



01/04 WindowServer AD DS

제목

WinServer

가상 머신 이름과 운영 체제

새 가상 머신을 나타내는 이름과 저장할 대상 폴더를 선택하십시오. 입력한 이름은 VirtualBox에서 가상 머신을 식별하는 데 사용됩니다. 게스트 운영 체제를 설치할 때 사용할 ISO 이미지를 추가로 선택할 수 있습니다.

이름(N): WinServer

폴더(F): C:\Users\Wmzc\VirtualBox VMs

ISO 이미지(I): D:\SERVER_EVAL_x64FRE_en-us.iso

에디션(E): Windows Server 2022 Standard Evaluation (10.0.20348.587 / x64 / en-US)

종류(T): Microsoft Windows

버전(V): Windows 2022 (64-bit)

☒ 무인 설치 건너뛰기(S)

무인 게스트 운영 체제 설치를 건너뛰기로 선택했습니다. 게스트 운영 체제를 직접 설치해야 합니다.

전문가 모드(E) 이전(B) 다음(N) 취소(C)

하드웨어

RAM 용량이나 가상 CPU 개수를 변경하여 가상 머신의 하드웨어를 변경할 수 있습니다. EFI를 활성화할 수도 있습니다.

기본 메모리(M): 4096 MB

프로세서(P): CPU 1개

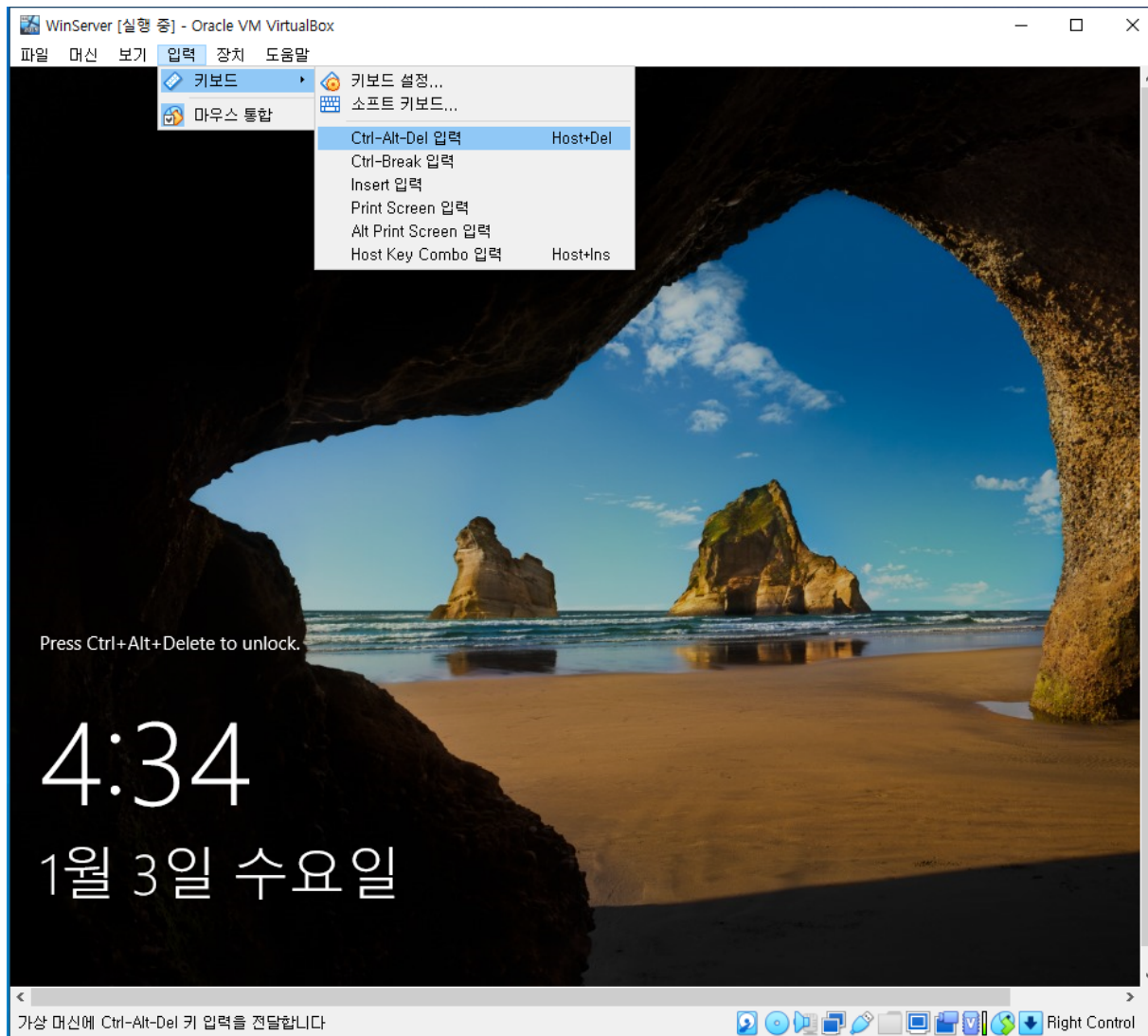
☐ EFI 활성화(지원하는 운영 체제만)(E)

Customize settings

Type a password for the built-in administrator account that you can use to sign in to this computer.

User name	<input type="text" value="Administrator"/>
Password	<input type="password"/>
Reenter password	<input type="password"/>

P@ssw0rd



Windows Server

AD(Active Directory) 서비스

네트워크 상에 존재하는 사용자, 그룹, 컴퓨터 및 다른 개체들에 대한 정보를 저장하고 이러한 정보를 사용자와 컴퓨터가 사용할 수 있도록 하기 위한 기능

DS(도메인 서비스) 까지 사용하여 네트워크와 사용자, 컴퓨터가 그들에게 허용된 네트워크 자원에 접근할 수 있도록 접근 제한을 하기 위해 사용.

AWS IAM

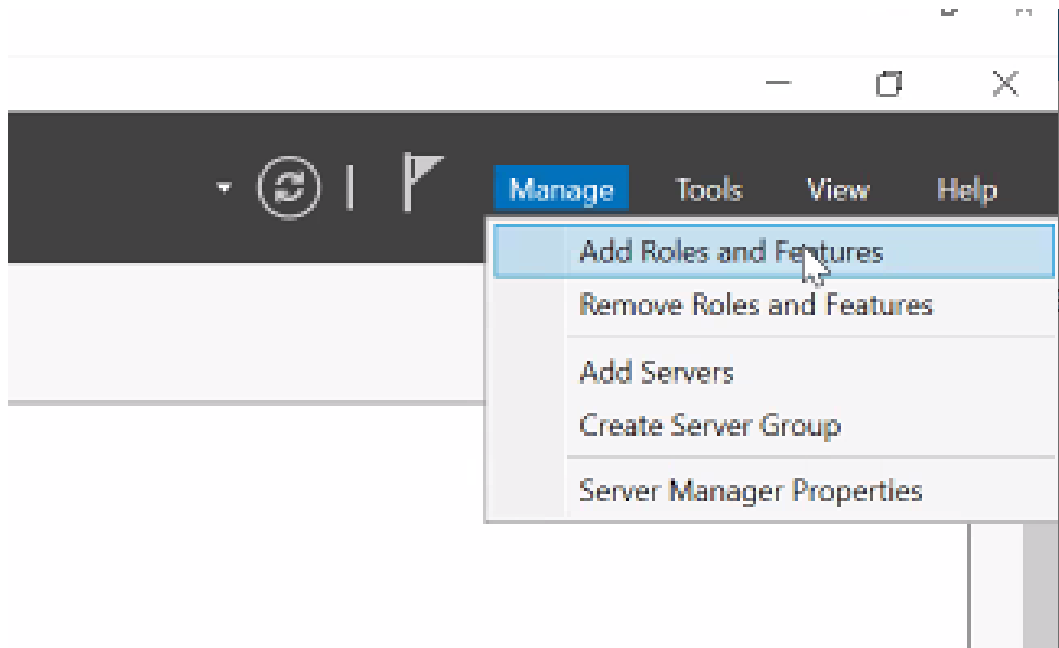
Windows Server

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AWS IAM 기능과 유사하다고 볼 수 있으니 나중에 주의깊게 보기



Subnetwork 1	172.16.10.0/24		
Gateway	172.16.10.254		
DHCP	172.16.10.253		
Subnetwork2	172.16.20.0/24		
Gateway	172.16.20.254		
DHCP	172.16.20.253		
WebServer	172.16.10.10	domain.com	www.domain.com
	172.16.10.20	shop.domain.com	
DNS	172.16.xxx.xxx		
Window Server	172.16.20.250		

```

C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::510c:d210:a0ee:b03b%5
    IPv4 Address. . . . . : 172.16.20.250
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 172.16.20.254

C:\Users\Administrator>

```

Add Roles and Features Wizard

Select destination server

DESTINATION SERVER
WIN-DUL015EP7GH

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool
☐ Select a virtual hard disk

Server Pool

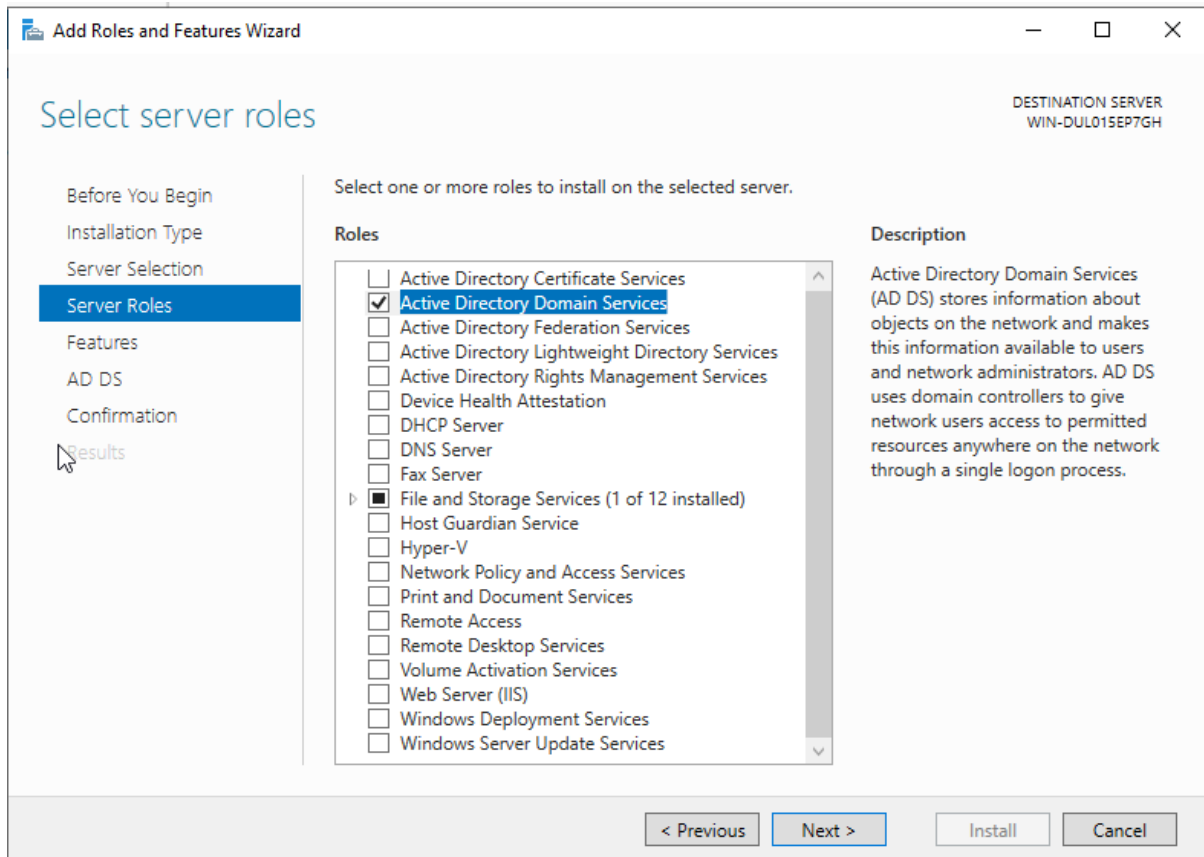
Filter:

Name	IP Address	Operating System
WIN-DUL015EP7GH	172.16.20.250	Microsoft Windows Server 2022 Standard Evaluation

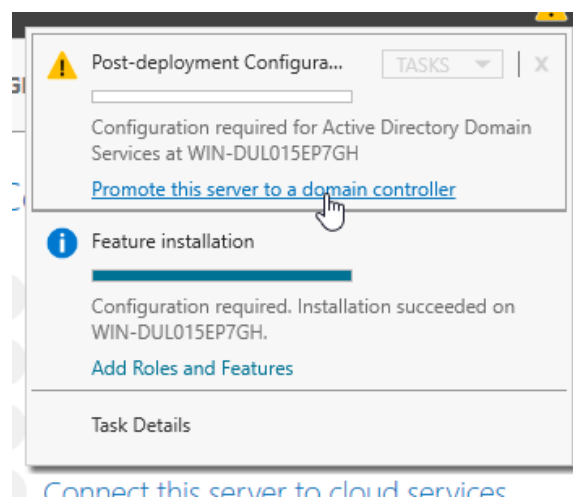
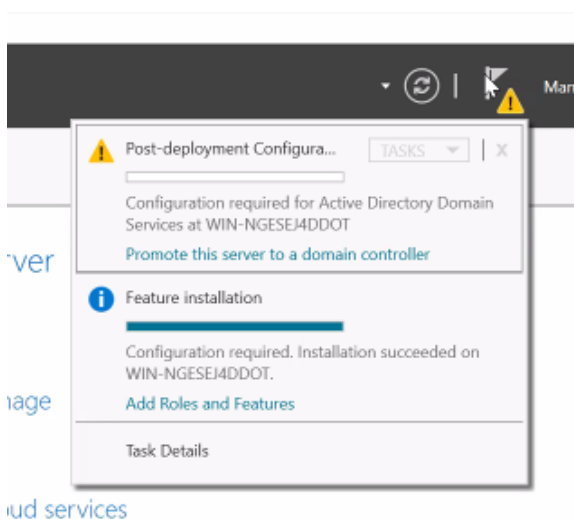
1 Computer(s) found

