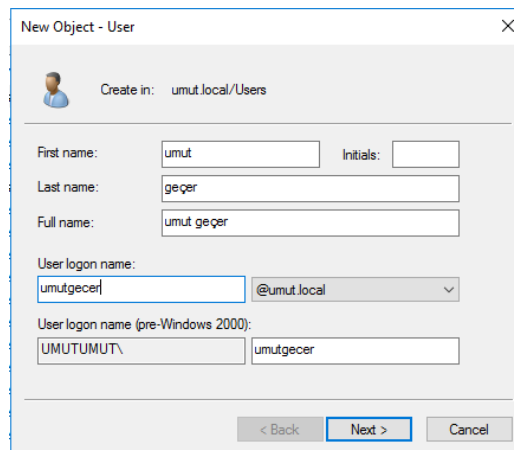
Services

System Configuration

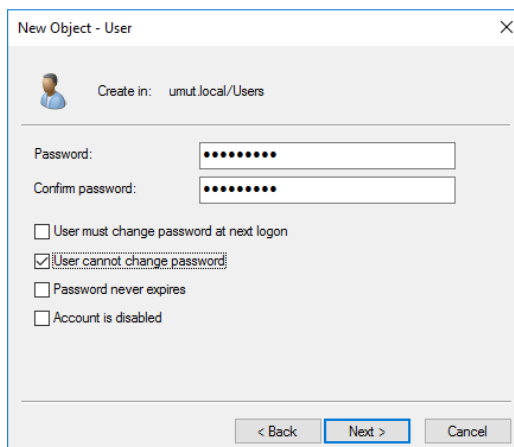
System Information

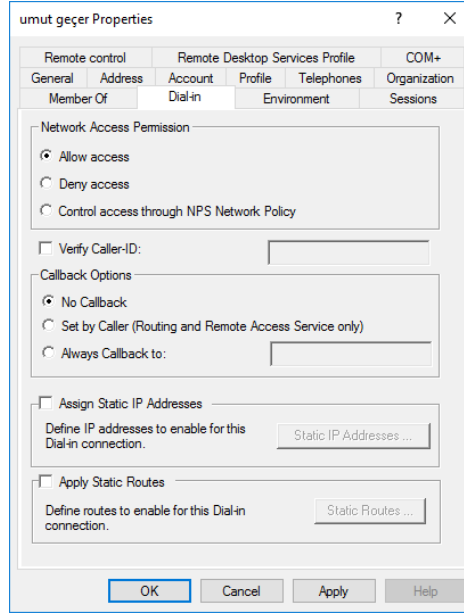


Users > sağ tık > properties > dial-in > allow access > OK

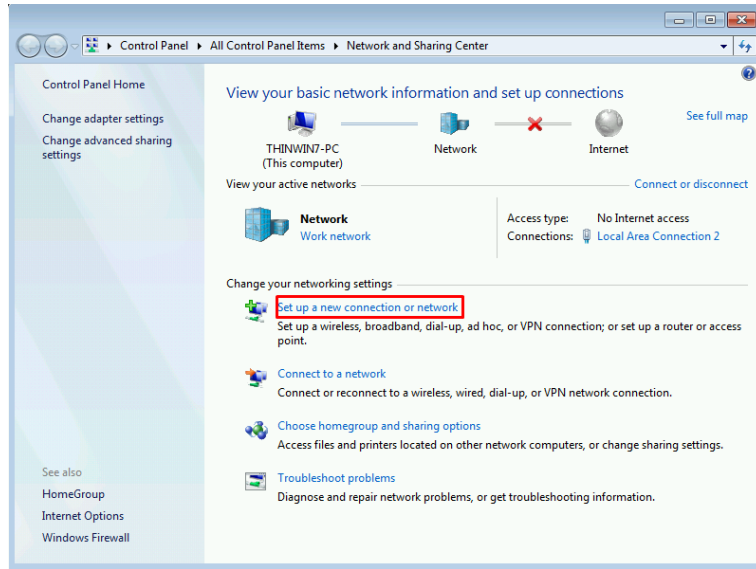


User > new >

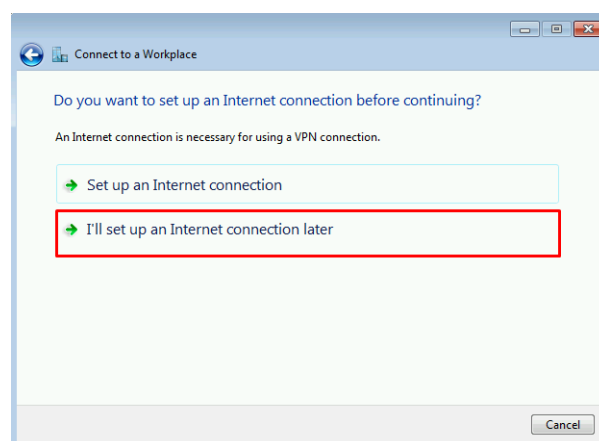
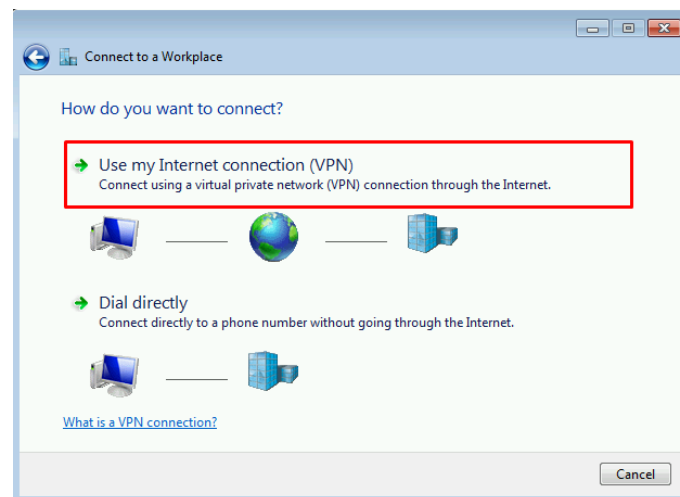
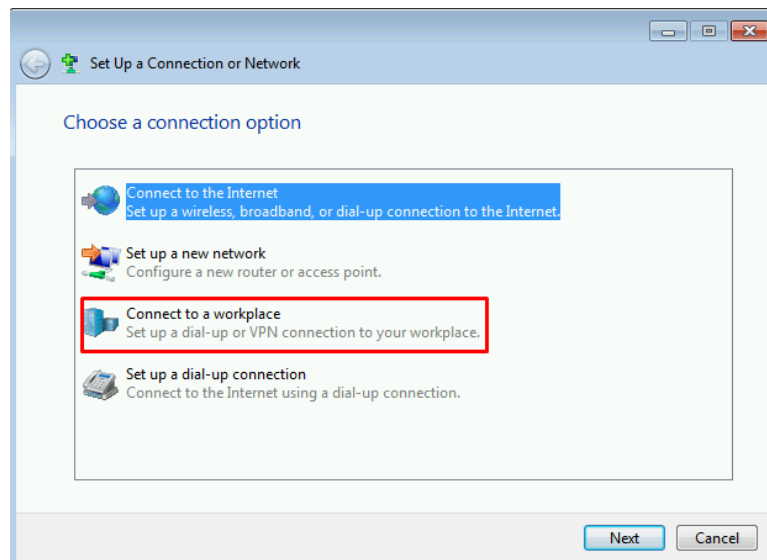




Admin'e verdigimiz yetkileri user'a da veririz.



Thin Client zerinde sadece 1 NIC var o da external. İnternete ıkarız.



Connect to a Workplace

Type the Internet address to connect to

Your network administrator can give you this address.

Internet address: 192.168.53.126

Destination name: VPN Connection

☐ Use a smart card

☐ Allow other people to use this connection
This option allows anyone with access to this computer to use this connection.

☒ Don't connect now; just set it up so I can connect later

Next Cancel

WS2016'nın WAN adresini yazarız.

