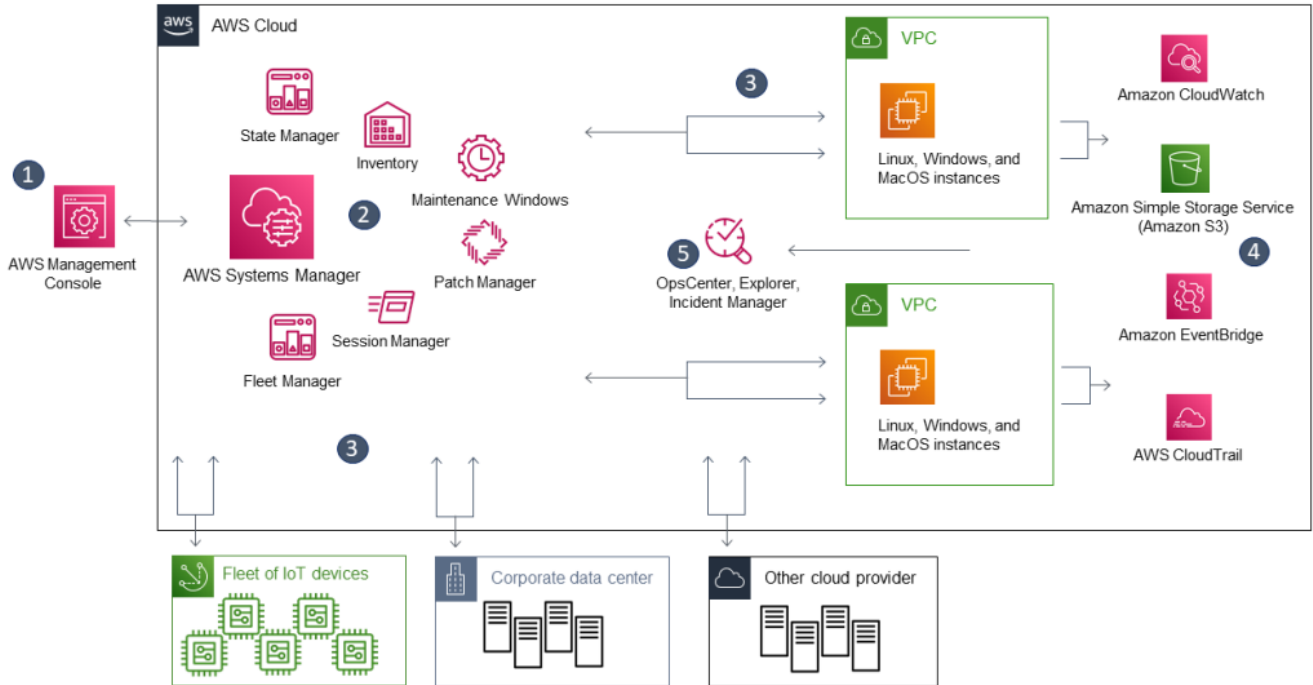


AWS SSM Network

VPC Private



- VPC Private Network Shell (VPN)

- SSM AWS , IGW EIP VPC

- EC2 SSH Password Key-Pair 가 .
 - Shell SSH .
 - AWS Client VPN , .

- AWS CLi AWS (VM / CT / Server)

AWS Console Cloudshell 가

- 1) Private Network IAM

- 2) EC2 IAM Role 가
- 3) EC2 SSM Agent
- 4) AWS CLI EC2

1. Key IAM

Add user



Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

[+ Add another user](#)

Select AWS access type

Select how these users will primarily access AWS. If you choose only programmatic access, it does NOT prevent users from accessing the an assumed role. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

- Select AWS credential type*
- Access key - Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.
 - Password - AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

Add user



✔ **Success**

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://hostway-bmt.signin.aws.amazon.com/console>

[Download .csv](#)

	User	Access key ID	Secret access key
▶	✔ SSM-Only	AKIAQ25632EPN7T2FFVT	***** Show

– IAM .

arn EC2 ID

```
{
  "Version": "2012-10-17",
  "Statement": [
```

```

{
  "Effect": "Allow",
  "Action": [
    "ssm:StartSession"
  ],
  "Resource": [
    "arn:aws:ec2:us-west-2:1234567890:instance/i-
ahe52134fxed6"
  ]
},
{
  "Effect": "Allow",
  "Action": [
    "ssm:TerminateSession"
  ],
  "Resource": [
    "arn:aws:ssm:*:*:session/${aws:username} - *"
  ]
}
]
}

```

Create policy

Review policy

Before you create this policy, provide the required information and review this policy.

Name*

Maximum 128 characters. Use alphanumeric and '+-,@-_' characters.

Summary

Filter			
Service	Access level	Resource	Request condition
Allow (1 of 321 services) Show remaining 320			
Systems Manager	Limited: Write	Multiple	None

2. IAM Custom Role

VPC

EC2

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Select trusted entity

Trusted entity type

AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account.

AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Common use cases

EC2

Allows EC2 instances to call AWS services on your behalf.

Lambda

Allows Lambda functions to call AWS services on your behalf.

Use cases for other AWS services:

Choose a service to view use case

- Role SSM InstanceCore

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Add permissions

Permissions policies (Selected 1/754)

Choose one or more policies to attach to your new role.