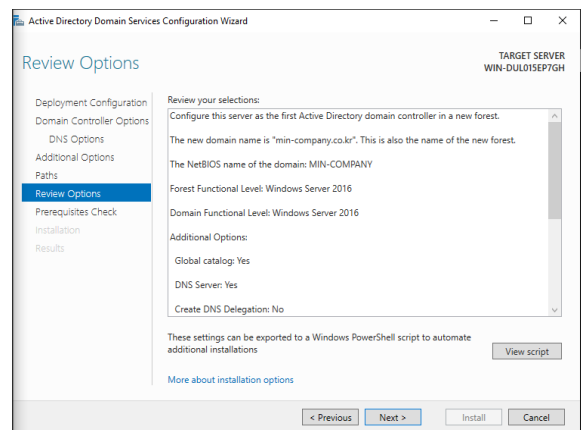
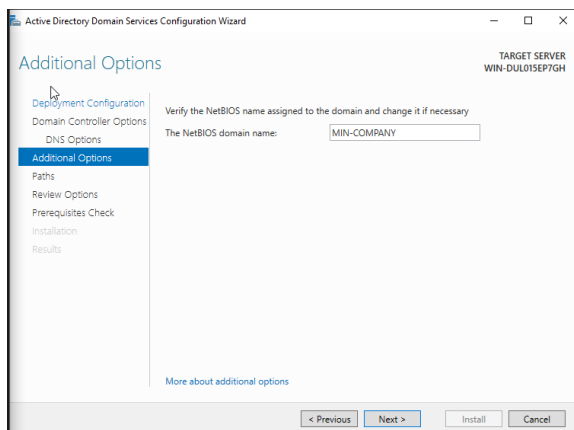
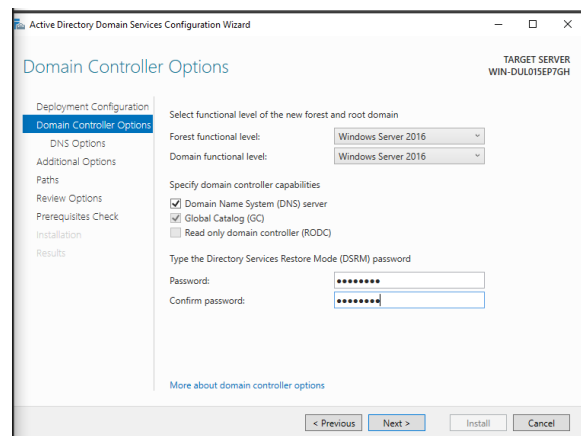
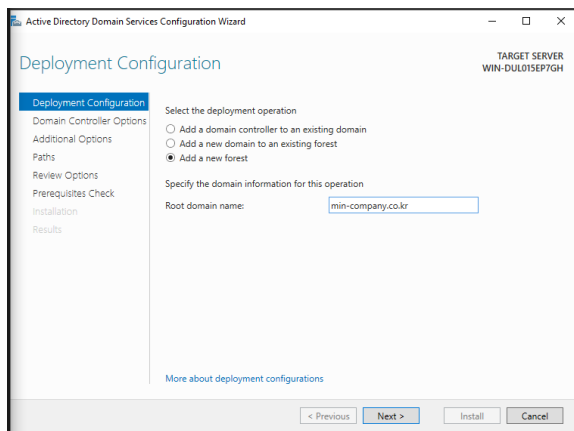
This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

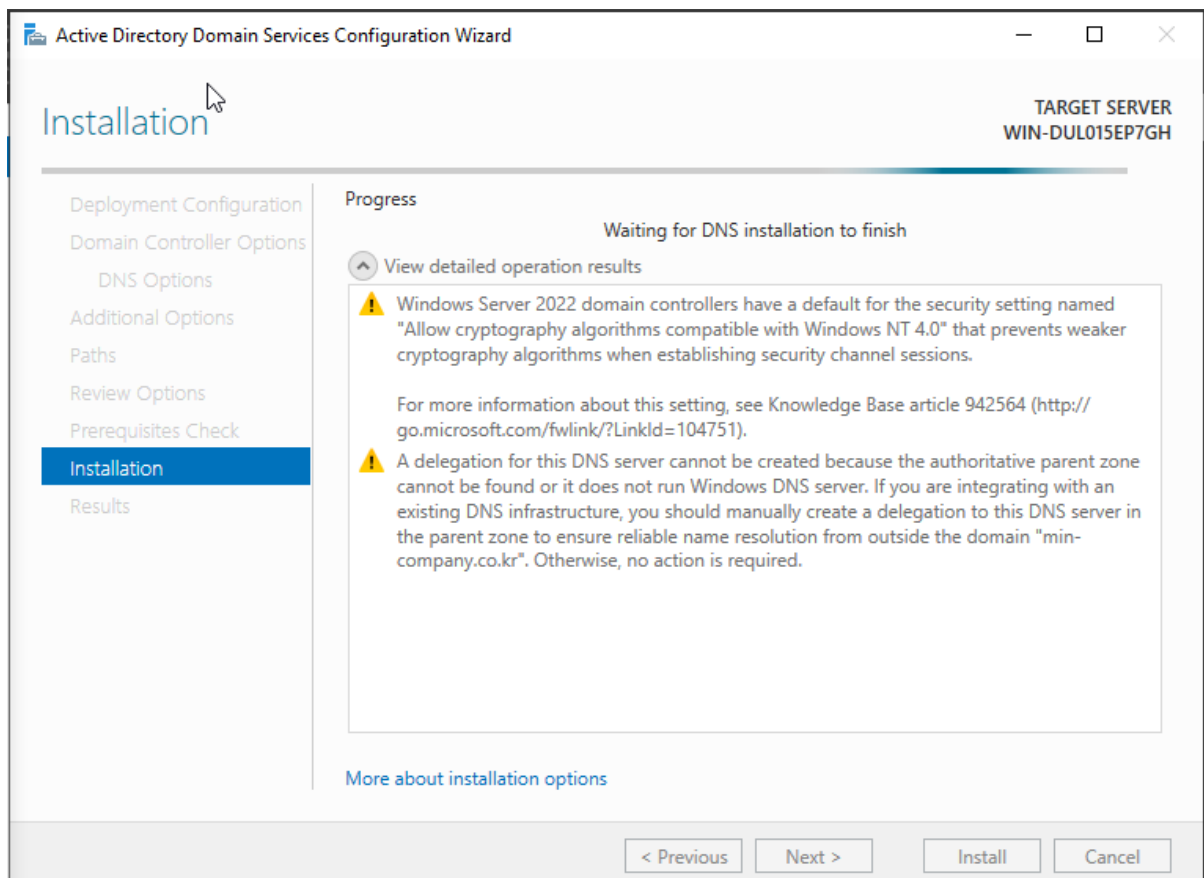
< Previous Next > Install Cancel

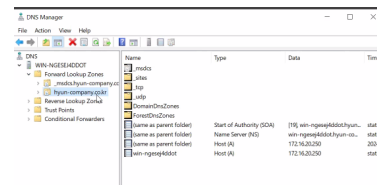
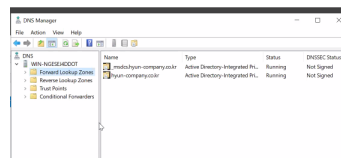
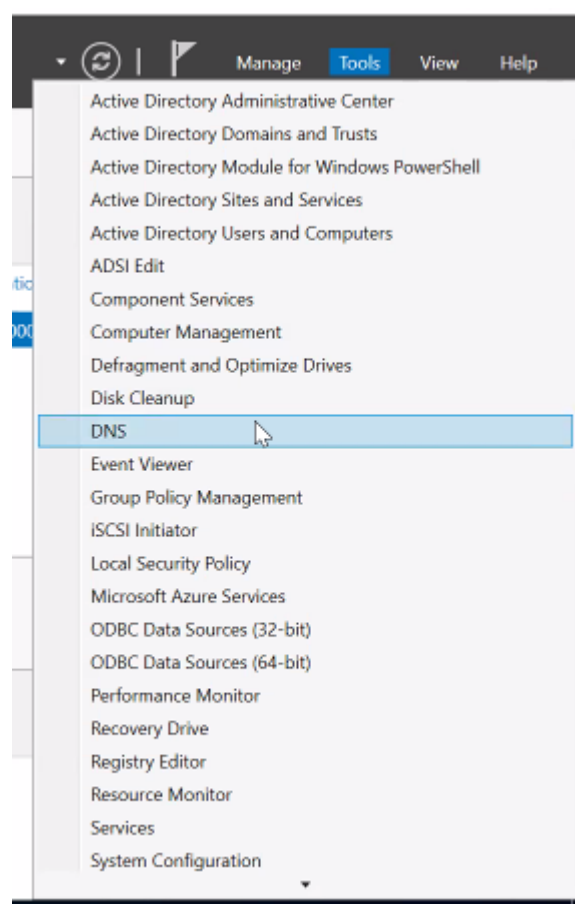
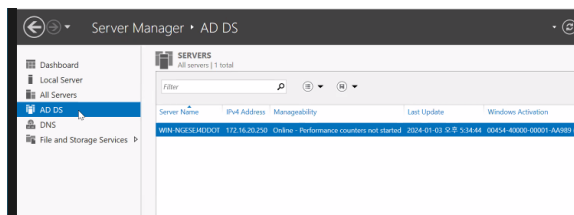
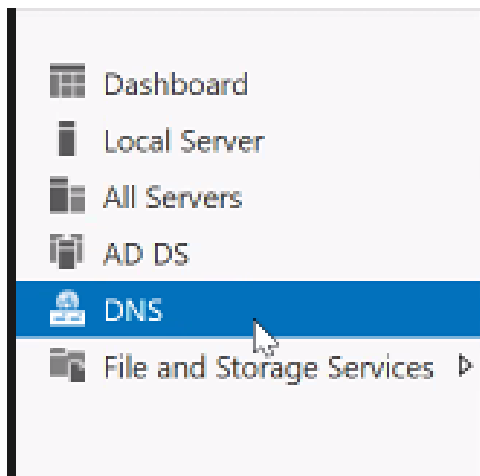


AD DS 기능 할 수 있도록 해주는 거고
설정은 이후에 할 수 있도록 해줄 겁니다!









Window Desk

이 컴퓨터가 AD 에 등록이 되어야 한다

네트워크 통신할 수 있는 환경을 만들어 줘야 해서 어댑터 2번해준거고

windows에서도 네트워크 설정 변경해줘야해

dhcp 있으면 알아서 해주지만 잘 안맞아서 → 직접 주소를 넣어주려고 함

ad 에 dns 사용할 수 있도록

인터넷 프로토콜 버전 4(TCP/IPv4) 속성

일반

네트워크가 IP 자동 설정 기능을 지원하면 IP 설정이 자동으로 할당되도록 할 수 있습니다. 지원하지 않으면, 네트워크 관리자에게 적절한 IP 설정값을 문의해야 합니다.

☐ 자동으로 IP 주소 받기(O)

☒ 다음 IP 주소 사용(S):

IP 주소(I):	172 . 16 . 20 . 10
서브넷 마스크(U):	255 . 255 . 255 . 0
기본 게이트웨이(D):	172 . 160 . 20 . 254

☐ 자동으로 DNS 서버 주소 받기(B)

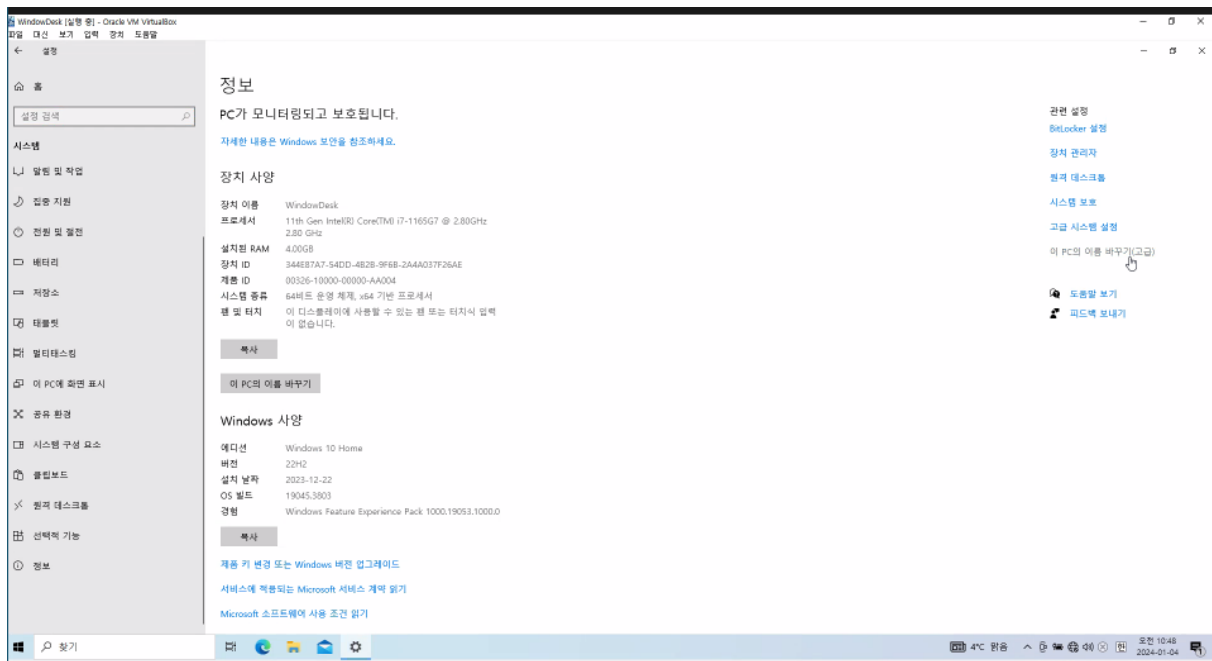
☒ 다음 DNS 서버 주소 사용(E):

기본 설정 DNS 서버(P):	172 . 16 . 20 . 250
보조 DNS 서버(A):	. . .

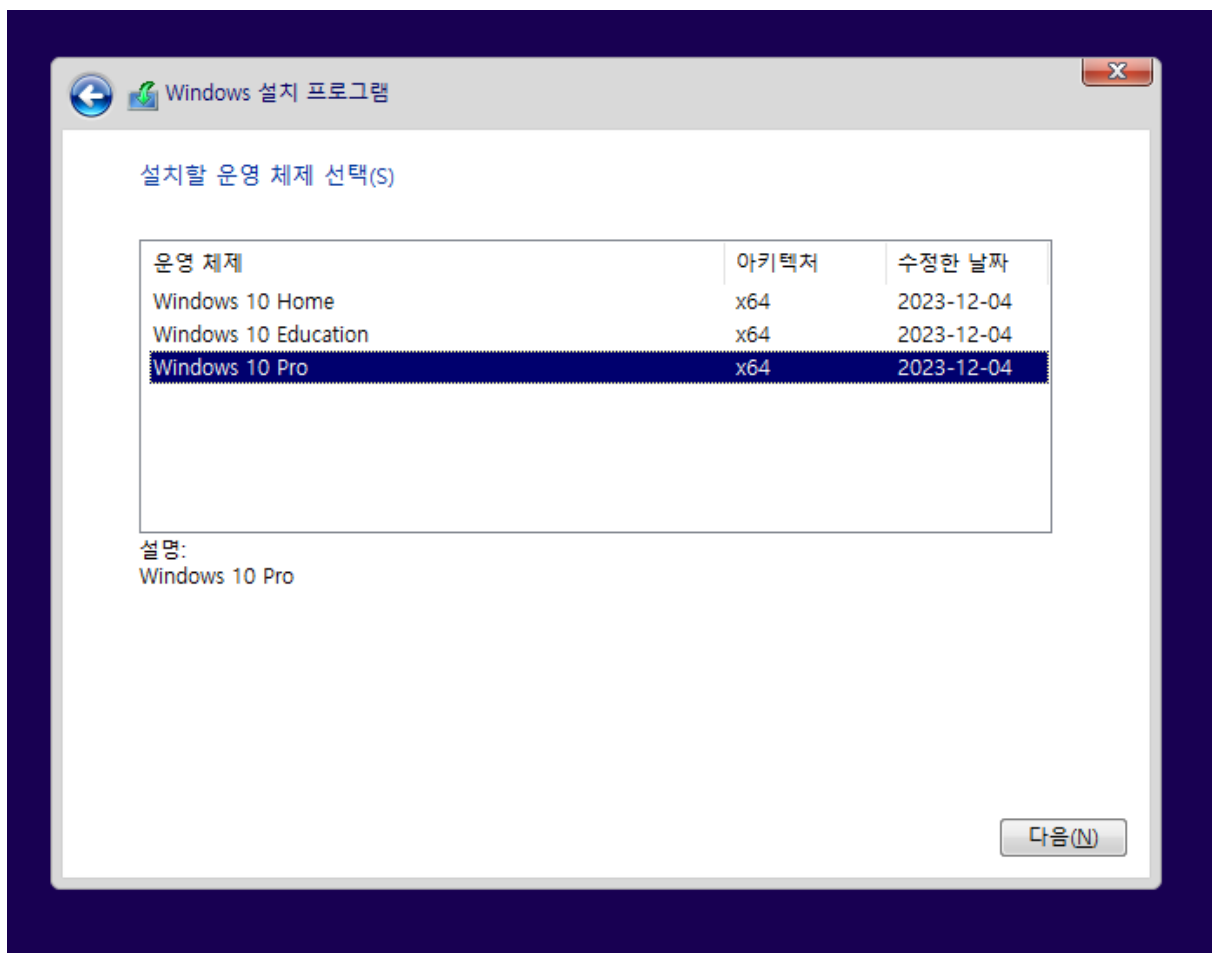
☐ 끝낼 때 설정 유효성 검사(L)

고급(M)...