Connect to a Workplace

Type your user name and password

User name: Administrator

Password: ••••••••

☐ Show characters

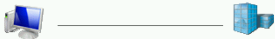
☒ Remember this password

Domain (optional): UMUT.LOCAL

Create Cancel

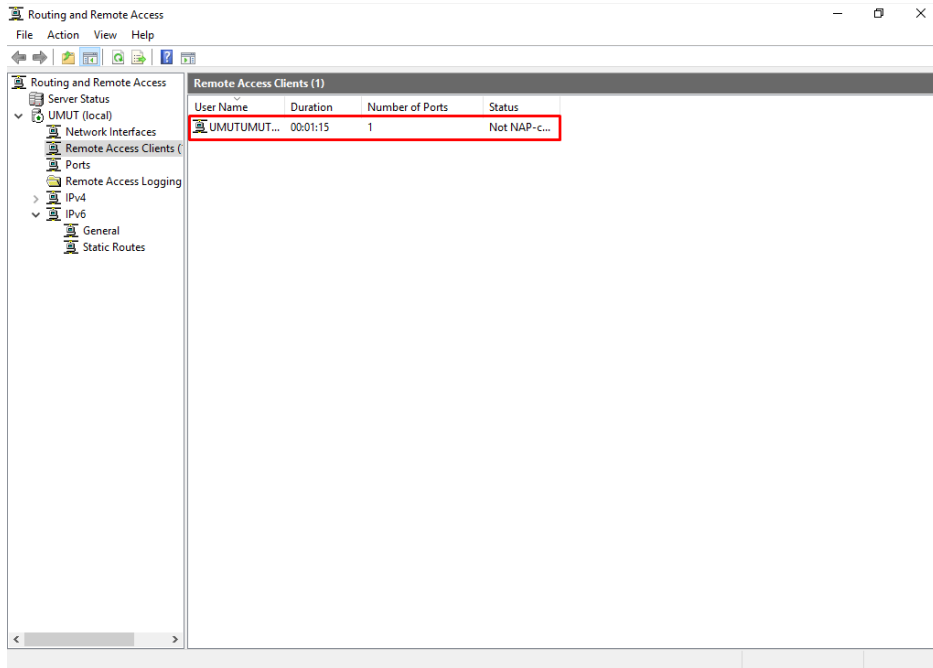
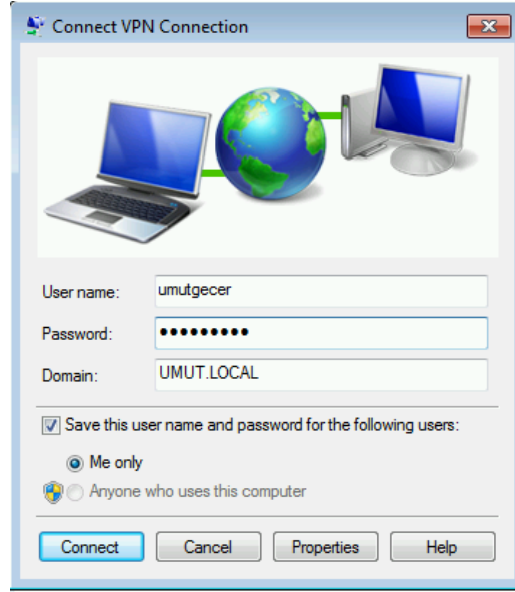
Connect to a Workplace