Filter policies by property or policy name and press enter

14 matches

"SSM" X Clear filters

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonEC2RoleforSSM	AWS m...	This policy will soon be deprecated. Please use AmazonSSMManagedInstanceCore policy to enable AWS Systems Manager servic...
<input type="checkbox"/>	AmazonSSMAutomationApproverAccess	AWS m...	Provides access to view automation executions and send approval decisions to automation waiting for approval
<input checked="" type="checkbox"/>	AmazonSSMManagedInstanceCore	AWS m...	The policy for Amazon EC2 Role to enable AWS Systems Manager service core functionality
<input type="checkbox"/>	AmazonSSMDirectoryServiceAccess	AWS m...	This policy allows SSM Agent to access Directory Service on behalf of the customer for domain-join the managed instance.
<input type="checkbox"/>	AmazonSSMFullAccess	AWS m...	Provides full access to Amazon SSM.
<input type="checkbox"/>	AmazonSSMAutomationRole	AWS m...	Provides permissions for EC2 Automation service to execute activities defined within Automation documents
<input type="checkbox"/>	AmazonSSMReadOnlyAccess	AWS m...	Provides read only access to Amazon SSM.
<input type="checkbox"/>	AmazonSSMMaintenanceWindowRole	AWS m...	Service Role to be used for EC2 Maintenance Window
<input type="checkbox"/>	AWSResourceAccessManagerReadOnlyAccess	AWS m...	Provides read only access to AWS Resource Access Manager.

- Role Name

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

SSM-EC2-Connection-Role

Maximum 128 characters. Use alphanumeric and '+=, @-_' characters.

Description

Add a short explanation for this policy.

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+=, @-_' characters.

Step 1: Select trusted entities

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "sts:AssumeRole"
8       ],
9       "Principal": {
10        "Service": [
11          "ec2.amazonaws.com"
12        ]
13      }
14    }
15  ]
16 }
```

EC2

가

EC2 > Instances > i-064f7ebc0bed75c74 > Modify IAM role

Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID
i-064f7ebc0bed75c74 (BAEK-Bastion)

IAM role
Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

SSM-EC2-Connection-Role [Create new IAM role](#)

3. EC2 SSM-Agent

```
Aamazon 2
[root@ip-10-10-20-201 ~]# sudo yum install -y
https://s3.region.amazonaws.com/amazon-ssm-region/latest/linux
_amd64/amazon-ssm-agent.rpm
```

```
Loaded plugins: extras_suggestions, langpacks, priorities,
update-motd
```

```
Cannot open:
https://s3.region.amazonaws.com/amazon-ssm-region/latest/linux
_amd64/amazon-ssm-agent.rpm. Skipping.
```

```
Error: Nothing to do
```

```
[root@ip-10-10-20-201 ~]# wget
https://s3.amazonaws.com/ec2-downloads-windows/SSMAgent/latest
/linux_amd64/amazon-ssm-agent.rpm
```

```
--2022-03-29 02:49:06--
```

```
https://s3.amazonaws.com/ec2-downloads-windows/SSMAgent/latest
/linux_amd64/amazon-ssm-agent.rpm
```

```
Resolving s3.amazonaws.com (s3.amazonaws.com)...
52.217.196.240
```

```
Connecting to s3.amazonaws.com
(s3.amazonaws.com)|52.217.196.240|:443... connected.
```

```
HTTP request sent, awaiting response... 200 OK
```

```
Length: 26724168 (25M) [binary/octet-stream]
```

```
Saving to: 'amazon-ssm-agent.rpm'
```

```
100%[=====
=====>] 26,724,168
```

```
12.7MB/s in 2.0s
```

```
2022-03-29 02:49:08 (12.7 MB/s) - 'amazon-ssm-agent.rpm' saved
[26724168/26724168]
```

```
[root@ip-10-10-20-201 ~]# rpm -Uvh amazon-ssm-agent.rpm
warning: amazon-ssm-agent.rpm: Header V4 RSA/SHA1 Signature,
key ID 693eca21: NOKEY
```

```
Preparing...
```

```
##### [100%]
```

```
Updating / installing...
```

```
1:amazon-ssm-agent-3.1.1080.0-1
```

```
##### [100%]
```

```
Created symlink from /etc/systemd/system/multi-
user.target.wants/amazon-ssm-agent.service to
```

```
/etc/systemd/system/amazon-ssm-agent.service.
```

```
[root@ip-10-10-20-201 ~]# systemctl enable amazon-ssm-agent
```

```
[root@ip-10-10-20-201 ~]# systemctl start amazon-ssm-agent
```

```
[root@ip-10-10-20-201 ~]# systemctl status amazon-ssm-agent
```

```
-- amazon-ssm-agent.service - amazon-ssm-agent
   Loaded: loaded (/etc/systemd/system/amazon-ssm-agent.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2022-03-29 02:53:54 UTC; 21s ago
     Main PID: 3355 (amazon-ssm-agent)
    CGroup: /system.slice/amazon-ssm-agent.service
           └─3355 /usr/bin/amazon-ssm-agent
           └─3382 /usr/bin/ssm-agent-worker
```