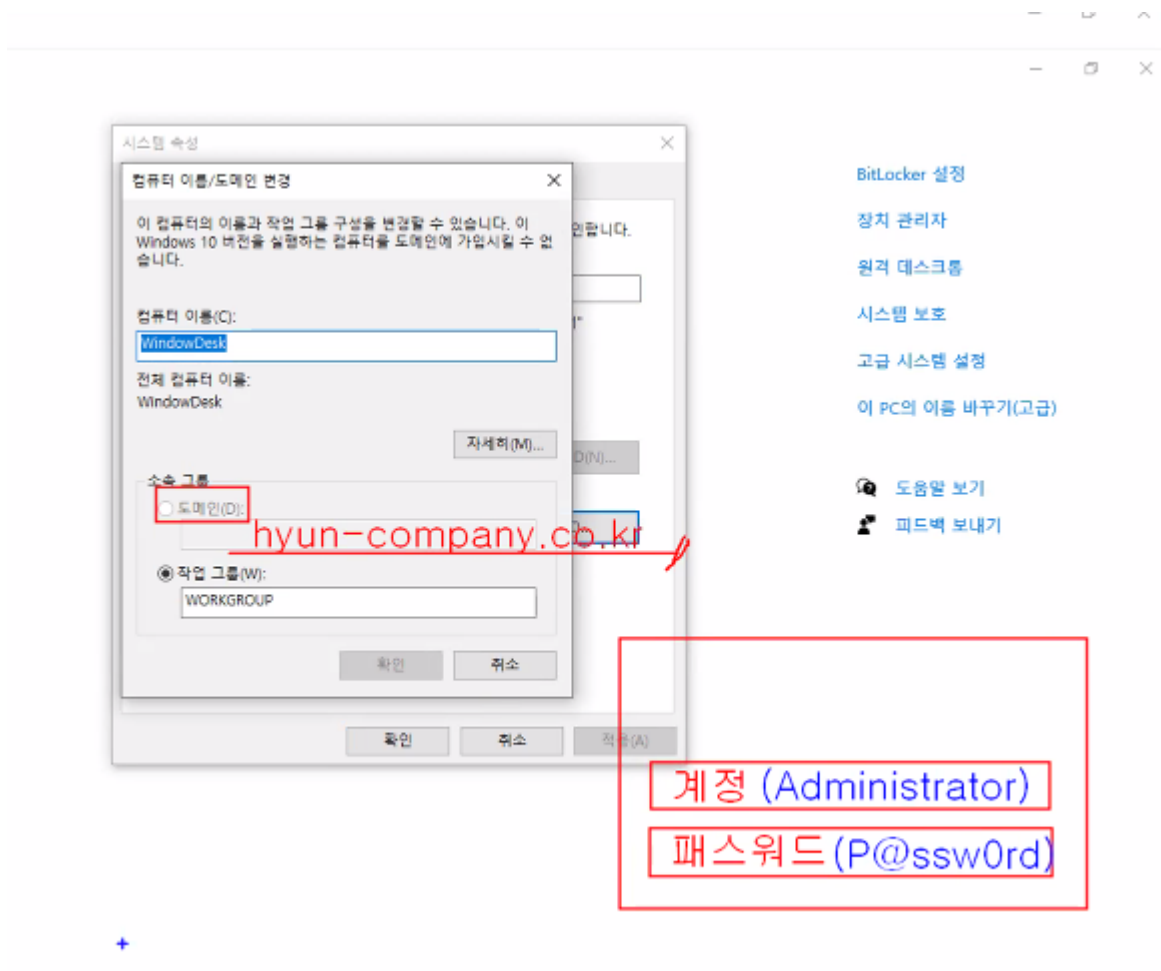
확인 취소

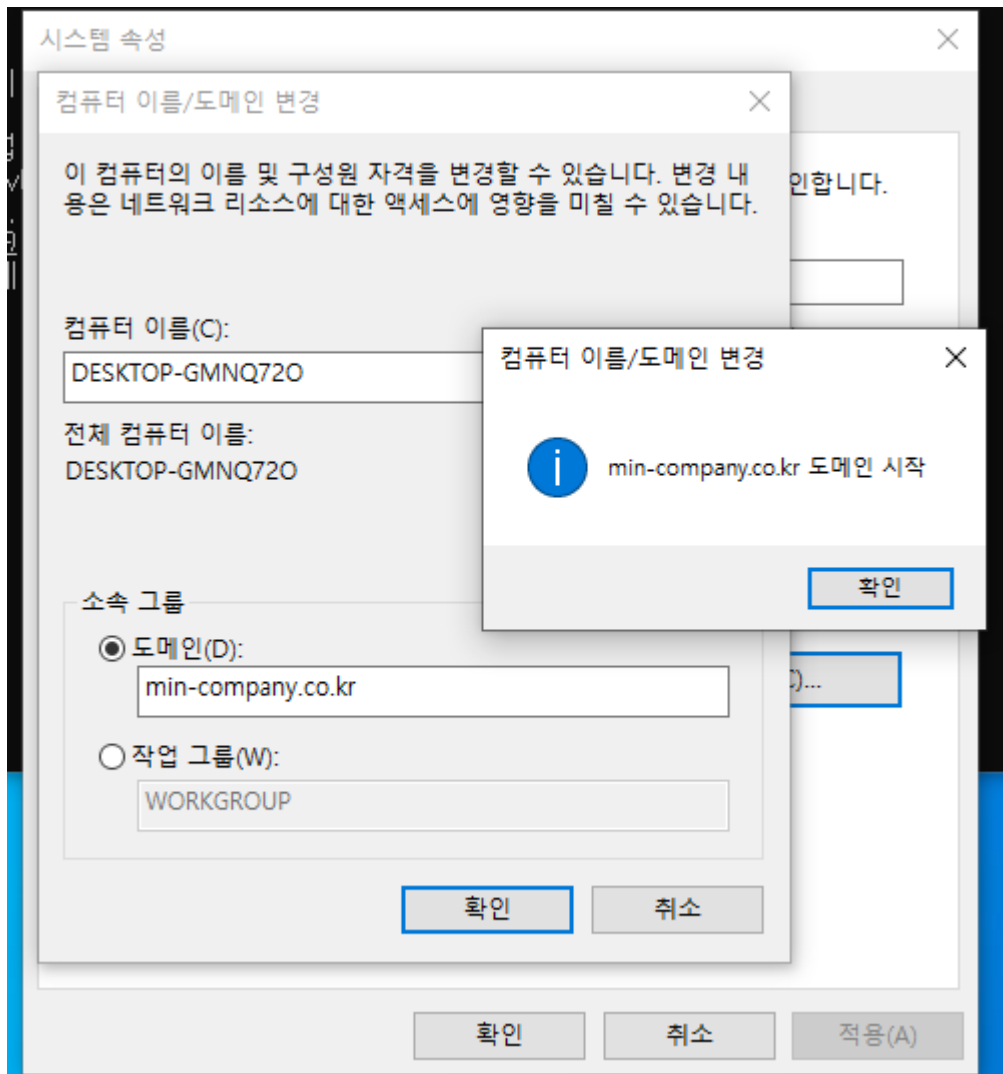


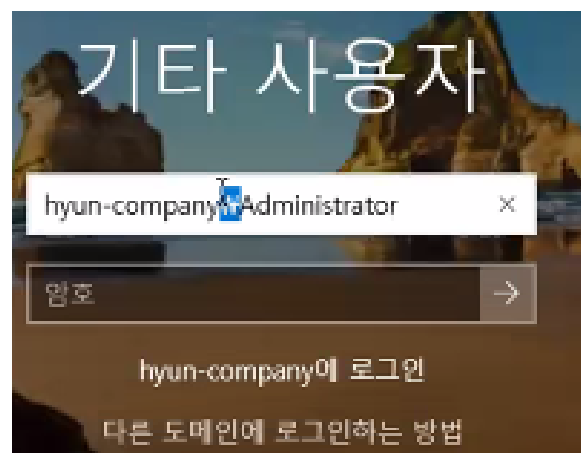
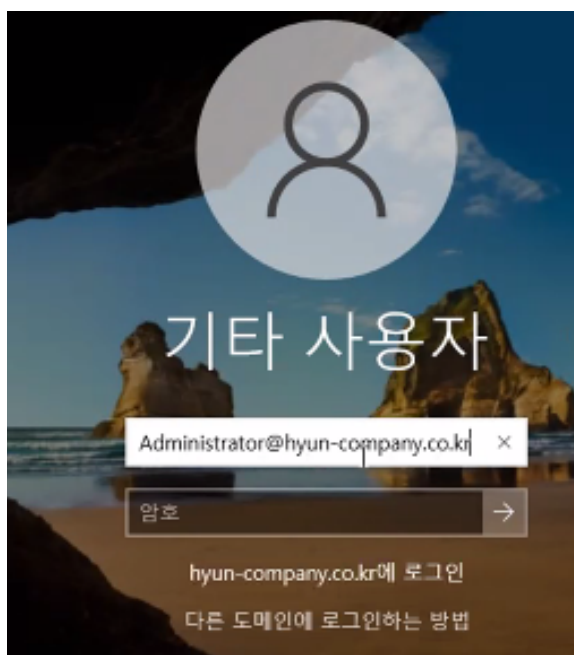
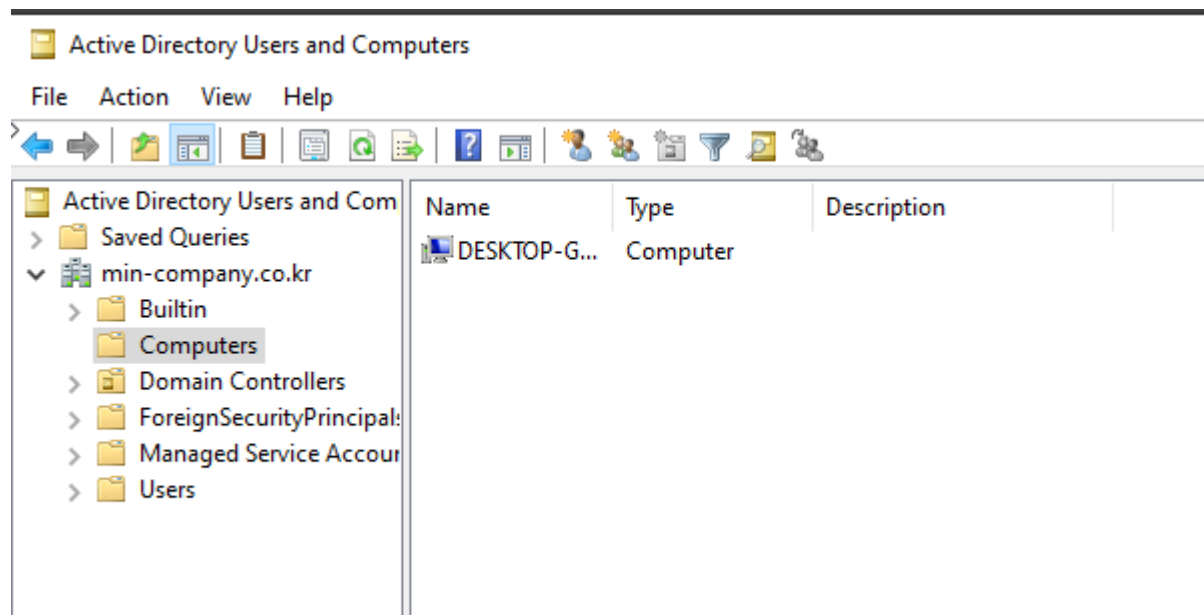
home 버전이라 다시 설치 중



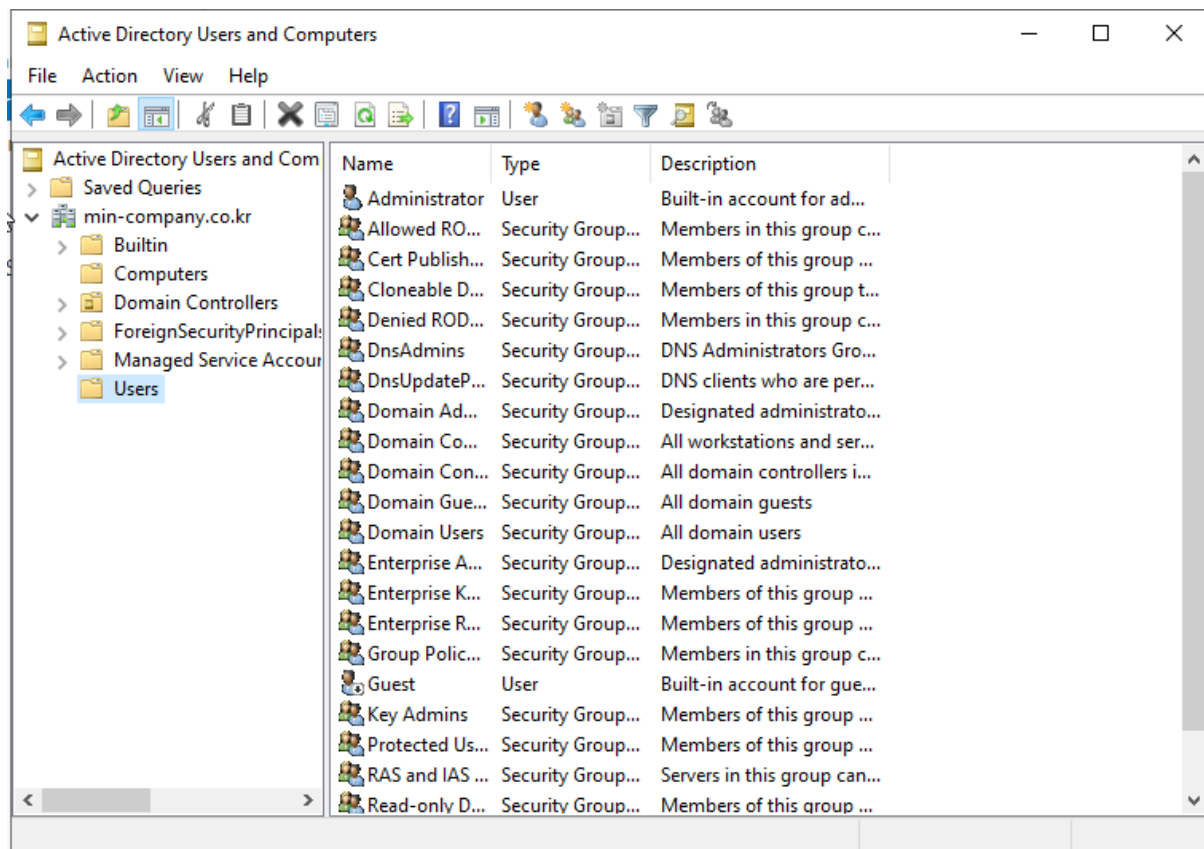
→ 이렇게 재설치







AD = WINDOWSERVER



Create in: min-company.co.kr/Users

First name: min Initials:

Last name:

Full name: min

User logon name: min @min-company.co.kr

User logon name (pre-Windows 2000): MIN-COMPANY\ min

< Back Next > Cancel

Create in: min-company.co.kr/Users

Password:

Confirm password:

☒ User must change password at next logon

☐ User cannot change password

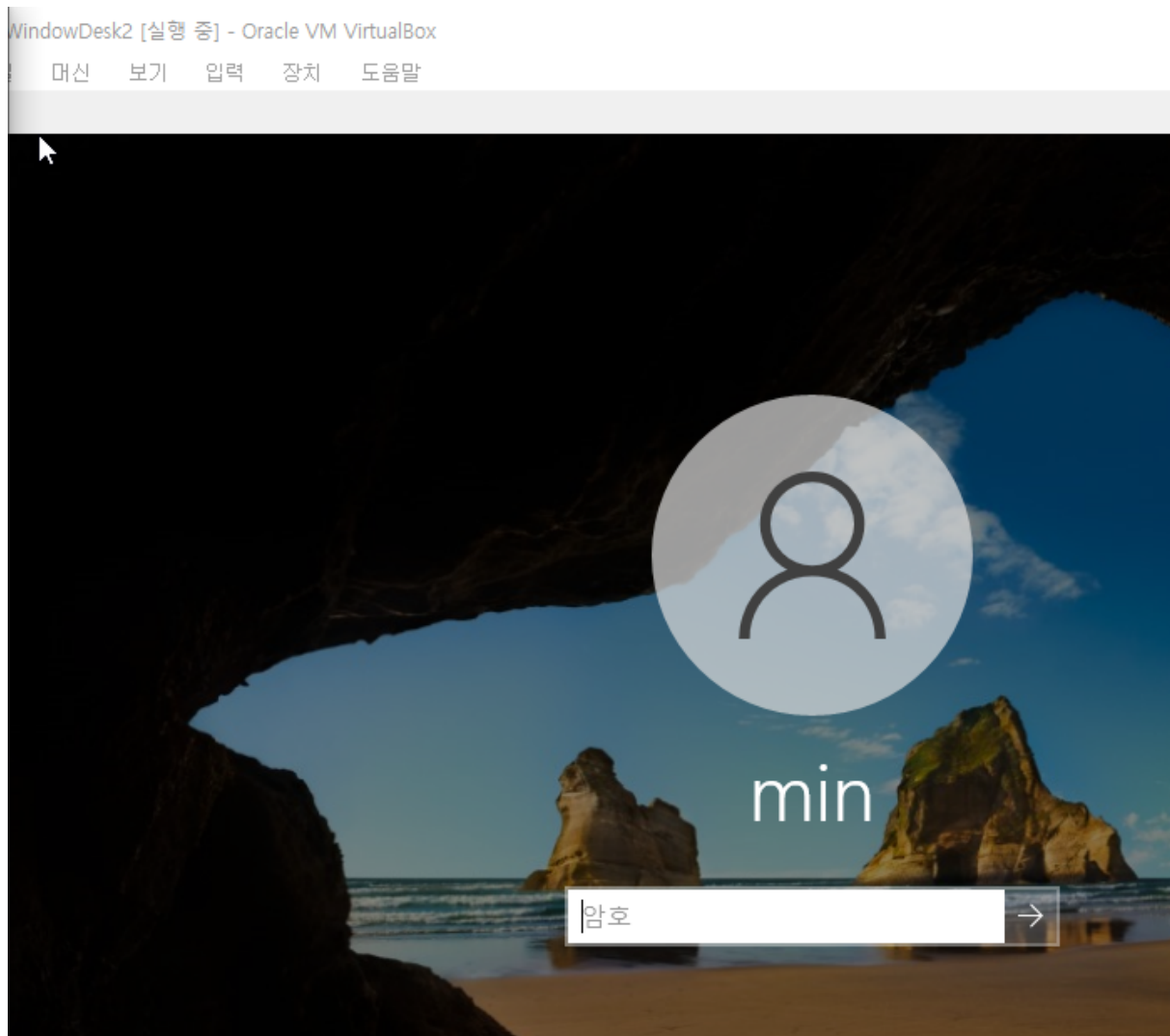
☐ Password never expires

☐ Account is disabled

< Back Next > Cancel

	Key Admins	Security Group...	Members of this group ...
	min	User	
	Protected Us...	Security Group...	Members of this group ...

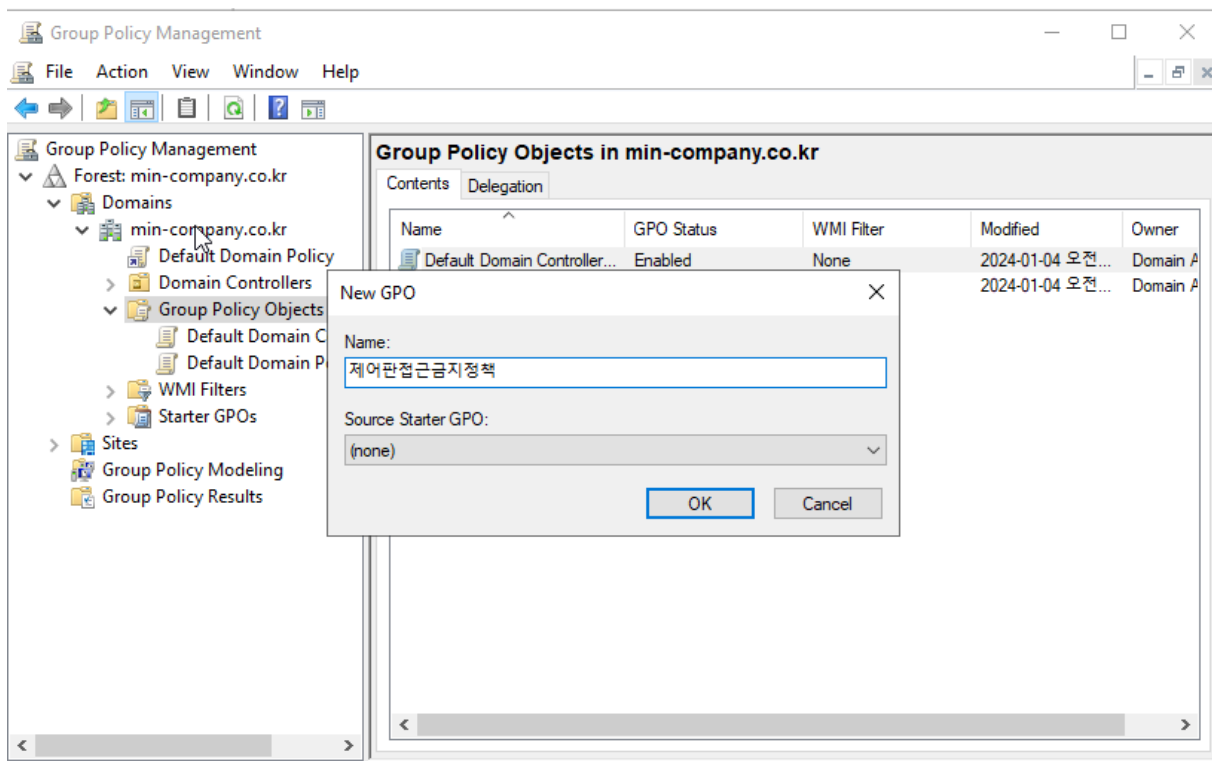
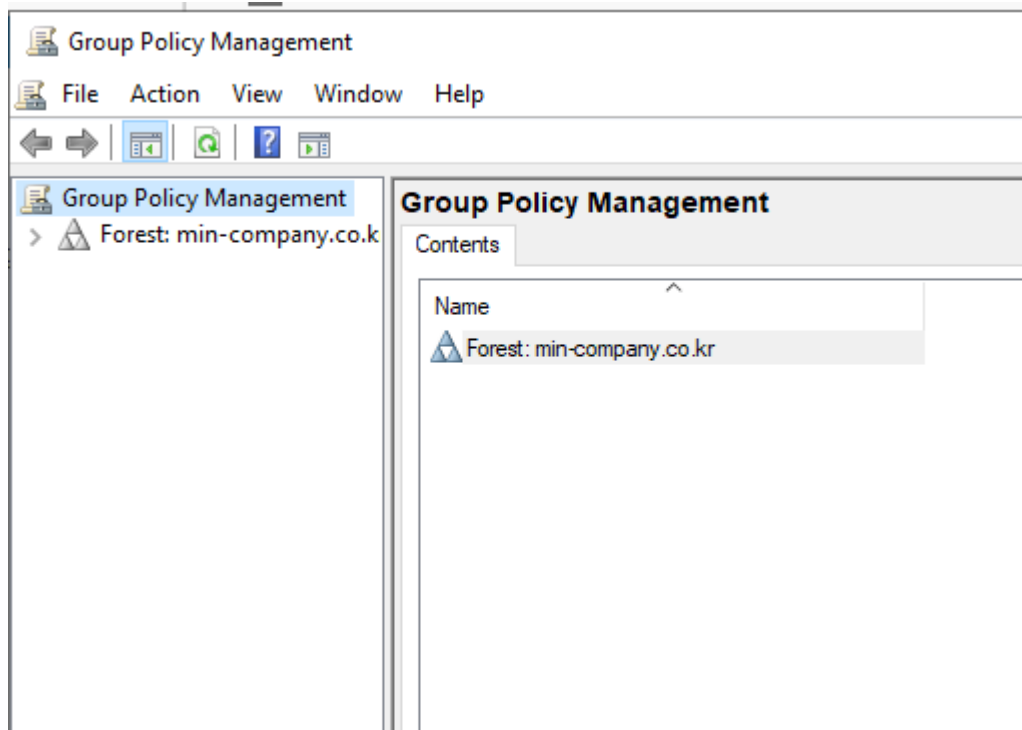
P@ssw0rd!!

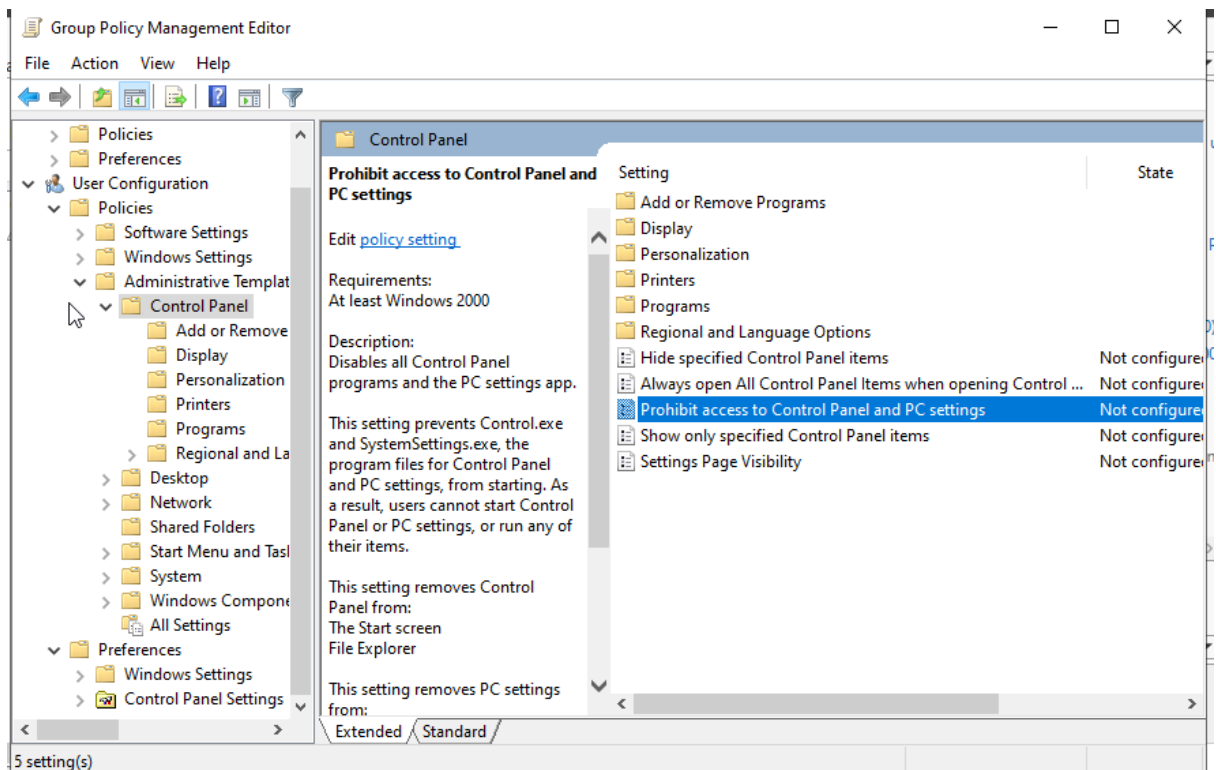
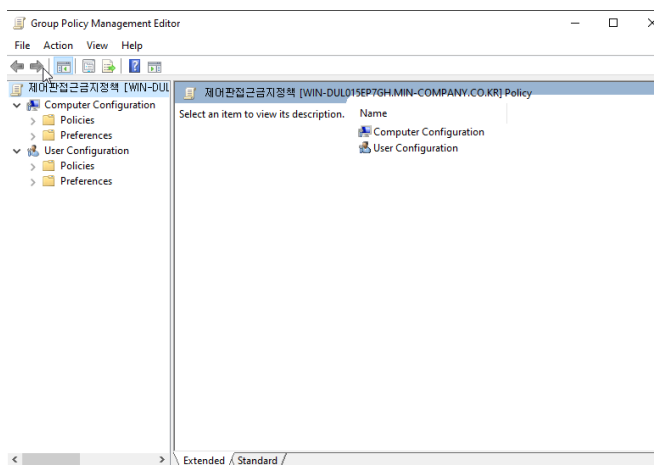
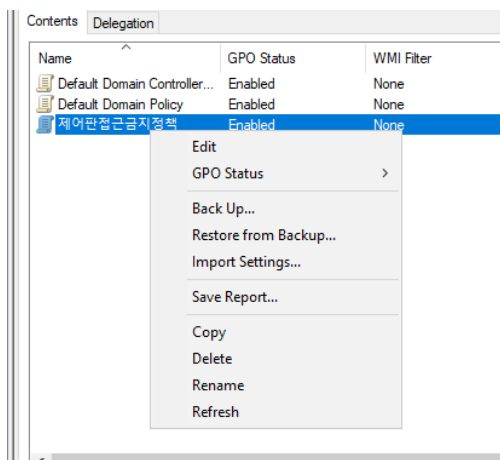