The connection is ready to use

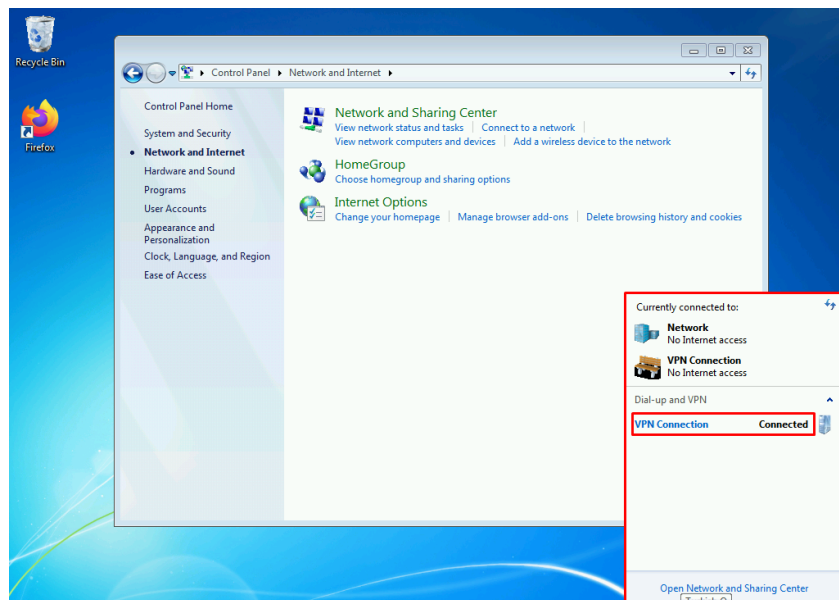
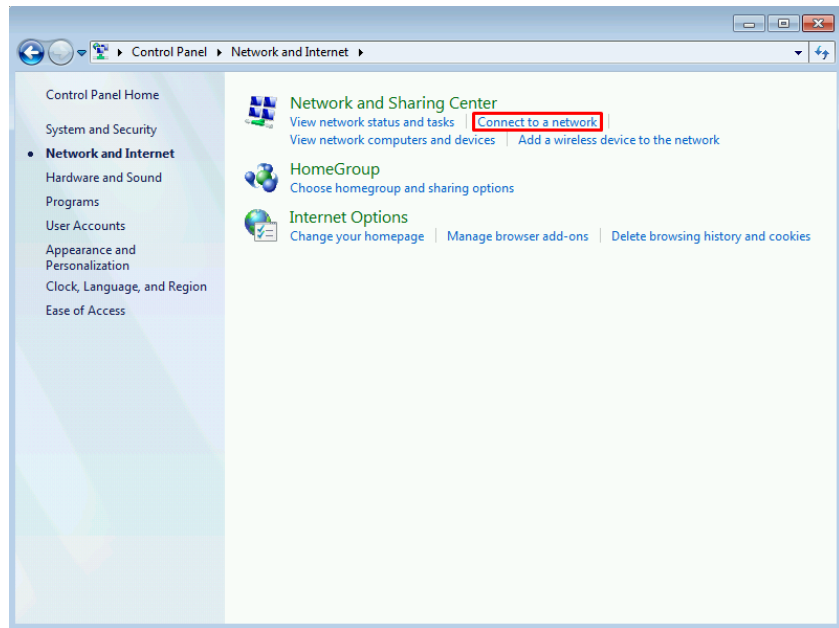