```
Mar 29 02:53:54 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO Agent will take identity f...EC2
```

```
Mar 29 02:53:54 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO [amazon-ssm-agent] using n...IPC
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO [amazon-ssm-agent] using n...IPC
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO [amazon-ssm-agent] using n...IPC
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO [amazon-ssm-agent] amazon-...0.0
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO [amazon-ssm-agent] OS: lin...d64
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:54 INFO [CredentialRefresher] Iden...her
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal amazon-ssm-agent[3355]: 2022-03-29 02:53:55 INFO [amazon-ssm-agent] [LongRu...ess
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal
amazon-ssm-agent[3355]: 2022-03-29 02:53:55 INFO [amazon-ssm-
agent] [LongRu...ted
```

```
Mar 29 02:53:55 ip-10-10-20-201.us-west-2.compute.internal
amazon-ssm-agent[3355]: 2022-03-29 02:53:55 INFO [amazon-ssm-
agent] [LongRu...nds
```

Hint: Some lines were ellipsized, use `-l` to show in full.

4. AWS Cli SSM EC2

```
CT  AWScli          IAM API Key
```

```
## Client IP
```

```
$ curl http://icanhazip.com
```

```
1.2.3.4
```

```
## AWScli
```

```
( ) SSM Session-Plugin
```

```
AWScli 1.16
```

```
$ curl
"https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o
"awscliv2.zip"
unzip awscliv2.zip
sudo ./aws/install
```

```
## Linux SSM Session-Manager Plugin
```

```
$ curl
"https://s3.amazonaws.com/session-manager-downloads/plugin/lat
est/linux_64bit/session-manager-plugin.rpm" -o "session-
manager-plugin.rpm"
```

```
$ rpm -Uvh session-manager-plugin.rpm
```

```
$ session-manager-plugin
```

```
The Session Manager plugin was installed successfully. Use the
AWS CLI to start a session.
```

```
##
```

```
$ aws configure
```

```
AWS Access Key ID [None]: AKIAQ25632EPN7T7FFVT
```

```
AWS Secret Access Key [None]:
```

```
yxQ61Yw/y5/kkZAU0fdXmKgZZc2azstSE1h+z4w2
```

```
Default region name [None]: us-west-2
```


Default output format [None]: json

SSM EC2

```
[root@node1 ~]# aws ssm start-session --target i-064f7ebc0bed75c74
```

Starting session with SessionId: SSM-Only-0a9041d6b13f368ce

```
sh-4.2$ bash
```

```
[ssm-user@ip-10-10-20-201 bin]$ ifconfig
```

```
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001
       inet 10.10.20.201 netmask 255.255.255.0 broadcast
10.10.20.255
```

```
       inet6 fe80::aa:14ff:fed7:abd prefixlen 64 scopeid
0x20<link>
```

```
       ether 02:aa:14:d7:0a:bd txqueuelen 1000 (Ethernet)
```

```
       RX packets 31846 bytes 8338621 (7.9 MiB)
```

```
       RX errors 0 dropped 0 overruns 0 frame 0
```

```
       TX packets 29180 bytes 6068149 (5.7 MiB)
```

```
       TX errors 0 dropped 0 overruns 0 carrier 0
collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
```

```
       inet 127.0.0.1 netmask 255.0.0.0
```

```
       inet6 ::1 prefixlen 128 scopeid 0x10<host>
```

```
       loop txqueuelen 1000 (Local Loopback)
```

```
       RX packets 0 bytes 0 (0.0 B)
```

```
       RX errors 0 dropped 0 overruns 0 frame 0
```

```
       TX packets 0 bytes 0 (0.0 B)
```

```
       TX errors 0 dropped 0 overruns 0 carrier 0
collisions 0
```

```
[ssm-user@ip-10-10-20-201 bin]$
```

<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>

https://docs.aws.amazon.com/ko_kr/systems-manager/latest/userguide/session-manager-working-with-install-plugin.html

https://docs.aws.amazon.com/ko_kr/systems-manager/latest/userguide/session-manager-getting-started.html

AMI

AWS

?

CMK

AMI AWS

가

(Terminated)

```
#
# AMI IAM IAM
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "ec2:ModifyImageAttribute"
      ],
      "Resource": [
        "arn:aws:ec2:us-
west-2::image/<0e9fcdb7ae40e8f4c>"
## id ( ami-xxxxxxxxxxxxxxxxxxxxxxx xxx
)
]
}
]
}
# KMS Key 가
# AMI KMS 가 AWS Account
```

다른 AWS 계정

- arn:aws:iam::431 126652:root

다른 AWS 계정 추가

```
#                                     CMK
#                                     IAM
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "kms:DescribeKey",
        "kms:ReEncrypt*",
        "kms:CreateGrant",
        "kms:Decrypt"
      ],
      "Resource": [
        "arn:aws:kms:us-west-2:891977874274:key/bc52517a-676b-4f1a-9d1a-d50241563abc"
      ]
    }
  ]
}
```

EC2 가

AWS Docs :
<https://aws.amazon.com/ko/blogs/security/how-to-share-encrypted-amis-across-accounts-to-launch-encrypted-ec2-instances/>

CentOS 7

APM

yum

가

가

yum

Image OS : CentOS 7.6.1810 Minimal

