Connect EC2 Instance using SSM

-Launch A Linux Virtual Machine - AWS CloudFormation

-Install SSM Agent

-IAM Role for Session Manager - AWS CF

-Clean up resources

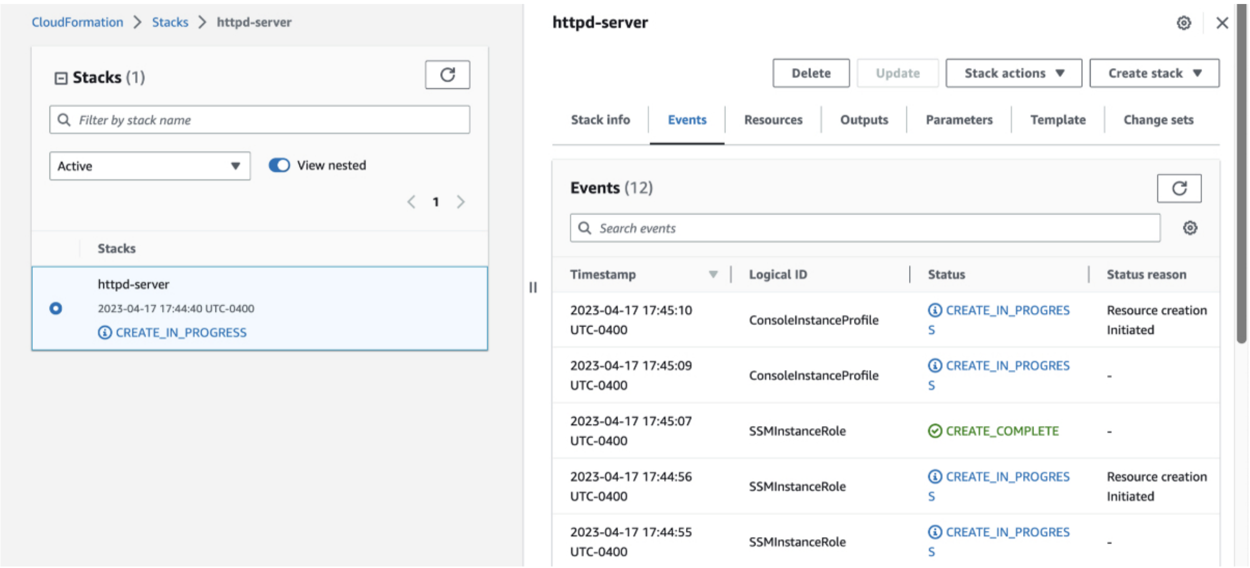
YAML Template

```
https://github.com/diatmpravin/The-Cloud-Advisory/raw/master/Cloudformation/ec2/basic-amazon-ec2-instance-ssm.yaml
```

(You may have to replace the VPC & Subnet ID with your own)

First, we will create a keypair for the lab

Then, we will upload our template to the stack creator in AWS CloudFormation.



httpd-server
2023-04-17 17:44:40 UTC-0400
CREATE_IN_PROGRESS

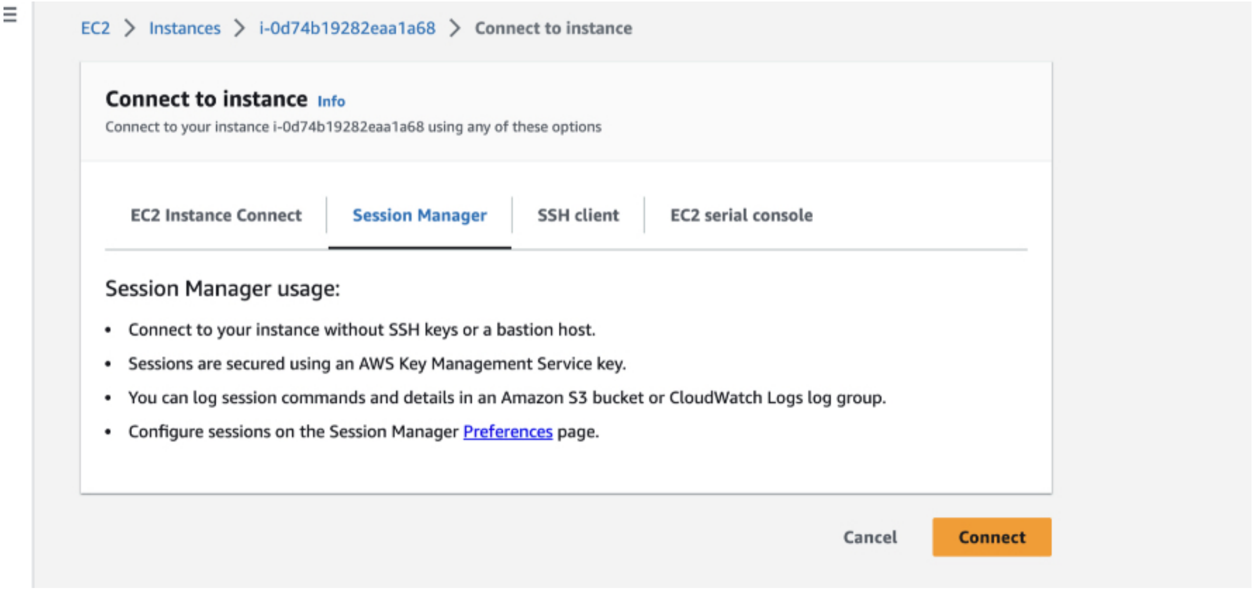
httpd-server

Events (12)