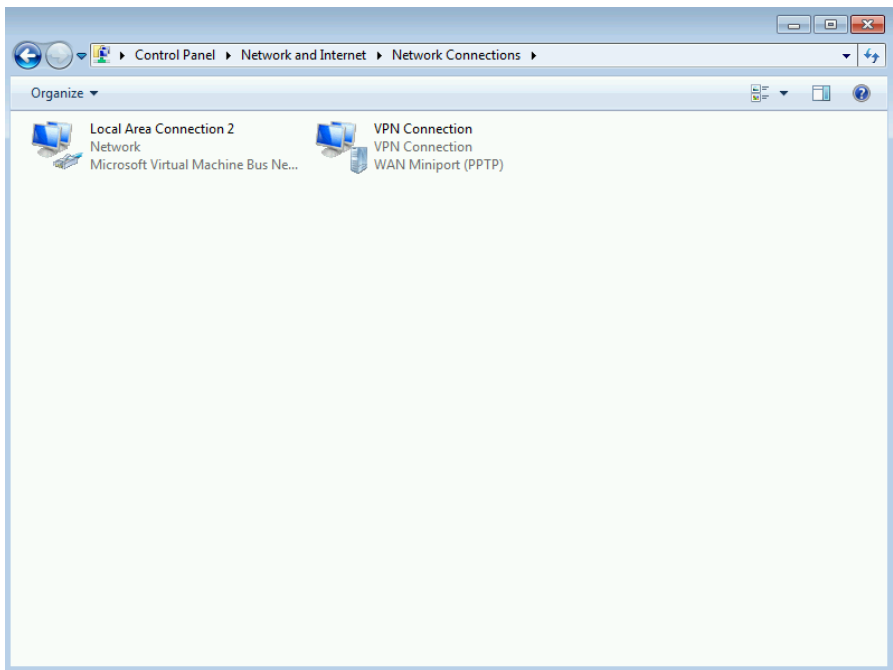
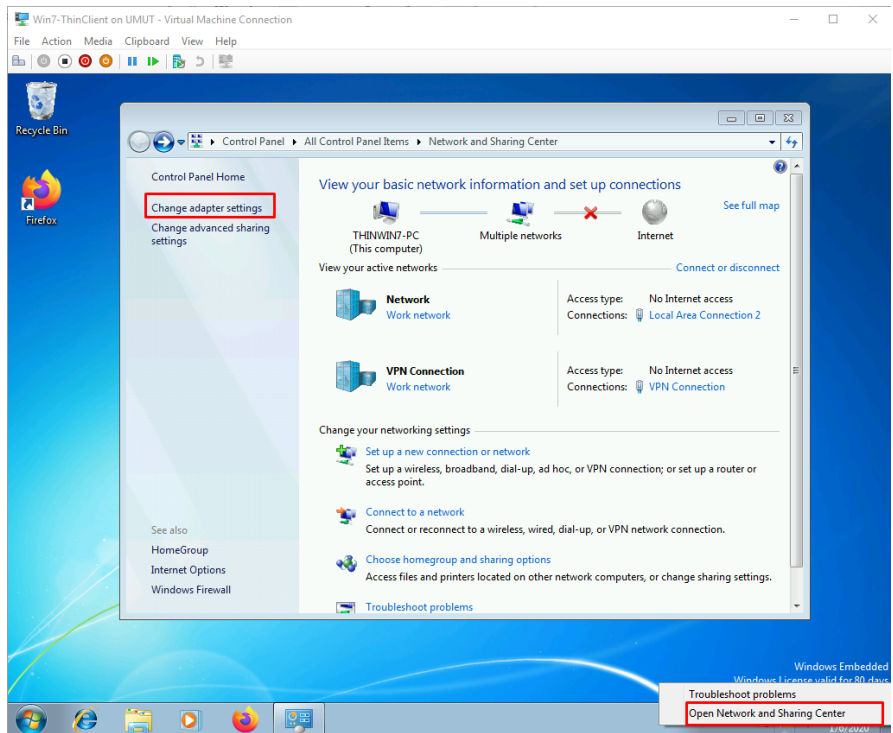
You need to set up an Internet connection