```
#
가
yum install -y epel-release

# Apache 2.4.52
RPMs
(codeit)

cd /etc/yum.repos.d/ && wget
https://repo.codeit.guru/codeit.el`rpm -q --qf "%{VERSION}"
$(rpm -q --whatprovides redhat-release)` .repo

# 가
yum info httpd
```

Loaded plugins: fastestmirror

Loading mirror speeds from cached hostfile

- * base: mirror.kakao.com
- * epel: hk.mirrors.thegigabit.com
- * extras: mirror.kakao.com
- * remi-safe: mirror.bebout.net
- * updates: mirror.navercorp.com

Installed Packages

```
Name       : httpd
Arch       : x86_64
Version    : 2.4.52
Release    : 1.codeit.el7
Size       : 4.3 M
Repo       : installed
From repo  : CodeIT
```

Summary : Apache HTTP Server
URL : <https://httpd.apache.org/>
License : ASL 2.0
Description : The Apache HTTP Server is a powerful, efficient,
and extensible
: web server.

Apache

```
yum --enablerepo=CodeIT install httpd mod_ssl
```

PHP 7.4 Remi Repository .

```
yum https://rpms.remirepo.net/enterprise/remi-release-7.rpm install
```

PHP 7.4

```
yum repolist all | grep -i php
```

```
yum --enablerepo=remi-php74 install php php-opcache php-gd  
php-mysql php-xml
```

MariaDB 10.3

```
cat << EOF | tee /etc/yum.repos.d/MariaDB.repo
```

```
[mariadb]
```

```
name = MariaDB
```

```
baseurl = http://yum.mariadb.org/10.3/centos7-amd64
```

```
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
```

```
gpgcheck=1
```

```
enabled=0
```

```
EOF
```

MariaDB 10.3

```
yum -y install --enablerepo=mariadb MariaDB-server MariaDB-  
client MariaDB-backup
```

APM

```
[root@localhost ~]# php -v
```

```
PHP 7.4.28 (cli) (built: Feb 15 2022 13:23:10) ( NTS )
```

```
Copyright (c) The PHP Group
```

```
Zend Engine v3.4.0, Copyright (c) Zend Technologies
```

```
with Zend OPcache v7.4.28, Copyright (c), by Zend  
Technologies
```

```
[root@localhost ~]# mysql --version
```

```
mysql Ver 15.1 Distrib 10.3.34-MariaDB, for Linux (x86_64)
```

using readline 5.1

