

Access a URL using Tunnelling through AWS SSM

This document describes how to setup tunnel to an EC2 instance without using SSH keys/Bastion host.

Prerequisites(Actionable for User):

- (Only for Windows)Install a terminal(like Mobaxterm) on user machine using [this](#) link, as this works on Linux/Mac systems.
- AWS CLI and SSM setup with SSM plugin should be installed on system.

Setup Process:

1. Create SSH key pair on your system (Skip if you already have this setup).

To **generate a pair of SSH key codes**, enter the commands:

```
mkdir -p $HOME/.ssh
```

```
chmod 0700 $HOME/.ssh
```

```
ssh-keygen -t rsa -b 4096
```

2. Create a new file named config in .ssh directory created above.

```
nano $HOME/.ssh/config
```

3. Paste below in the config file and save.

```
host i-*  
  IdentityFile ~/.ssh/id_rsa  
  ProxyCommand sh -c "aws ec2-instance-connect send-ssh-public
```

4. Configuration is done. Now you can take access using the below commands:

- If the URL starts with `http`, use below steps:

Tunnel to specific URL through bastion

```
ssh tunneluser@i-021fa8d23587645c9 -L 7777:<hostname to access>:80 -CfNq
```

e.g.

```
ssh tunneluser@i-021fa8d23587645c9 -L 7777:matsya-dev.aws.prodigaltech.com:80 -CfNq
```

Now you can access the required URLs in the browser at `http://localhost:7777/`



For some applications the raw URL can show a blank page. Use the full context path in the browser to test

```
http://localhost:7777/internal/api/v1/matsya/dev/docs
```

- If the URL starts with `https`, use below steps:

Add an entry (shown as below) in hosts file of your system to map the URL, in this case is matsya-prod.us-east-2.aws.prodigaltech.com to 127.0.0.1. Hosts file can be found at `/etc/hosts` on Linux and Mac devices and

`c:\Windows\System32\Drivers\etc\hosts` on Windows devices

```
127.0.0.1 matsya-prod.us-east-2.aws.prodigaltech.com
```

Tunnel to specific URL through bastion

```
ssh tunneluser@i-021fa8d23587645c9 -L 7777:<hostname to access>:443 -CfNq
```

e.g.

```
ssh tunneluser@i-021fa8d23587645c9 -L 7777:matsya-prod.us-east-2.aws.prodigaltech.com:443 -CfNq
```

Now you can access the required URLs in the browser as below



For some applications the raw URL can show a blank page. Use the full context path in the browser to test

```
https://matsya-prod.us-east-2.aws.prodigaltech.com:7777/inter
```