before you can connect.

Close

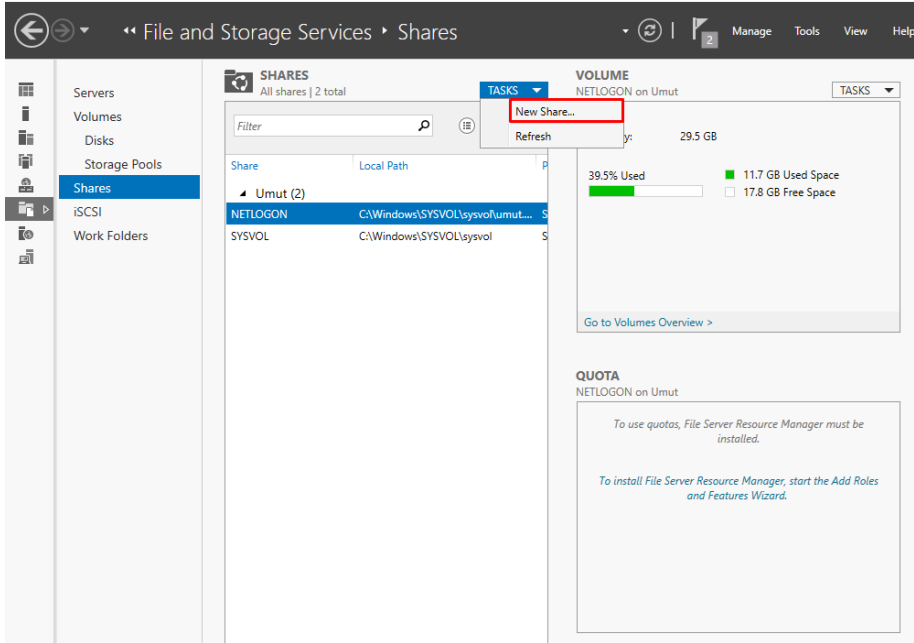
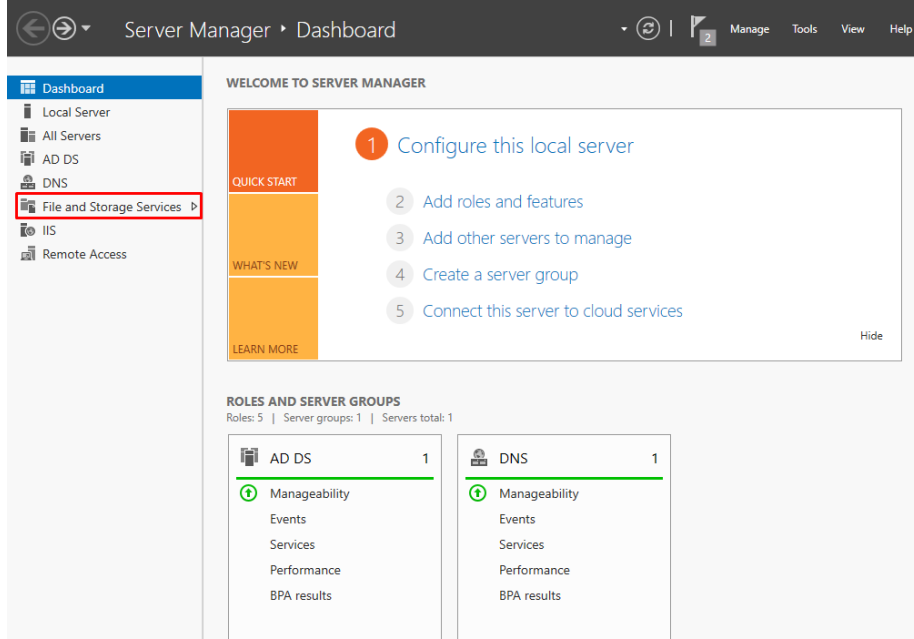