```
[root@localhost ~]# httpd -v
```

```
Server version: Apache/2.4.52 (codeit)
```

```
Server built:   Dec 20 2021 11:29:54
```

Windows 2012

Windows Server 2012

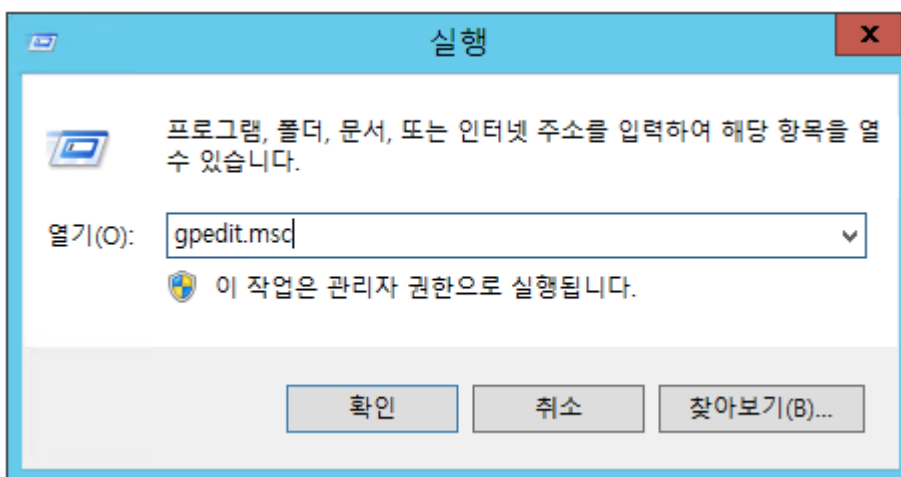
가 가 .

Windows 2012 1

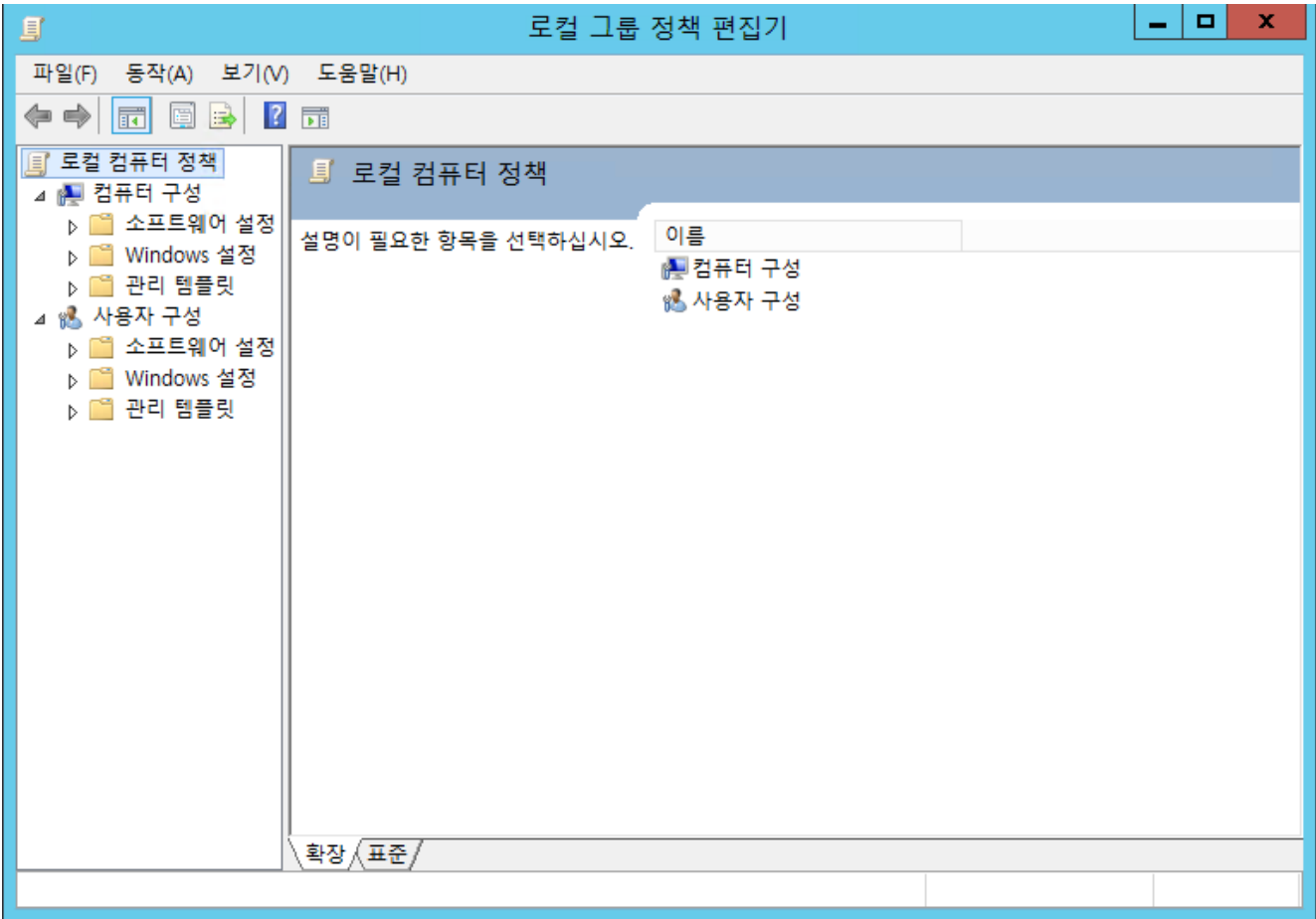
Windows Server 2012

Windows Server 2012

gpedit.msc

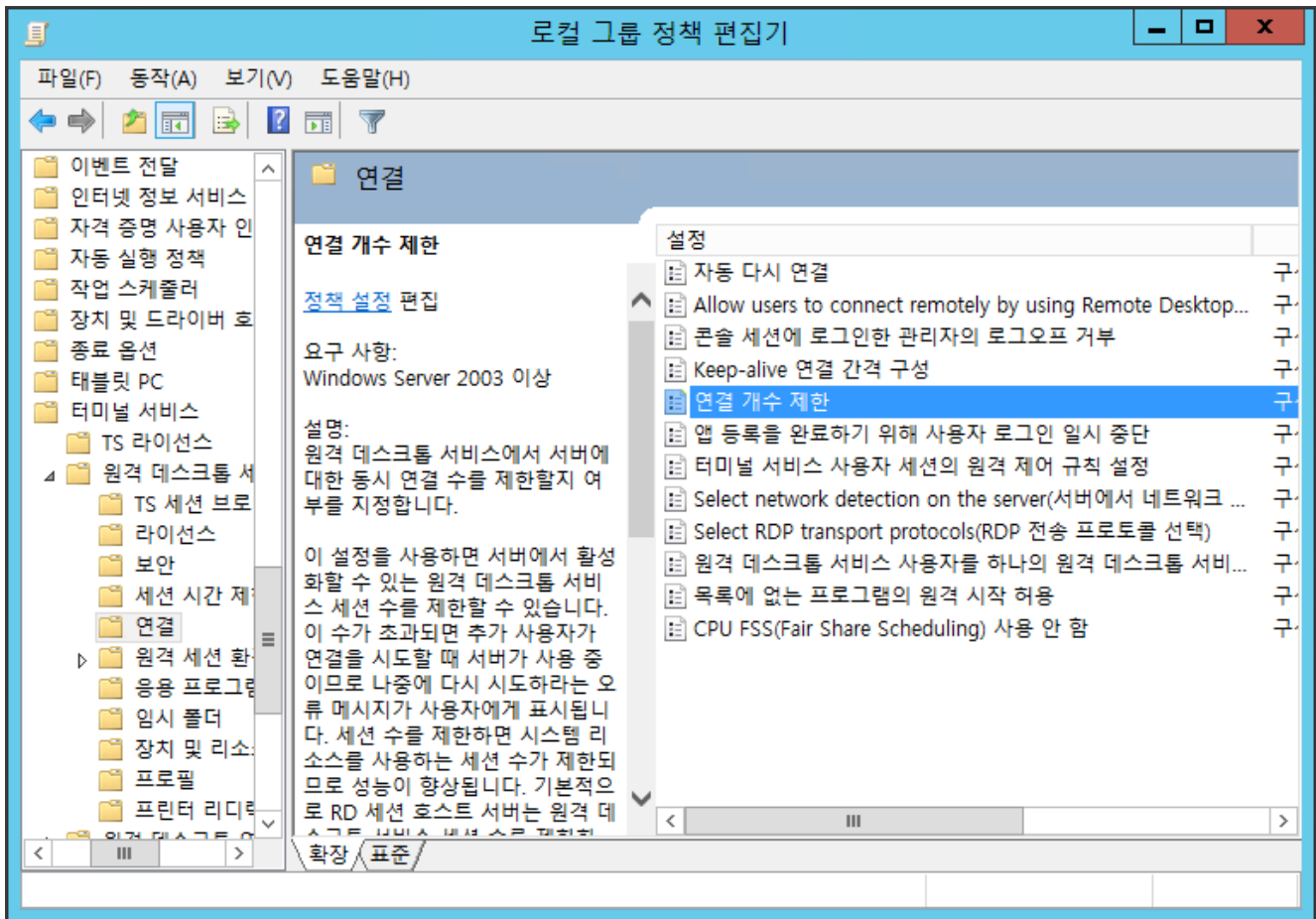


가 .

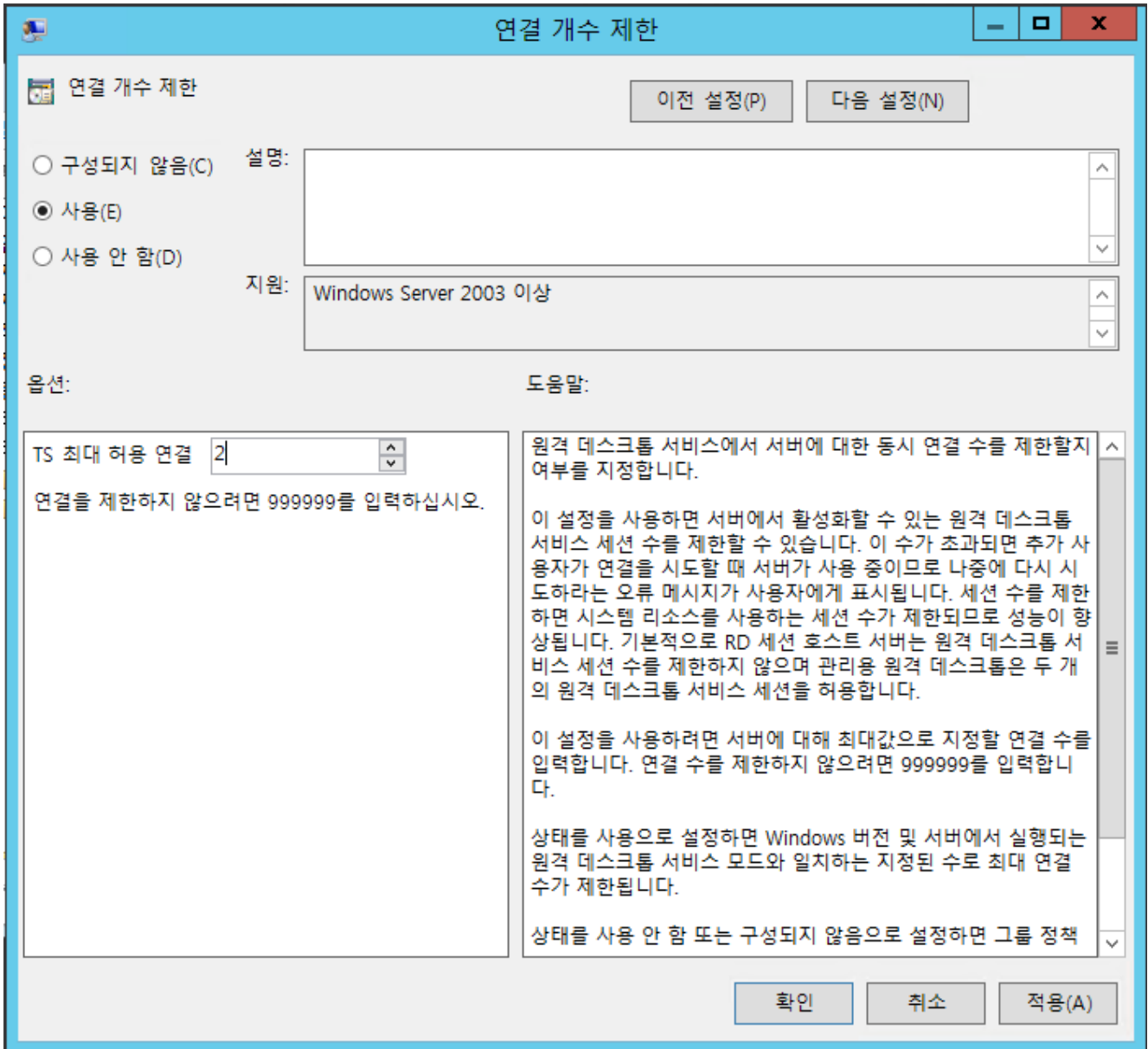


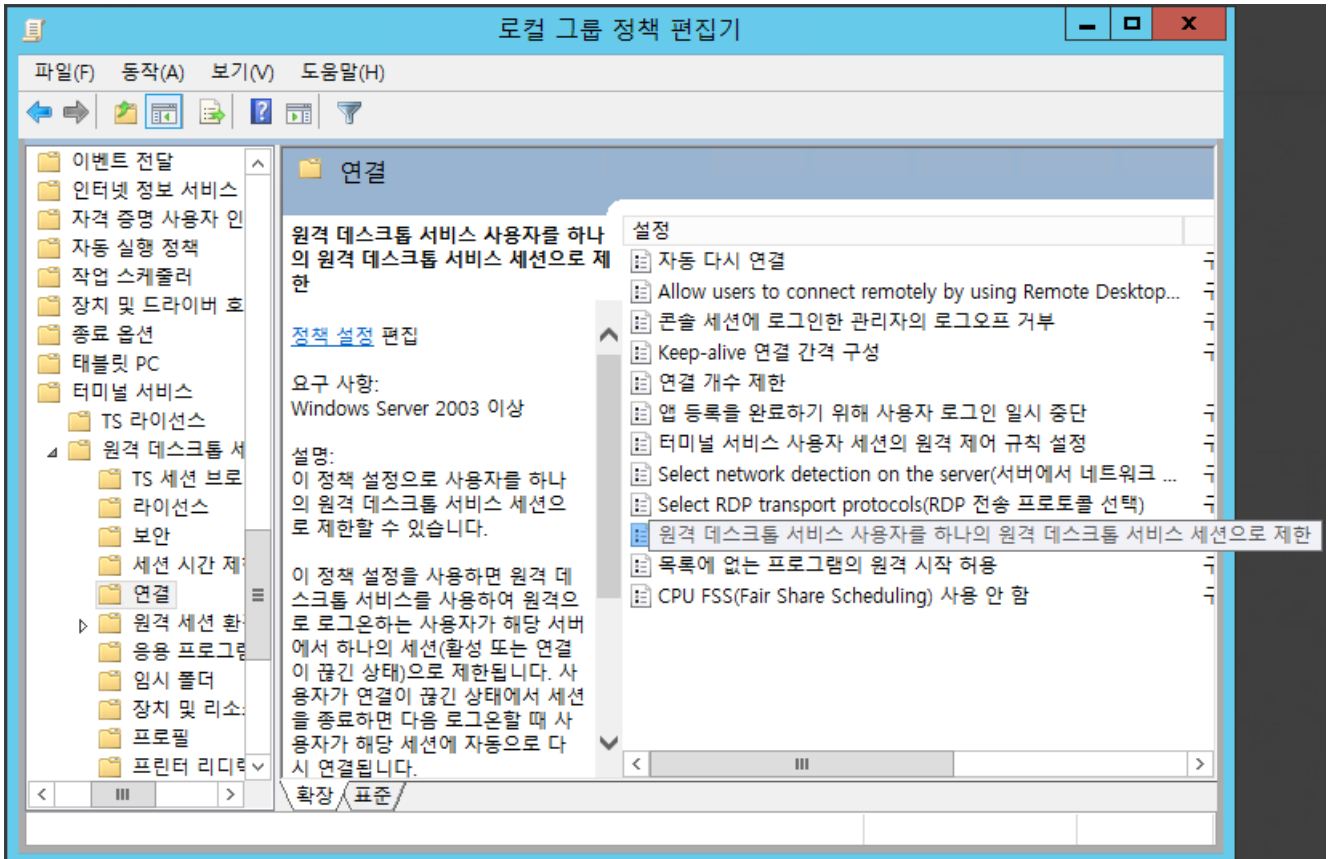
[] - [] - [] - [] - [] - [] - [Windows

[]