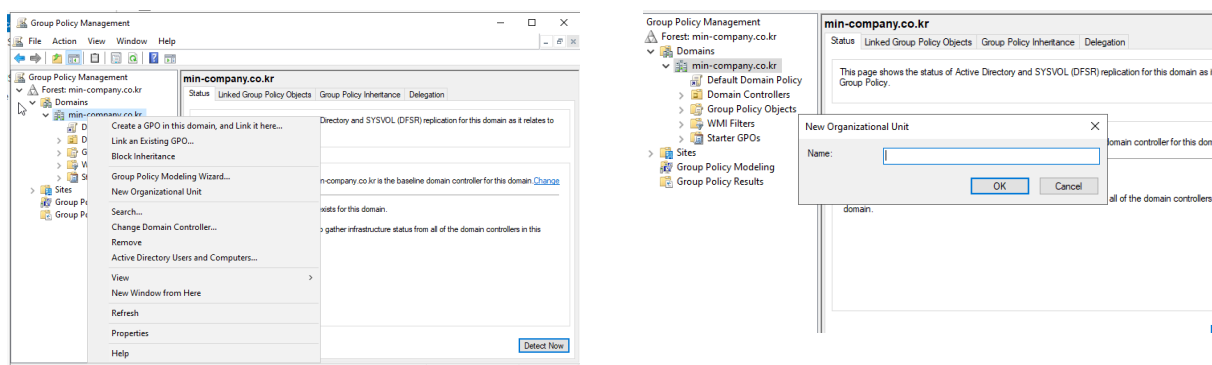
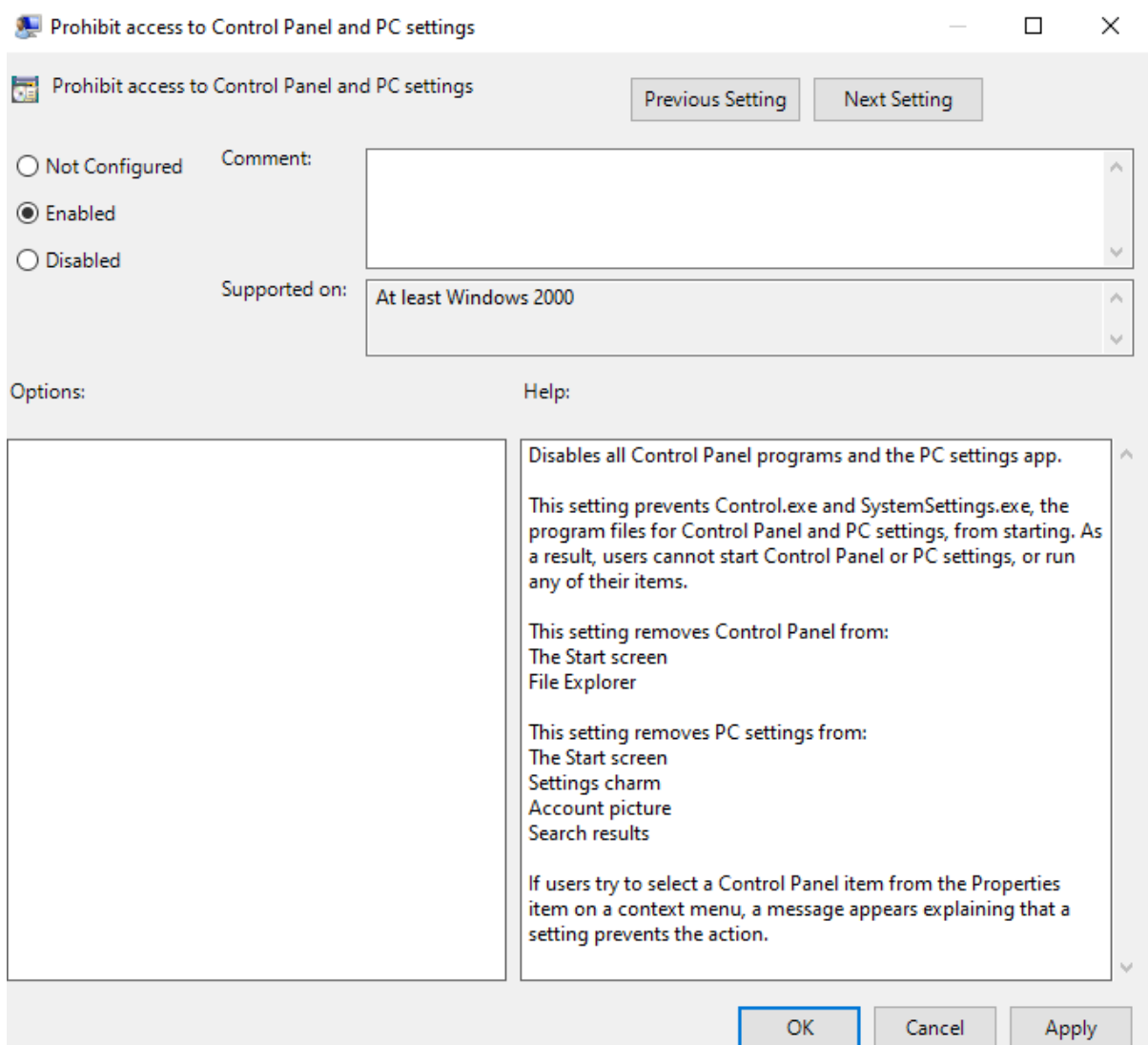
윈도우 데스크에서 min으로 로그인 가능

제어판 열리지 않게 하는 기능

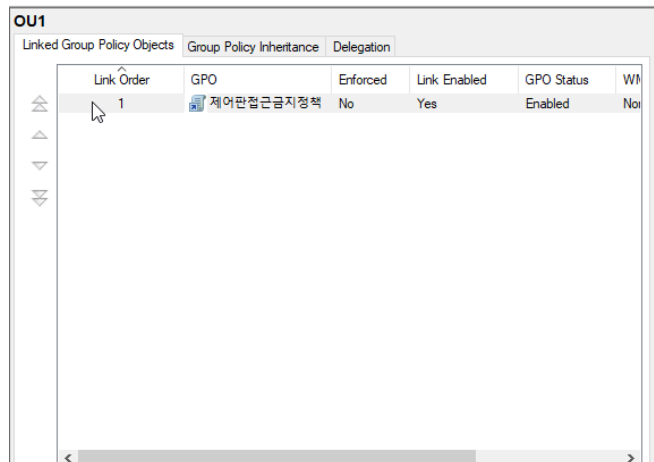
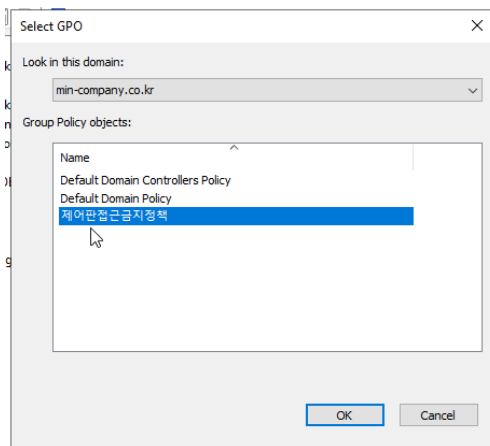
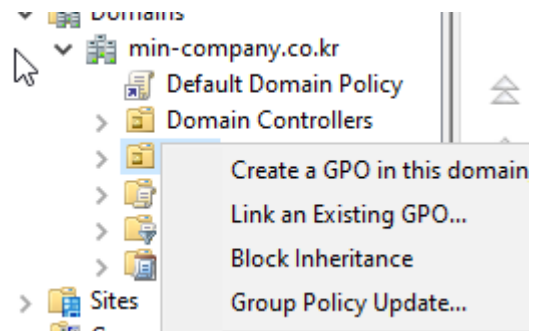
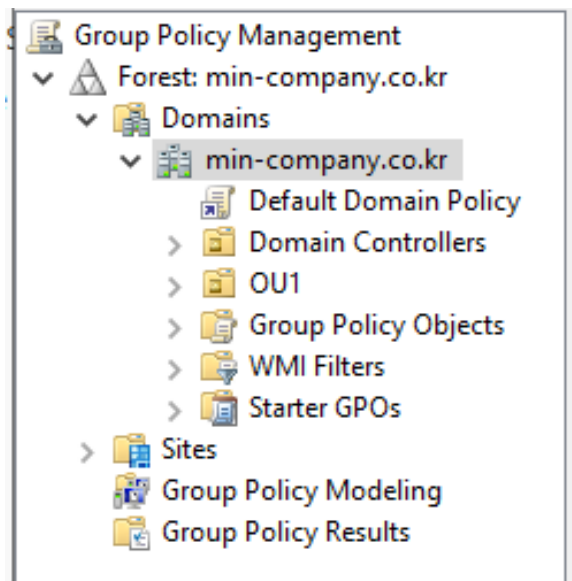
prohibit access to Control Panel and PC settings

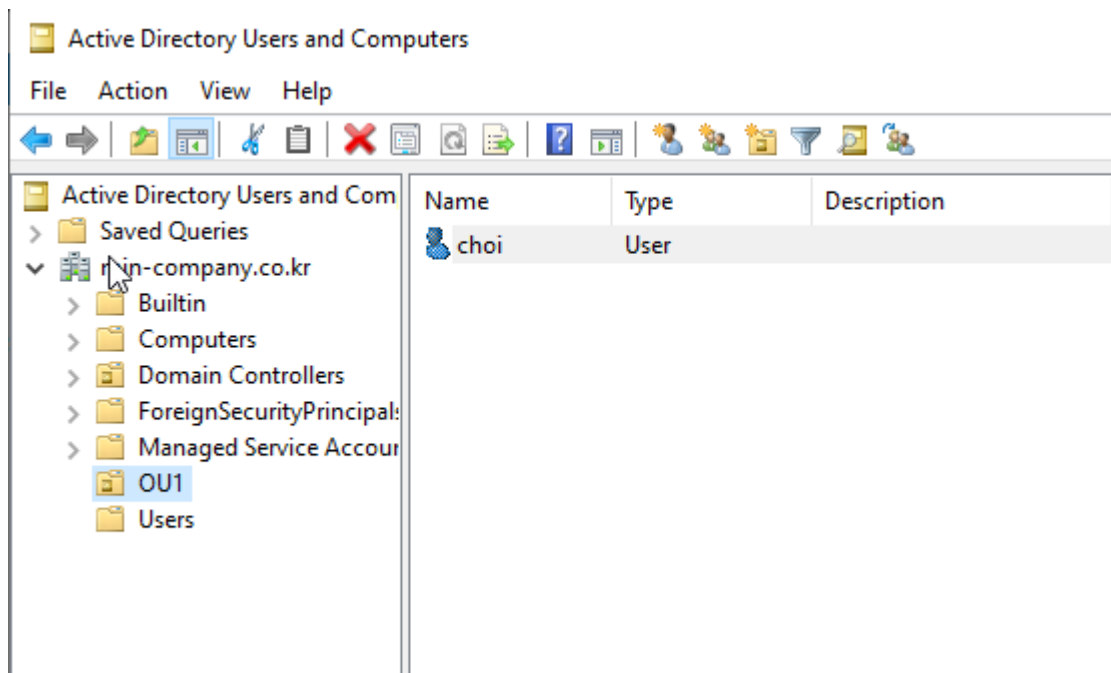
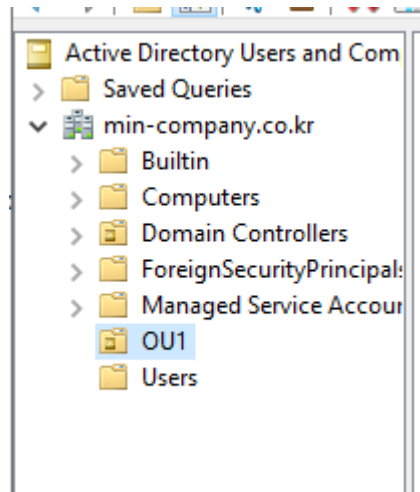






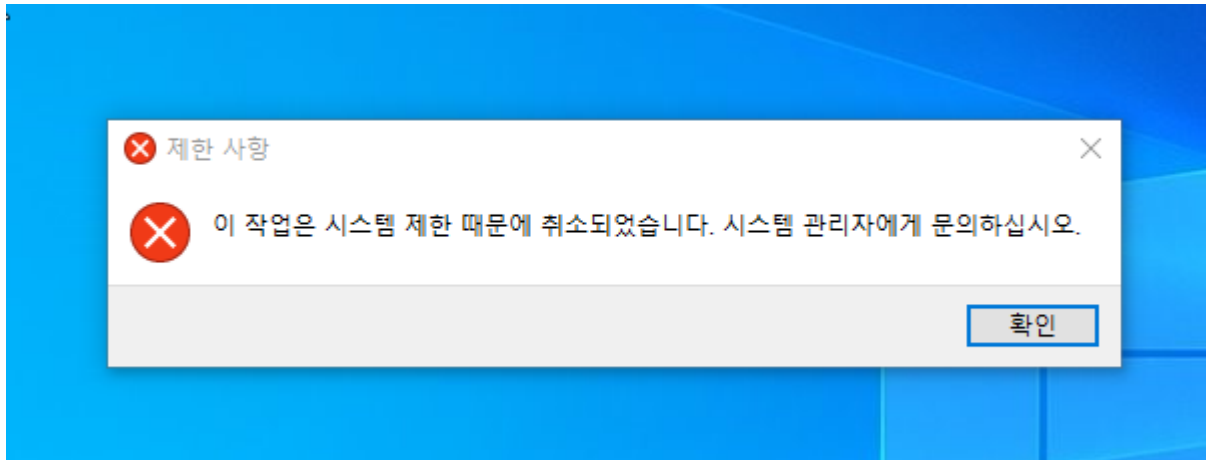
OU1



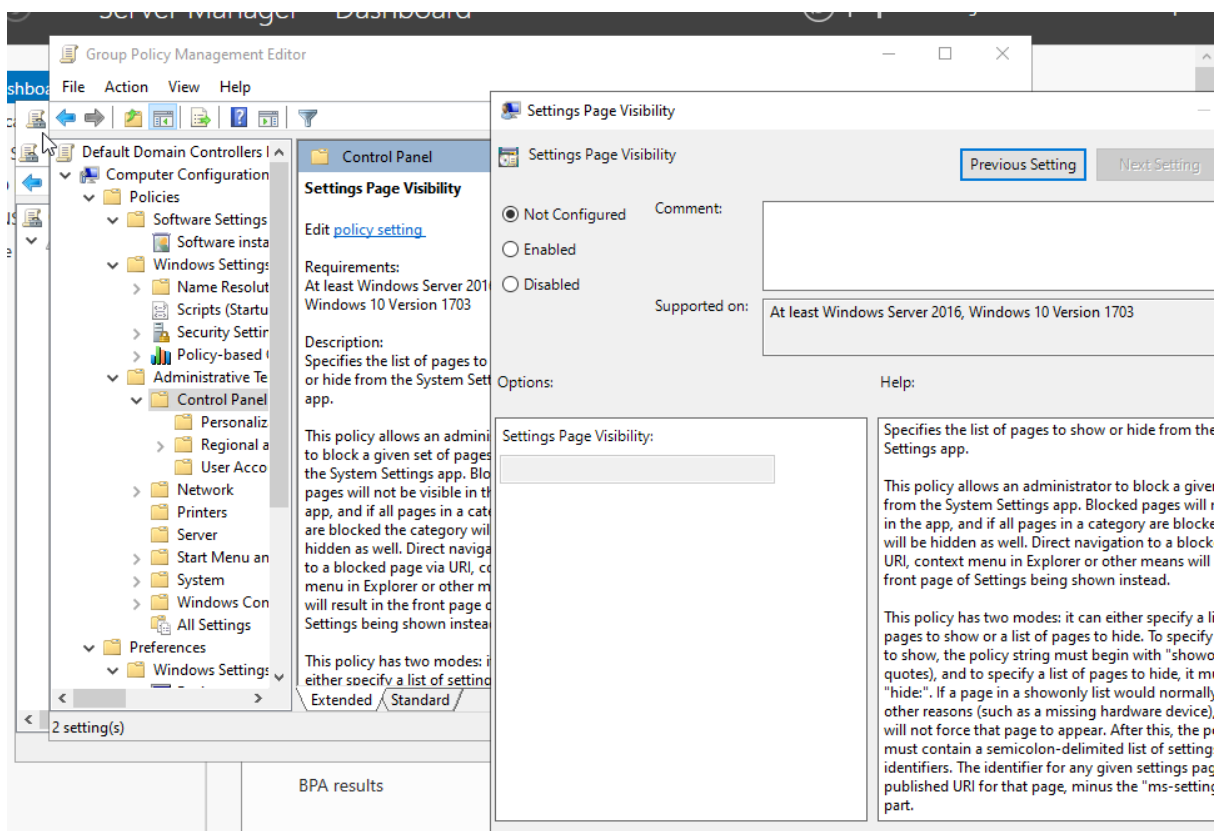


비번

P@ssw0rd



제어판 안 열림



Settings Page Visibility

Settings Page Visibility

Previous Setting

Next Setting

☐ Not Configured
 ☒ Enabled
 ☐ Disabled

Comment:

Supported on:

At least Windows Server 2016, Windows 10 Version 1703

Options:

Settings Page Visibility:

showonly:about;bluetooth

Help:

"hide:". If a page in a showonly list would normally be hidden for other reasons (such as a missing hardware device), this policy will not force that page to appear. After this, the policy string must contain a semicolon-delimited list of settings page identifiers. The identifier for any given settings page is the published URI for that page, minus the "ms-settings:" protocol part.

