Using SSH over SSM

Pre-Requisites

- 1. Install AWS CLI
- 2. Install Session Manager Plugin for AWS CLI
- 3. Have personal AWS Key
- 4. SSH key-pair uploaded to the server
- 5. Make sure following IAM policy is applied and allowed for the user

```
1 {
 2
        "Version": "2012-10-17",
 3
       "Statement": [
 4
           {
 5
                "Effect": "Allow",
 6
                "Action": "ssm:StartSession",
 7
                "Resource": [
 8
                    "arn:aws:ec2:region:987654321098:instance/i-02573cafcfEXAMPLE",
                    "arn:aws:ssm:*:*:document/AWS-StartSSHSession"
9
10
               1
11
12
       ]
13 }
```

Instructions

- 1. Make sure all the pre-requisites are installed, and the CLI is configured.
- 2. Update SSH configurations
 - a. On Windows
 - i. The SSH configuration file is typically located at $c:\scalebox{ }c:\scalebox{ }c:$

```
ii. 1 # SSH over Session Manager
2 host i-* mi-*
3 ProxyCommand C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe "aws ssm start-session --target
```

- b. On Mac/Linux
 - i. The SSH configuration file is typically located at ~/.ssh/config.

```
ii. 1 # SSH over Session Manager
2 host i-* mi-*
3 ProxyCommand sh -c "aws ssm start-session --target %h --document-name AWS-StartSSHSession --parameter
```

- 3. Go to Powershell (for Windows) / Terminal (on Mac/Linux)
- 4. Configure AWS CLI to use your Access Key. Save it as profile by appending (--profile "ProfileName")

5. Use following command to connect to the Servers using SSH

```
1 ssh -i /path/my-key-pair.pem username@instance-id
```

6. Use following command to connect using only SSM. You can also append (--profile "ProfileName")

```
1 aws ssm start-session --target "InstanceID"
```

articles

Step 8: (Optional) Allow and controlling permissions for SSH connections through Session Manager - AWS Systems Manager (amazon.com)

Start a session - AWS Systems Manager (amazon.com)