[]





원격 데스크톱 서비스 사용자를 하나의 원격 데스크톱 서비스 세션으로 제한

원격 데스크톱 서비스 사용자를 하나의 원격 데스크톱 서비스 세션으로 제한 이전 설정(P) 다음 설정(N)

구성되지 않음(C) 설명:

사용(E)

사용 안 함(D)

지원:

옵션: 도움말:

이 정책 설정으로 사용자를 하나의 원격 데스크톱 서비스 세션으로 제한할 수 있습니다.

이 정책 설정을 사용하면 원격 데스크톱 서비스를 사용하여 원격으로 로그인하는 사용자가 해당 서버에서 하나의 세션(활성 또는 연결이 끊긴 상태)으로 제한됩니다. 사용자가 연결이 끊긴 상태에서 세션을 종료하면 다음 로그인할 때 사용자가 해당 세션에 자동으로 다시 연결됩니다.

이 정책 설정을 사용하지 않으면 사용자가 원격 데스크톱 서비스를 사용하여 원하는 수만큼 동시 원격 연결을 설정할 수 있습니다.

이 정책 설정을 구성하지 않으면 그룹 정책 수준에서 이 정책 설정이 지정되지 않습니다.

확인 취소 적용(A)

원격 데스크톱 서비스 사용자를 하나의 원격 데스크톱 서비스 세션으로 제한

원격 데스크톱 서비스 사용자를 하나의 원격 데스크톱 서비스 세션으로 제한 이전 설정(P) 다음 설정(N)

구성되지 않음(C) 설명:

사용(E)

사용 안 함(D) 지원: Windows Server 2003 이상

옵션: 도움말:

이 정책 설정으로 사용자를 하나의 원격 데스크톱 서비스 세션으로 제한할 수 있습니다.

이 정책 설정을 사용하면 원격 데스크톱 서비스를 사용하여 원격으로 로그인하는 사용자가 해당 서버에서 하나의 세션(활성 또는 연결이 끊긴 상태)으로 제한됩니다. 사용자가 연결이 끊긴 상태에서 세션을 종료하면 다음 로그인할 때 사용자가 해당 세션에 자동으로 다시 연결됩니다.

이 정책 설정을 사용하지 않으면 사용자가 원격 데스크톱 서비스를 사용하여 원하는 수만큼 동시 원격 연결을 설정할 수 있습니다.

이 정책 설정을 구성하지 않으면 그룹 정책 수준에서 이 정책 설정이 지정되지 않습니다.

확인 취소 적용(A)