Example: to specify that only the About and Bluetooth pages should be shown (their respective URIs are ms-settings:about and ms-settings:bluetooth) and all other pages hidden:

showonly:about;bluetooth

Example: to specify that only the Bluetooth page (which has URI ms-settings:bluetooth) should be hidden:

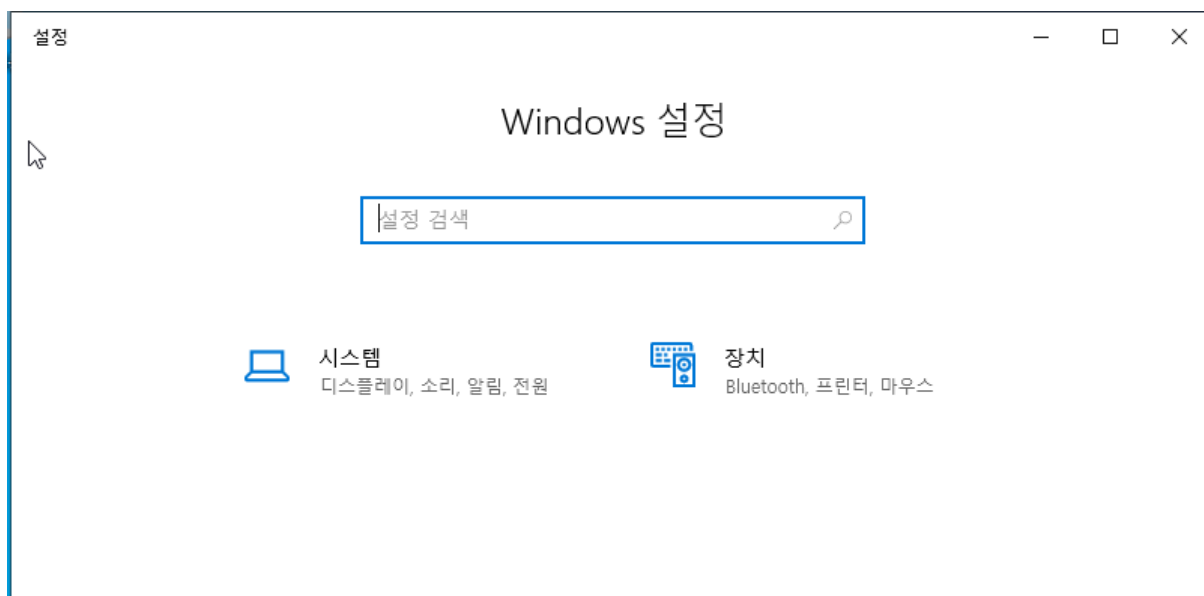
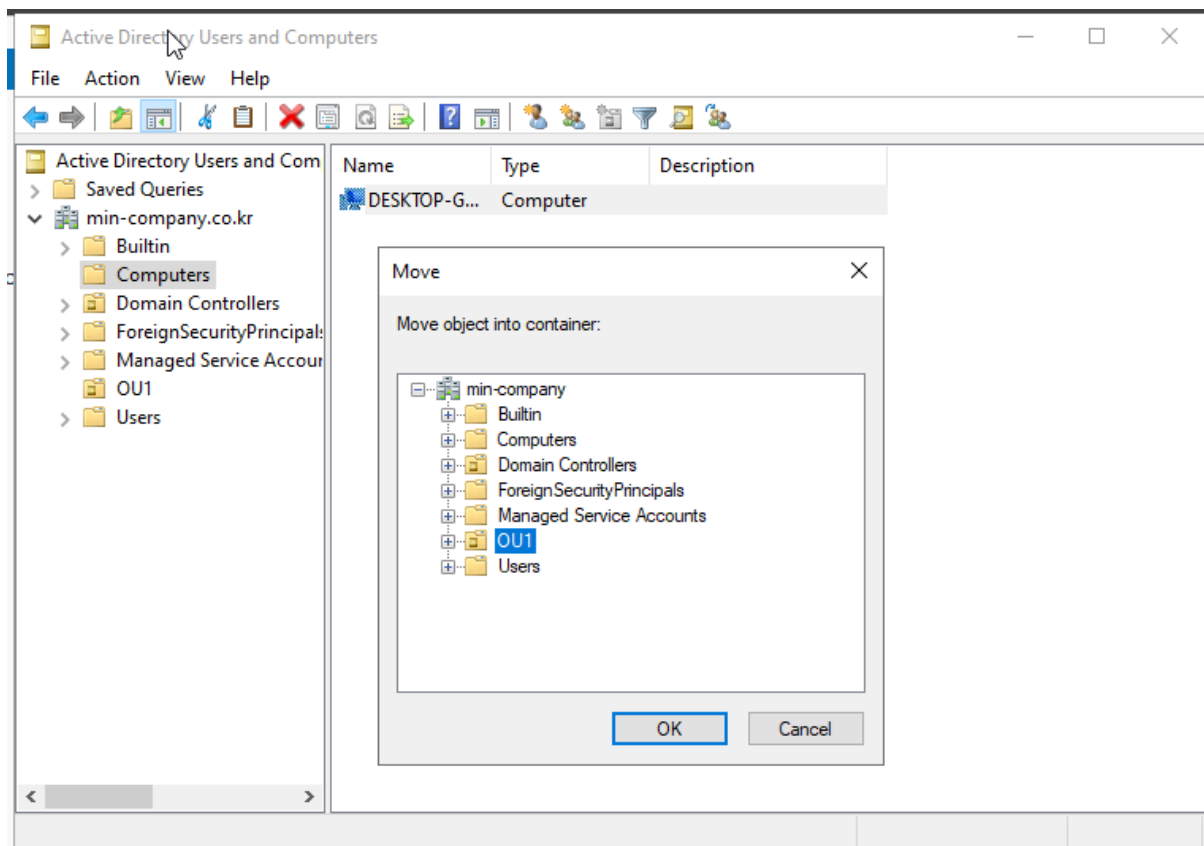
hide:bluetooth

The availability of per-user support is documented here: <https://go.microsoft.com/fwlink/?linkid=2102995>

OK

Cancel

Apply



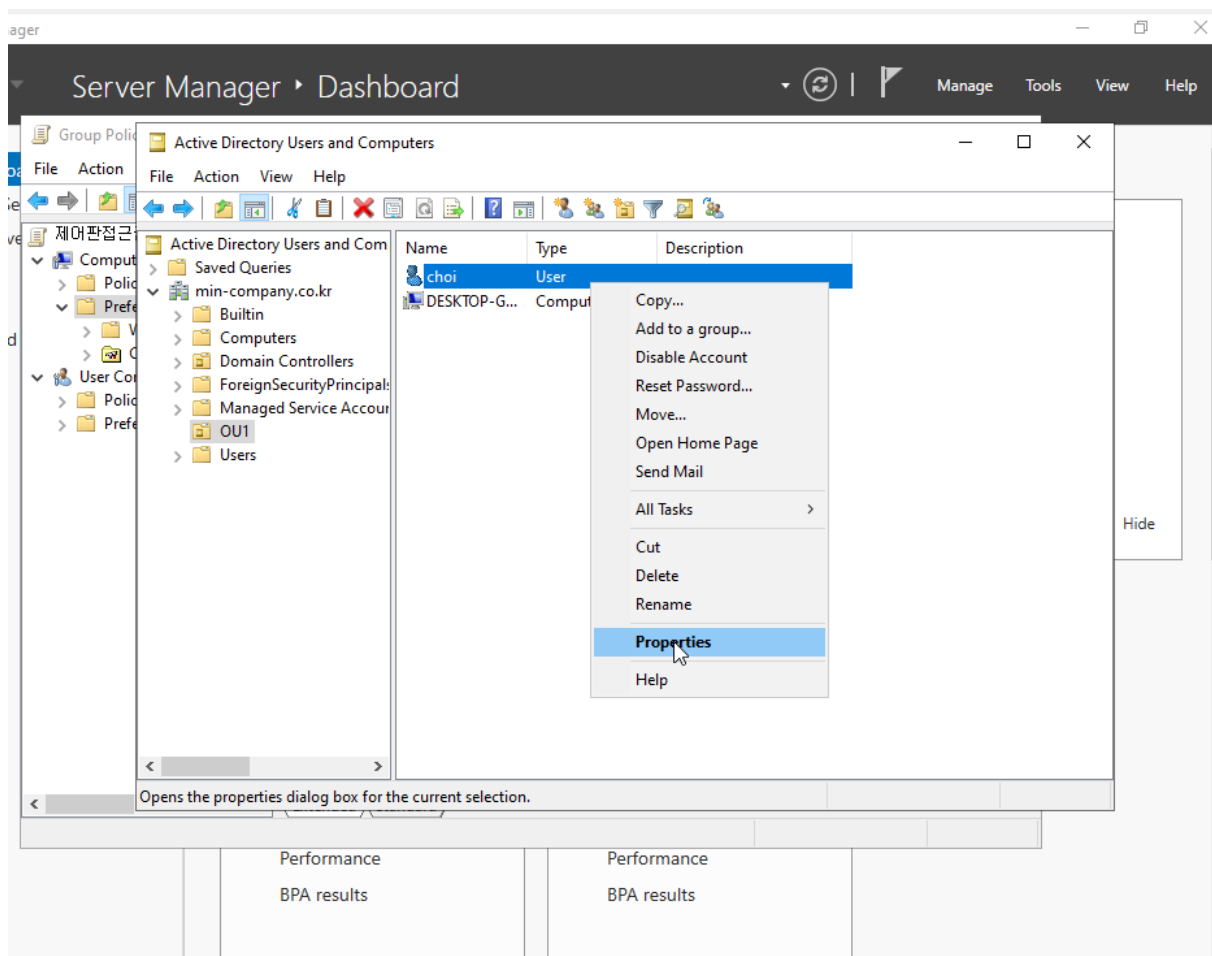
이게 안되는 이유는

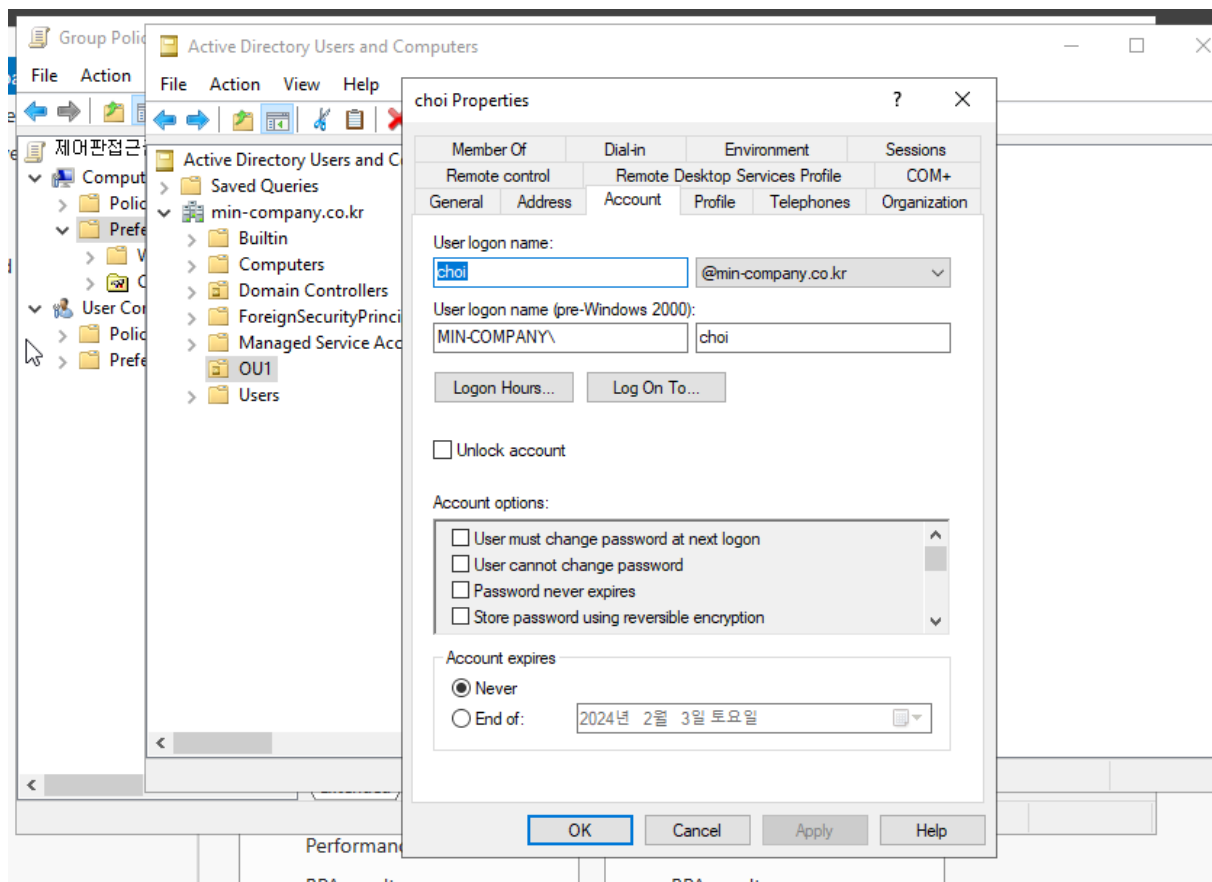
showonly:about;bluetooth 이거 설정해 놓았기 때문이다.

