

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



- IAM .

arn EC2 ID

{

"Version": "2012-10-17",

```

    "Statement": [
      {
        "Effect": "Allow",
        "Action": [
          "ssm:StartSession"
        ],
        "Resource": [
          "arn:aws:ec2:us-west-2:1234567890:instance/i-
ah52134fxed6"
        ]
      },
      {
        "Effect": "Allow",
        "Action": [
          "ssm:TerminateSession"
        ],
        "Resource": [
          "arn:aws:ssm:*:*:session/${aws:username}-*"
        ]
      }
    ]
  }
}

```



2. IAM Custom Role

VPC

EC2



- Role SSM InstanceCore



- Role Name



EC2 가



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]:
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
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