Timestamp	Logical ID	Status	Status reason
2023-04-17 17:45:10 UTC-0400	ConsoleInstanceProfile	CREATE_IN_PROGRESS	Resource creation Initiated
2023-04-17 17:45:09 UTC-0400	ConsoleInstanceProfile	CREATE_IN_PROGRESS	-
2023-04-17 17:45:07 UTC-0400	SSMInstanceRole	CREATE_COMPLETE	-
2023-04-17 17:44:56 UTC-0400	SSMInstanceRole	CREATE_IN_PROGRESS	Resource creation Initiated
2023-04-17 17:44:55 UTC-0400	SSMInstanceRole	CREATE_IN_PROGRESS	-

After that, we will connect with SSM (Session Manager)

If you don't have SSM installed you can do that here



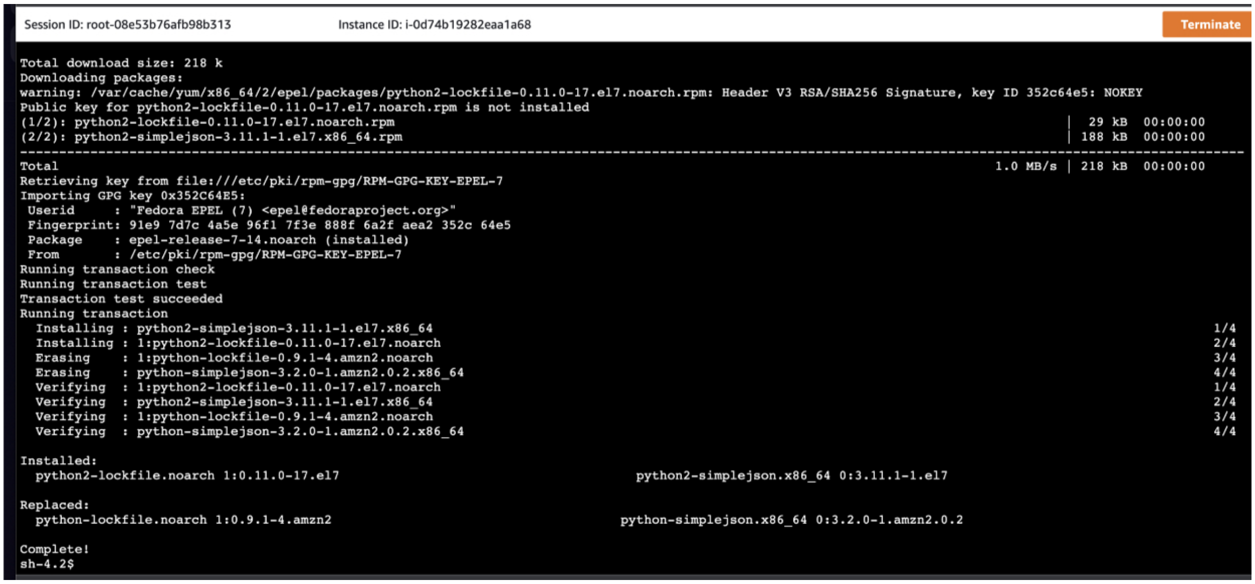
Connect to instance

Connect to your instance i-0d74b19282eaa1a68 using any of these options

Session Manager usage:

- Connect to your instance without SSH keys or a bastion host.
- Sessions are secured using an AWS Key Management Service key.
- You can log session commands and details in an Amazon S3 bucket or CloudWatch Logs log group.
- Configure sessions on the Session Manager Preferences page.

Once connected, we will run `sudo yum update -y` to make sure everything is good to go.



Session ID: root-08e53b76afb98b313   Instance ID: i-0d74b19282eaa1a68

```
Total download size: 218 k
Downloading packages:
warning: /var/cache/yum/x86_64/2/epel/packages/python2-lockfile-0.11.0-17.el7.noarch.rpm: Header V3 RSA/SHA256 Signature, key ID 352c64e5: NOKEY
Public key for python2-lockfile-0.11.0-17.el7.noarch.rpm is not installed
(1/2): python2-lockfile-0.11.0-17.el7.noarch.rpm                                                                                       |  29 kB  00:00:00
(2/2): python2-simplejson-3.11.1-1.el7.x86_64.rpm                                                                                      | 188 kB  00:00:00
--------------------------------------------------------------------------------------------------------------------------------------------------------------
Total                                                                                                                         1.0 MB/s | 218 kB  00:00:00
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Importing GPG key 0x352C64E5:
 Userid     : "Fedora EPEL (7) <epel@fedoraproject.org>"
 Fingerprint: 91e9 7d7c 4a5e 96f1 7f3e 888f 6a2f aea2 352c 64e5
 Package    : epel-release-7-14.noarch (installed)
 From       : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : python2-simplejson-3.11.1-1.el7.x86_64                                                                                                     1/4
  Installing : 1:python2-lockfile-0.11.0-17.el7.noarch                                                                                                    2/4
  Erasing    : 1:python-lockfile-0.9.1-4.amzn2.noarch                                                                                                     3/4
  Erasing    : python-simplejson-3.2.0-1.amzn2.0.2.x86_64                                                                                                 4/4
  Verifying  : 1:python2-lockfile-0.11.0-17.el7.noarch                                                                                                    1/4
  Verifying  : python2-simplejson-3.11.1-1.el7.x86_64                                                                                                     2/4
  Verifying  : 1:python-lockfile-0.9.1-4.amzn2.noarch                                                                                                     3/4
  Verifying  : python-simplejson-3.2.0-1.amzn2.0.2.x86_64                                                                                                 4/4

Installed:
  python2-lockfile.noarch 1:0.11.0-17.el7                                       python2-simplejson.x86_64 0:3.11.1-1.el7

Replaced:
  python-lockfile.noarch 1:0.9.1-4.amzn2                                      python-simplejson.x86_64 0:3.2.0-1.amzn2.0.2

Complete!
sh-4.2$
```

Now that this is completed we will clean up our resources!