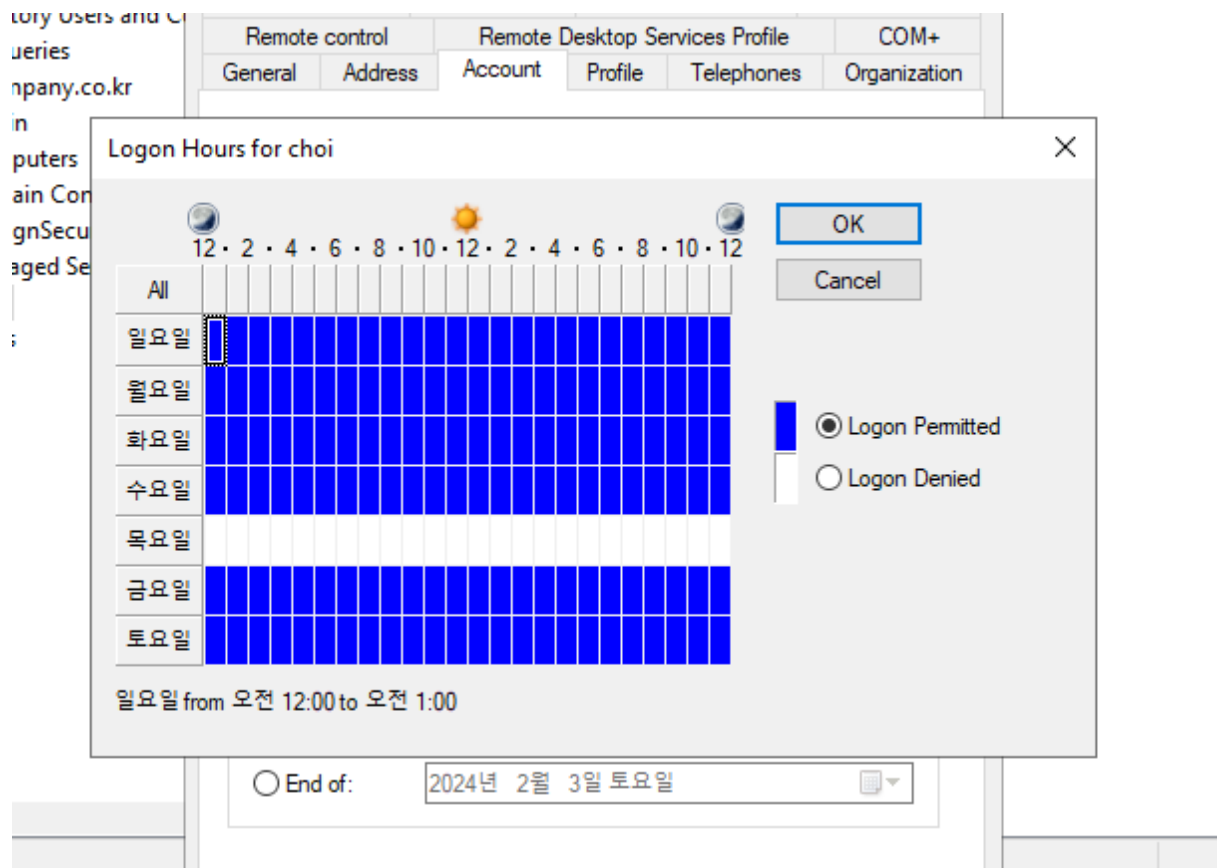
사용자마다 로그인할 수 있는 시간 정해놓는 거 적용

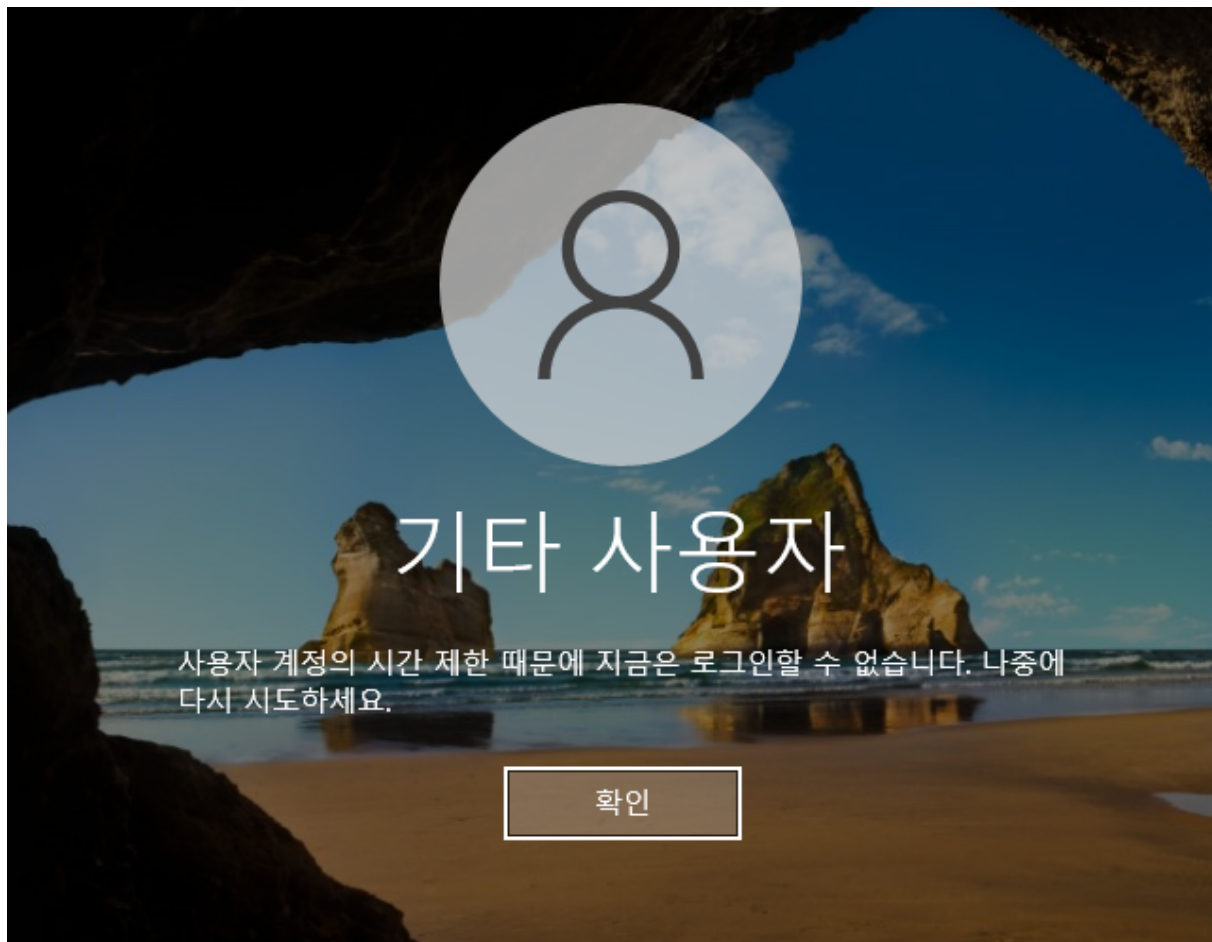
1. 로그인 시간 제한 설정:

- Windows 시작 메뉴에서 "그룹 정책" 또는 "그룹 정책 관리 편집기"를 검색하여 실행합니다.
- 그룹 정책 관리 편집기가 열리면 "컴퓨터 구성" -> "Windows 설정" -> "보안 설정" -> "지역 정책" -> "보안 옵션" 으로 이동합니다.
- "계정 로그인 시간 제한" 항목을 찾아 더블 클릭합니다.
- 이제 원하는 시간 제한을 설정합니다.



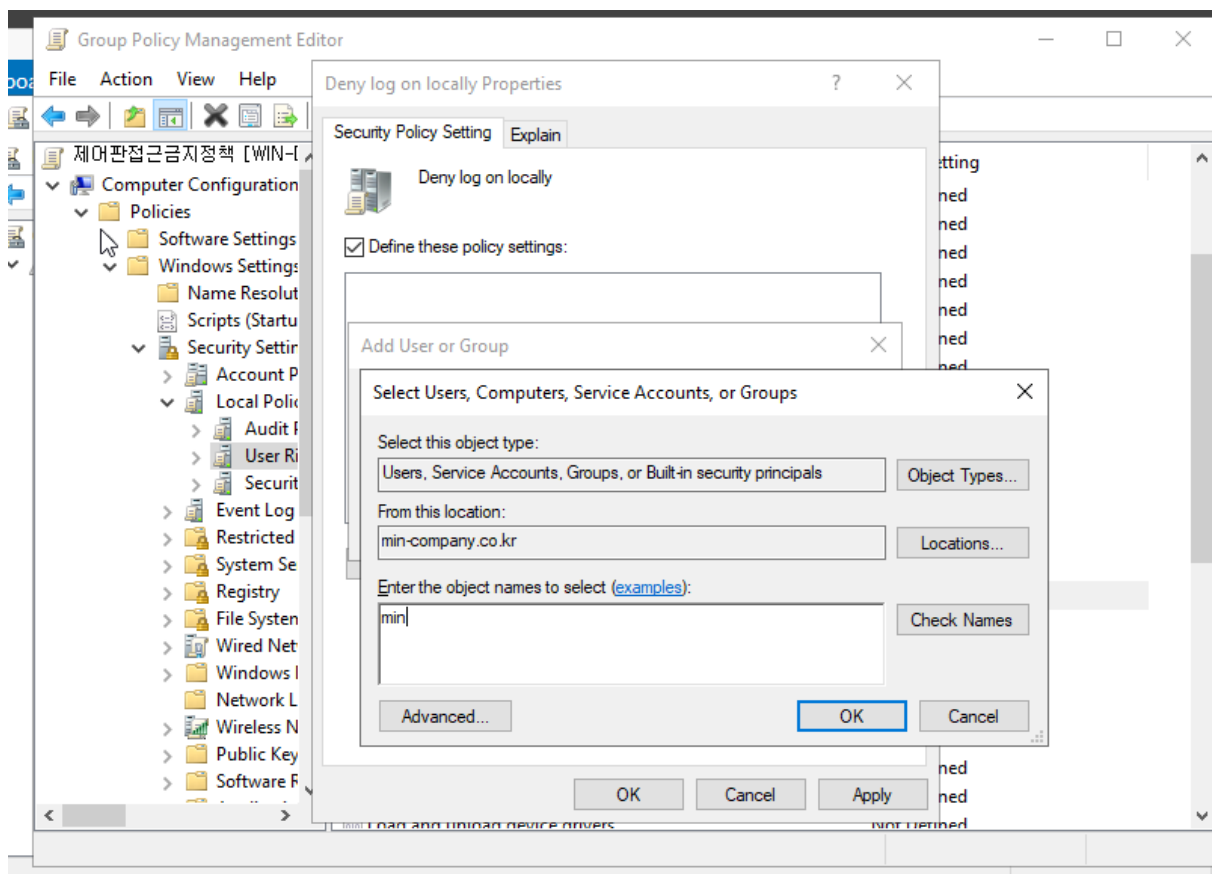
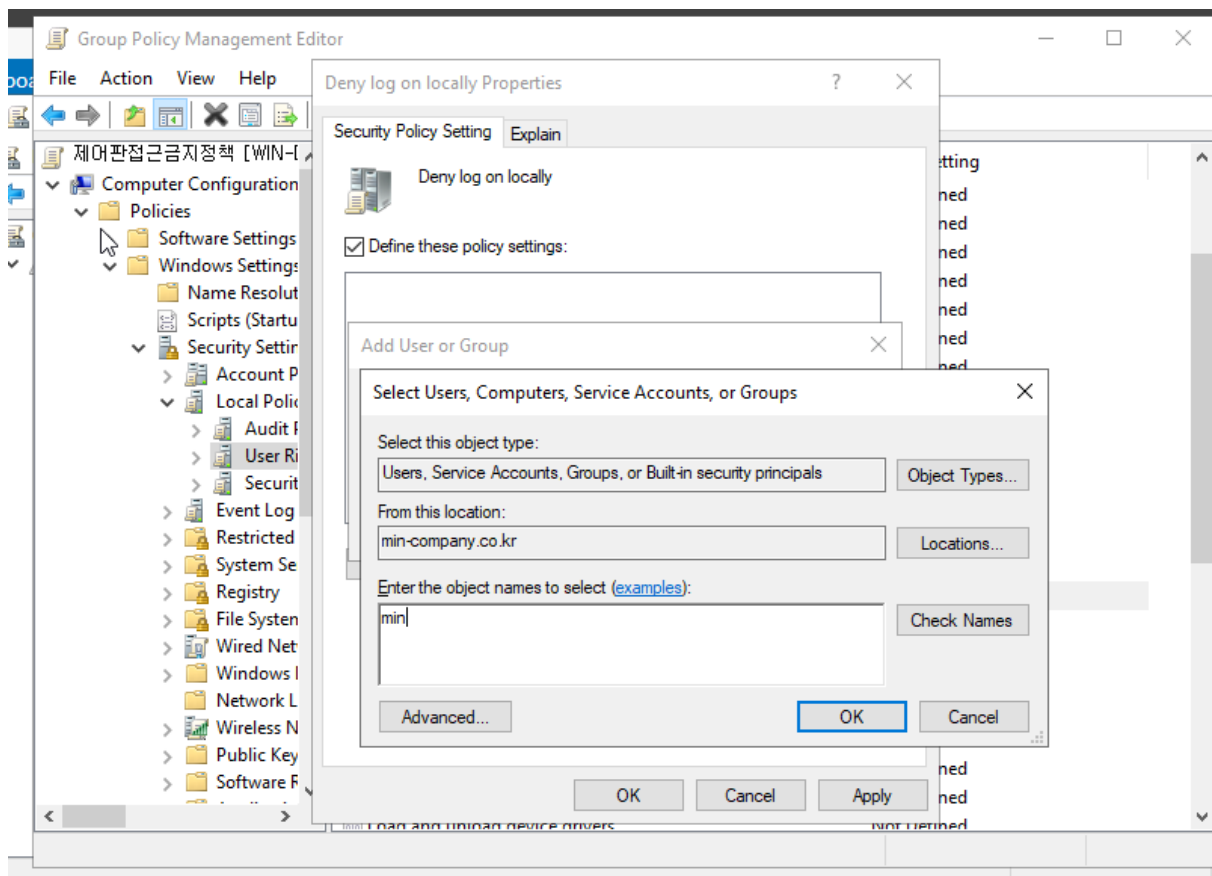


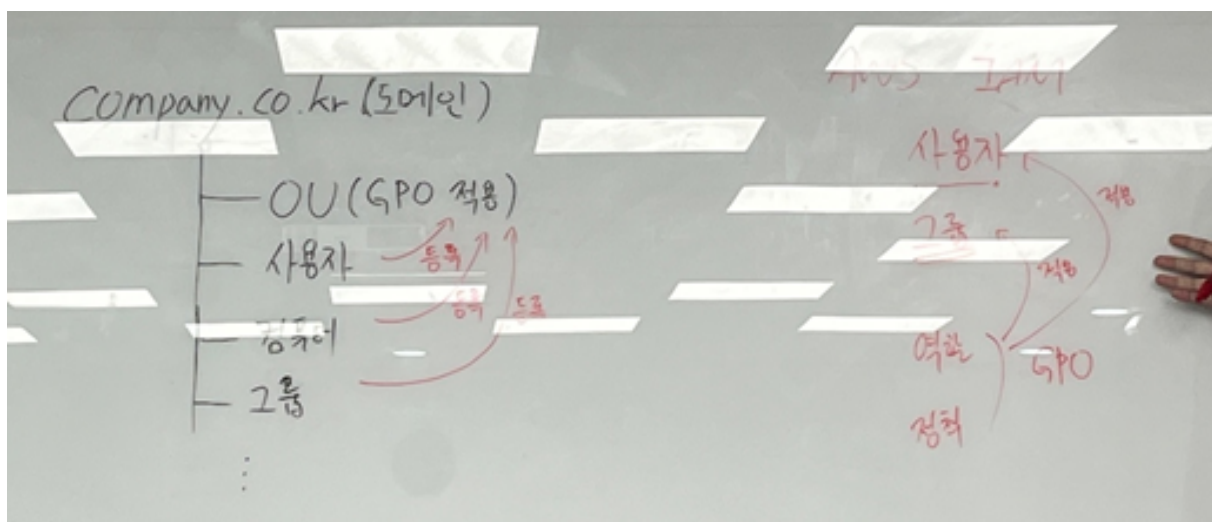
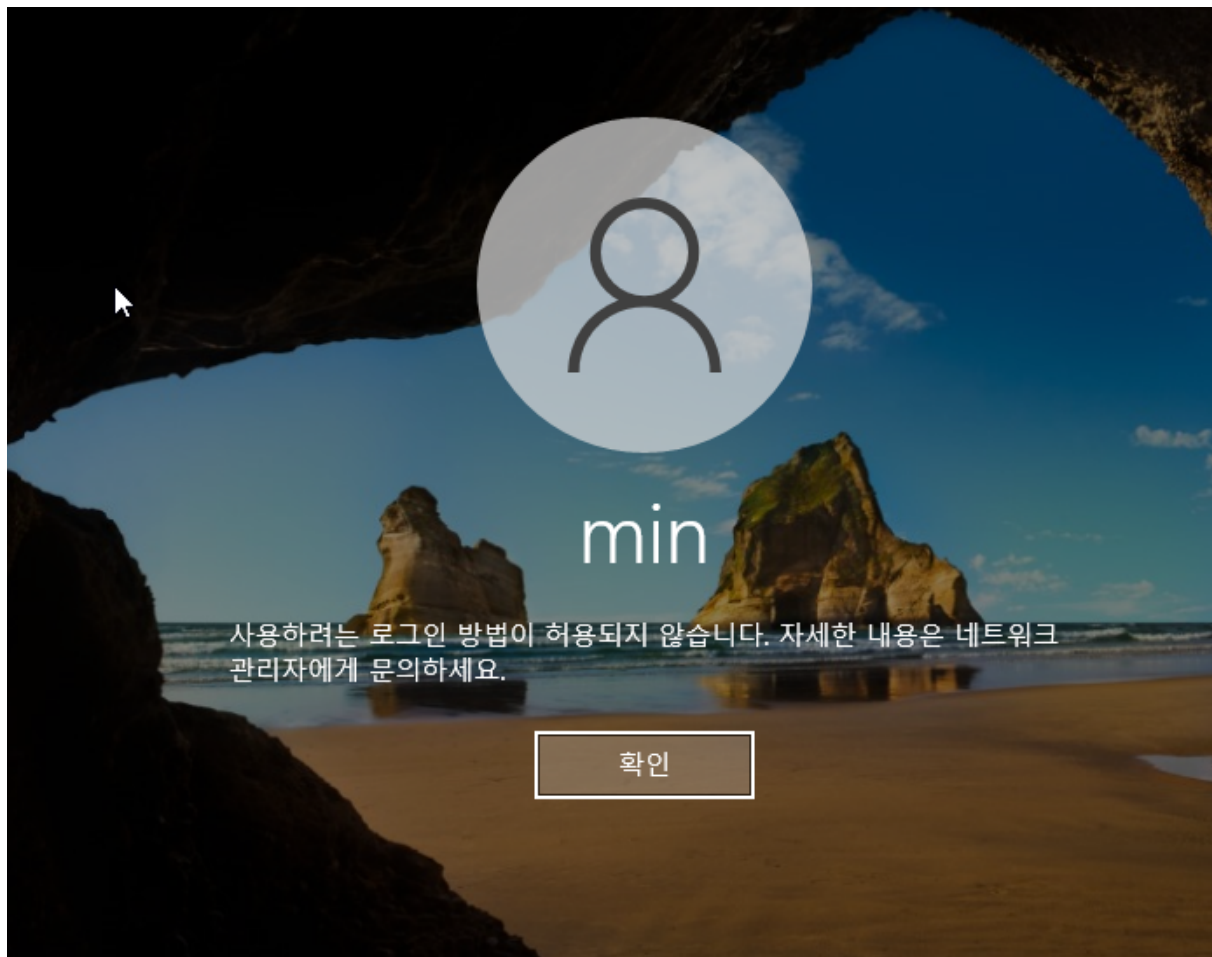