WS2016 AD'de oluşturduğumuz user ile Thin Client arası VPN bağlantısı sağladık. Veee WS2016'dan baktığımızda, bu bağlantının listelendiğini görürüz.





VPN ile Ortak Dosya Oluřturma (Shared Folder)



New Share Wizard

Select the profile for this share

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

File share profile:

SMB Share - Quick

SMB Share - Advanced

SMB Share - Applications

NFS Share - Quick

NFS Share - Advanced

Description:

This basic profile represents the fastest way to create an SMB file share, typically used to share files with Windows-based computers.

- Suitable for general file sharing
- Advanced options can be configured later by using the Properties dialog

< Previous Next > Create Cancel

Sonra iki kez next

New Share Wizard

Specify share name

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Share name: Paylasimli klasor

Share description: umut geceri

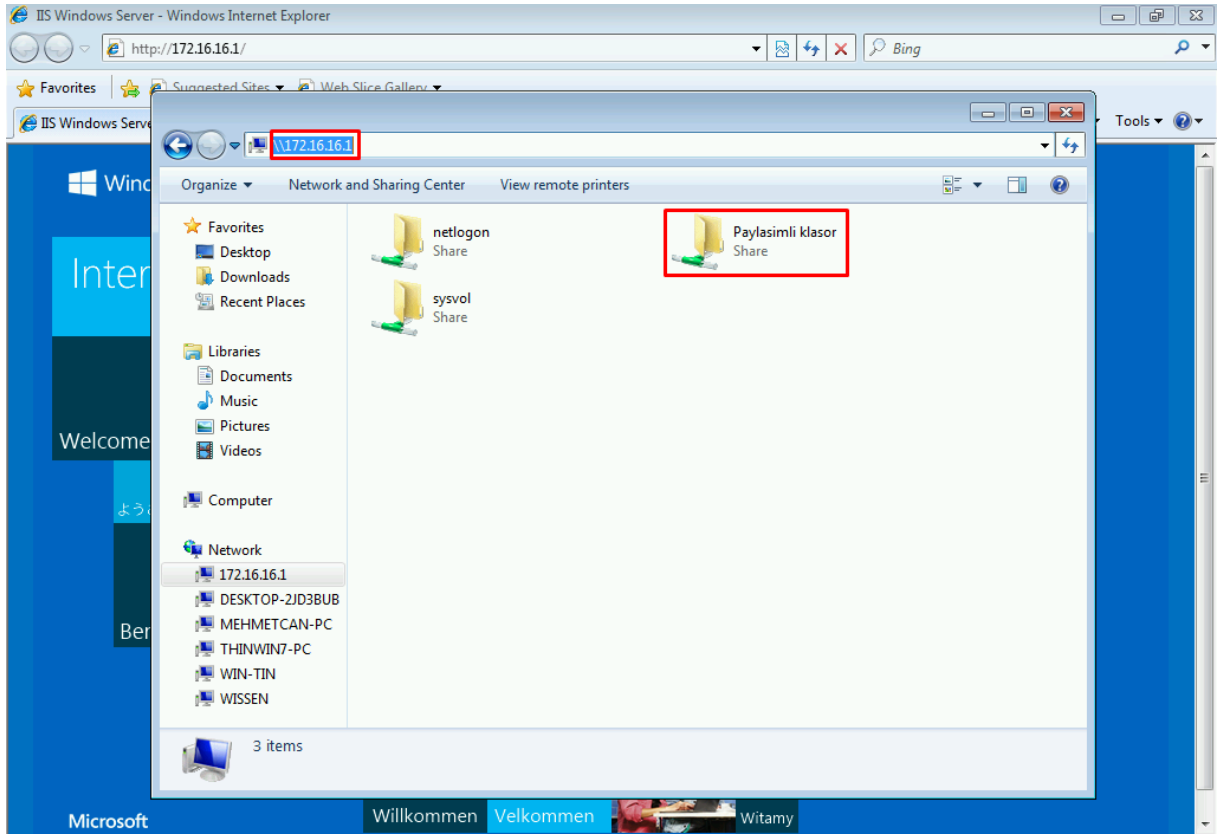
Local path to share: C:\Shares\Paylasimli klasor

ⓘ If the folder does not exist, the folder is created.

Remote path to share: \\Umut\Paylasimli klasor

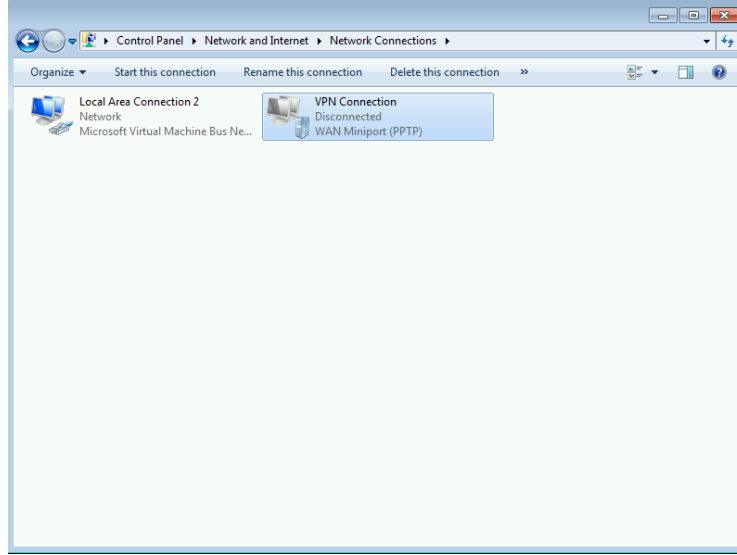
< Previous Next > Create Cancel

Next, next, create dedik.

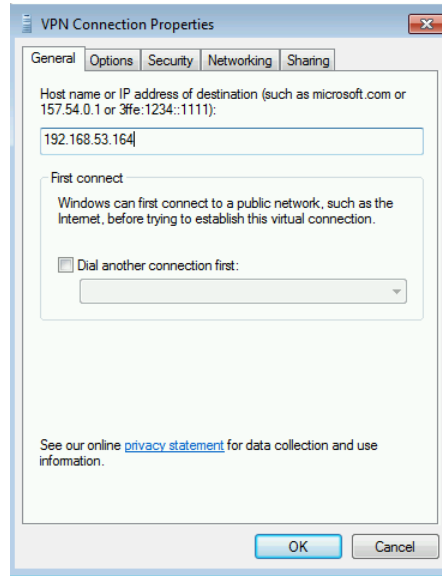


Thin client'ımızdan görev çubuğuna, WS2016 sunucumuzun External IP'sini yazdık. İlk deneyište IIS açıldı, ikinci de ise paylaşimli klasörü gördük.