```
관리자: 명령 프롬프트
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>gpupdate /force
정책을 업데이트하는 중...

컴퓨터 정책 업데이트가 완료되었습니다.
사용자 정책 업데이트가 완료되었습니다.

C:\Users\Administrator>
```

CentOS 7

(1)

CentOS 7

가

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가

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LVM : Default

가 ,

가

:

LVM

가 ,

xf

1.

(OS

)

ip addr

vi /etc/sysconfig/network-scripts/ifcfg-eth0

. . .

BOOTPROTO=none

. . .

IPV6INIT=no

IPV6_AUTOCONF=no

IPV6_DEFROUTE=no

IPV6_FAILURE_FATAL=no

IPV6_ADDR_GEN_MODE=stable-privacy

. . .

ONBOOT=yes

/

yes

IPV6_PRIVACY=no

IPADDR=192.168.122.243

NETMASK=255.255.255.0

GATEWAY=192.168.122.1

DNS1=8.8.8.8

DNS2=8.8.4.4

systemctl restart network

ip addr

eth0 IP

ping -c 4 google.com

#

--- google.com ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3094ms
rtt min/avg/max/mdev = 82.692/83.010/83.554/0.492 ms

2.

```
CentOS 7      timedatectl      ,      .
```

```
# timedatectl
```

```
    RTC time :  
    NTP enabled : NTP  
    NTP synchronized : NTP  
    RTC in local TZ : RTC    Time zone
```

```
# timedatectl list-timezones | grep -i Asia*
```

```
# timedatectl set-timezone Asia/Seoul
```

```
# timedatectl
```

3. Hostname

```
CentOS 7      hostname    localhost.localdomain
```

```
# hostnamectl  
Static hostname: localhost.localdomain
```

```
# hostnamectl set-hostname newhostname
```

```
# hostnamectl  
Static hostname: newhostname
```

4. SELinux


```
SELinux , disabled(= )
```

```
# vi /etc/sysconfig/selinux
```

```
. . .  
SELINUX=disabled . . .
```

```
# shutdown -r now
```

```
# getenforce  
Disabled
```

5. root 가

```
root
```

```
su
```

```
# ps -ef | grep sshd  
# systemctl enable sshd
```

```
# vi /etc/ssh/sshd_config
```

```
. . .  
PermitRootLogin=no  
. . .
```

```
# systemctl restart sshd
```

6.

```
# vi /etc/profile.d/timeout.sh  
TMOUT=600  
export TMOUT
```

```
chmod +x /etc/profile.d/timeout.sh
```

```
# source /etc/profile  
# echo $TMOUT  
600
```

7.

history

```
# vi /etc/profile.d/history.sh
```

```
HISTTIMEFORMAT="%F %T -- "  
export HISTTIMEFORMAT
```

```
# chmod 644 /etc/profile.d/history.sh  
# source /etc/profile.d/history.sh
```

```
# hisotry
```

```
999 2022-04-06 14:50:10 -- vi /etc/profile.d/history.sh  
1000      2022-04-06 14:50:19 -- chmod 644  
/etc/profile.d/history.sh  
1001 2022-04-06 14:50:28 -- source /etc/profile.d/history.sh  
1002 2022-04-06 14:50:30 -- history
```

8.

```
# localectl
```

```
System Locale: LANG=en_US.UTF-8  
    VC Keymap: us  
    X11 Layout: us
```

```
# localectl list-locales | grep -i kr
ko_KR
ko_KR.euckr
ko_KR.utf8

# localectl set-locale LANG=ko_KR.UTF-8
# localectl set-keymap kr
# localectl set-x11-keymap kr

# localectl
  System Locale: LANG=ko_KR.UTF-8
    VC Keymap: kr
    X11 Layout: kr
```