특정 컴퓨터에 로그인을 할 수 없는 사용자를 지정해 놓는 것(min 로그인 할 수 없게 해보기)

-





```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Administrator> gpupdate
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

PS C:\Users\Administrator> _
```

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

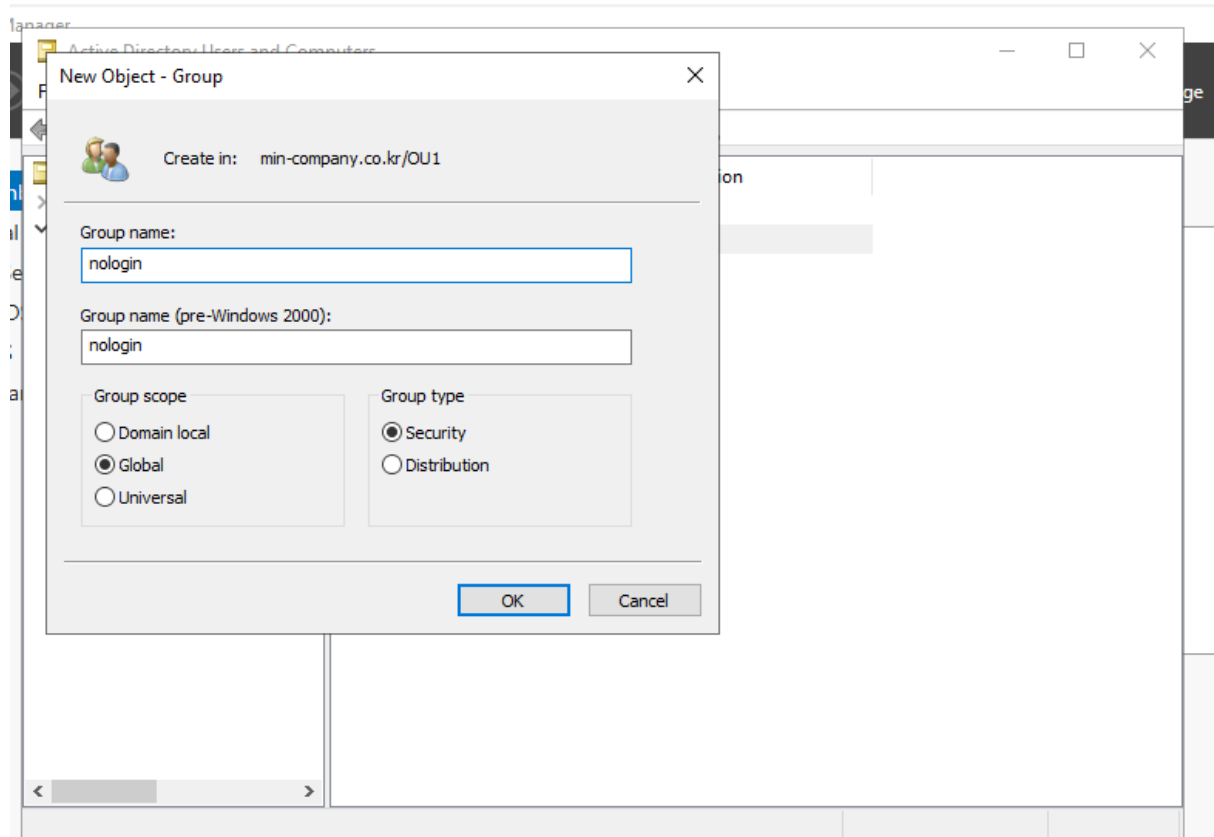
PS C:\Users\Administrator> gpupdate
Updating policy...

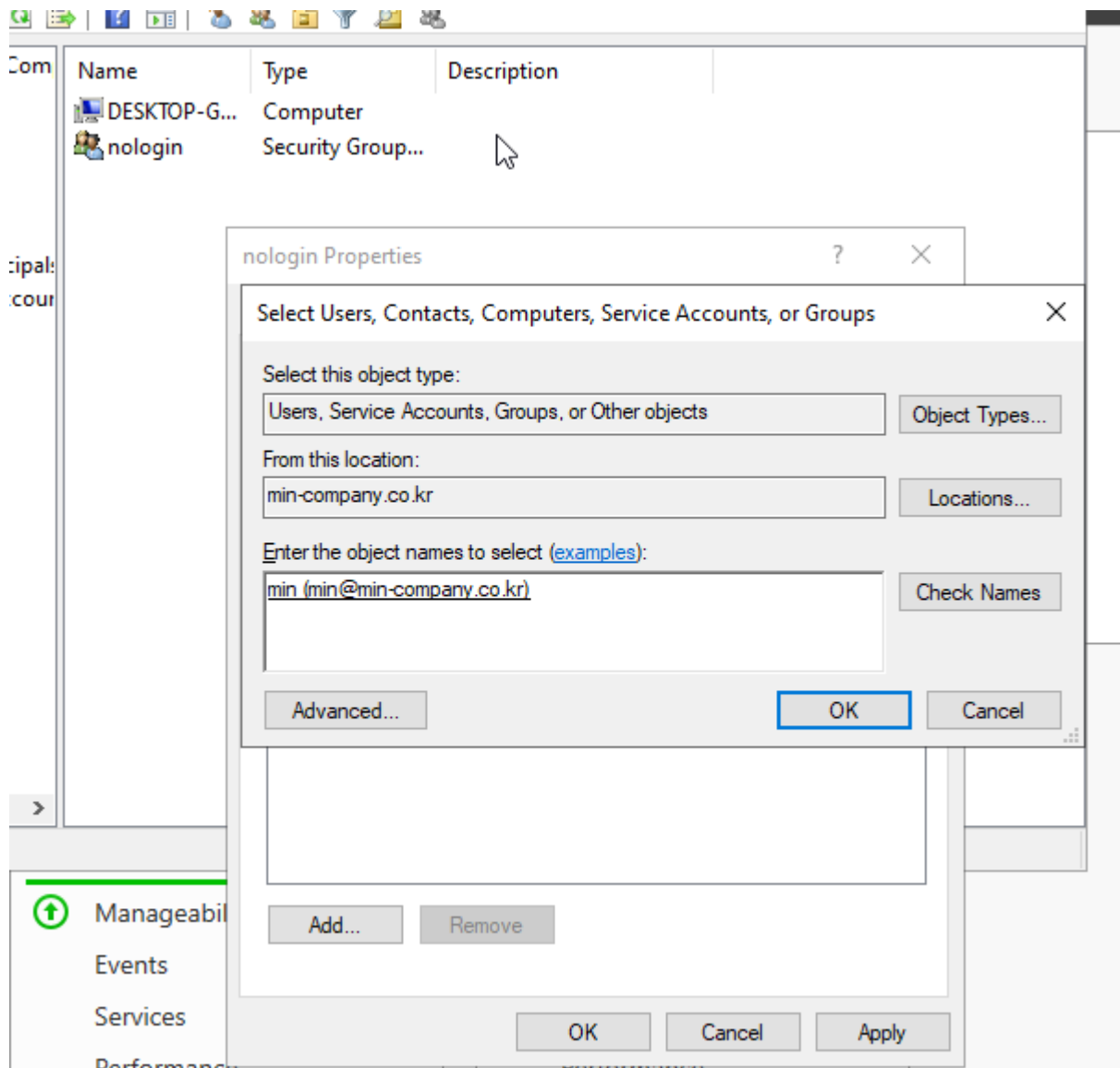
Computer Policy update has completed successfully.
User Policy update has completed successfully.

PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator>
PS C:\Users\Administrator> gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

PS C:\Users\Administrator> _
```



시간 맞추기

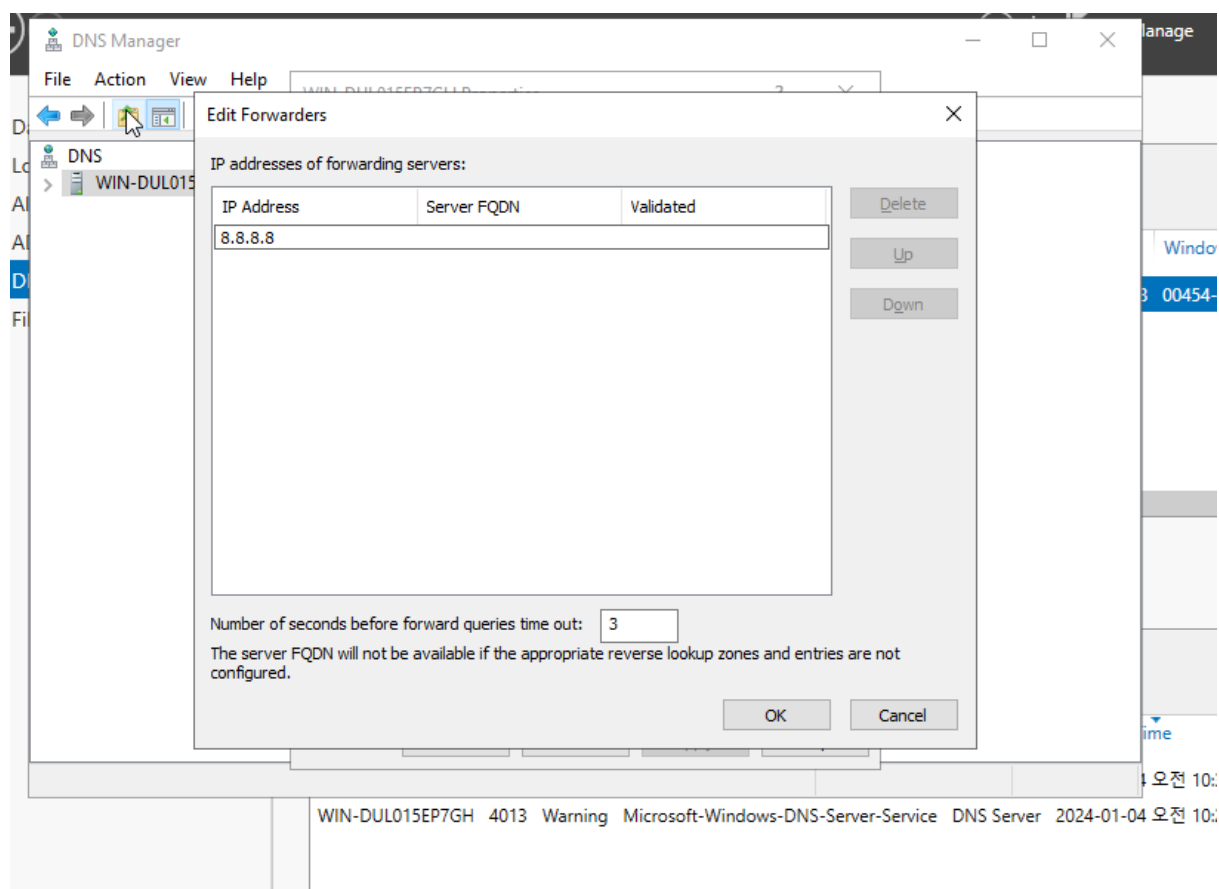
```
Last login: Thu Dec 28 05:44:55 UTC 2023 from 10.0.2.2 on pts/0
ubuntu@ubuntu:~$
ubuntu@ubuntu:~$ sudo iptables -t nat -A POSTROUTING -o enp0s3 -j MASQUERADE
[sudo] password for ubuntu:
sudo: iptables: command not found
ubuntu@ubuntu:~$ sudo iptables -t nat -A POSTROUTING -o enp0s3 -j MASQUERADE
```

```
ubuntu@ubuntugw:~$  
ubuntu@ubuntugw:~$ ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
64 bytes from 8.8.8.8: icmp_seq=1 ttl=57 time=44.9 ms  
64 bytes from 8.8.8.8: icmp_seq=2 ttl=57 time=34.9 ms  
64 bytes from 8.8.8.8: icmp_seq=3 ttl=57 time=35.2 ms  
64 bytes from 8.8.8.8: icmp_seq=4 ttl=57 time=36.0 ms  
64 bytes from 8.8.8.8: icmp_seq=5 ttl=57 time=33.4 ms  
64 bytes from 8.8.8.8: icmp_seq=6 ttl=57 time=33.1 ms  
64 bytes from 8.8.8.8: icmp_seq=7 ttl=57 time=34.2 ms  
64 bytes from 8.8.8.8: icmp_seq=8 ttl=57 time=34.5 ms  
^C  
--- 8.8.8.8 ping statistics ---  
8 packets transmitted, 8 received, 0% packet loss, time 7014ms  
rtt min/avg/max/mdev = 33.057/35.788/44.872/3.546 ms
```

```
ubuntu@ubuntugw: /etc/netplan  
# This is the network config written by 'subiquity'  
network:  
  ethernets:  
    enp0s3:  
      dhcp4: true  
    enp0s8:  
      dhcp4: false  
      addresses: [172.16.10.254/24]  
    enp0s9:  
      dhcp4: false  
      addresses: [172.16.20.254/24]  
    enp0s10:  
      dhcp4: false  
      addresses: [172.16.30.254/24, 172.16.30.30/24]  
  version: 2  
~  
~  
~  
~
```

```
Approximate round trip times in milli-seconds:
    Minimum = 34ms, Maximum = 57ms, Average = 40ms
PS C:\Users\Administrator> ^C
PS C:\Users\Administrator> ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=36ms TTL=56
Reply from 8.8.8.8: bytes=32 time=36ms TTL=56
Reply from 8.8.8.8: bytes=32 time=33ms TTL=56
```



```
Ping statistics for 8.8.8.8:  
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 34ms, Maximum = 40ms, Average = 35ms  
PS C:\Users\Administrator>
```

```
Install the latest PowerShell for new features and improvements  
PS C:\Users\Administrator> ping google.com  
  
Pinging google.com [172.217.25.174] with 32 bytes of data:  
Reply from 172.217.25.174: bytes=32 time=40ms TTL=114  
Reply from 172.217.25.174: bytes=32 time=37ms TTL=114  
Reply from 172.217.25.174: bytes=32 time=37ms TTL=114  
Reply from 172.217.25.174: bytes=32 time=37ms TTL=114  
  
Ping statistics for 172.217.25.174:  
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 37ms, Maximum = 40ms, Average = 37ms  
PS C:\Users\Administrator>
```