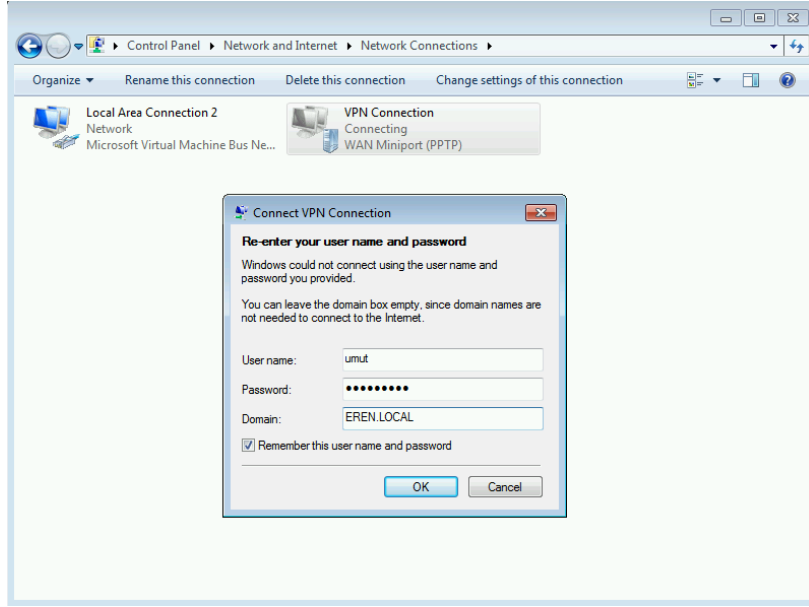
Thin Client'tan VPN bağlantısı için kullanıcı adı şifre girerken Admin ile giriş yaptık. Paylaşım klasörü üzerinde Admin yetkisi ne kadarsa o kadar işlem yapabiliriz.



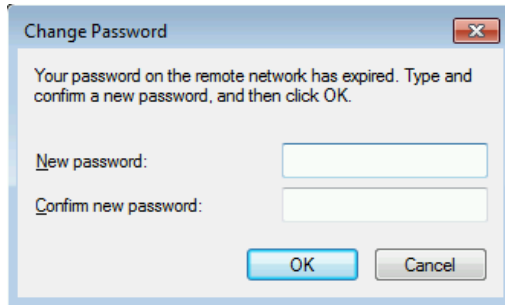
Vpn bağlantımızı disconnect ettik > sağ tık > properties



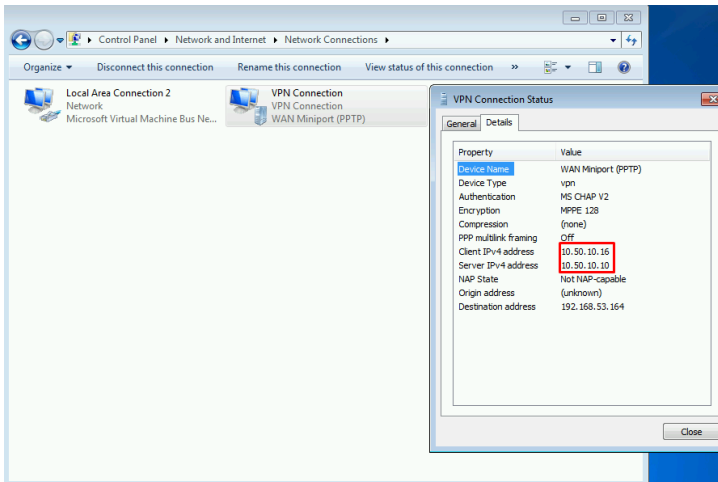
Eren'in PC'sinin IP'sini yazdık. Eren orda beni user olarak oluşturdu ve allow access izni verdi.



Eren'in beni oluşturduğu user ismi, password'ü ve Eren'in domain ismiyle giriş yaptım.



Şifreyi değiştirdim.



VPN sağ tık > Details > Eren'in Internal ağını görmüş oluruz.

