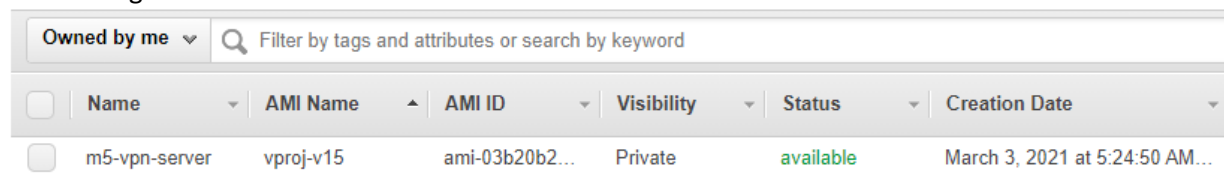


Milestone 5 Goal

Create an AMI that can be launched on EC2 as a VPN share images of you testing it.

Solution

- Using Milestone 4 automated scripts, create Security Group and EC2 Instance (referred here as the VPN Server EC2 instance).
- Create Elastic IP address and associate it with the VPN Server EC2 Instance.
- SSH into the VPN Server EC2 Instance and configure the [Interface] section of the `/etc/wireguard/wg0.conf`.
- Create an AMI Image:



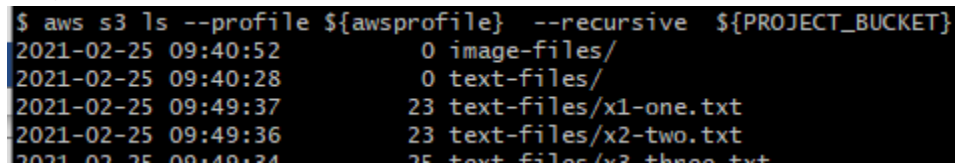
<input type="checkbox"/>	Name	AMI Name	AMI ID	Visibility	Status	Creation Date
<input type="checkbox"/>	m5-vpn-server	vproj-v15	ami-03b20b2...	Private	available	March 3, 2021 at 5:24:50 AM...

- Terminate the VPN Server EC2 Instance

Test

The following steps can be repeat a few times, to demonstrate the reusable AMI as the VPN Server:

- Use the above AMI to create the VPN Server EC2 Instance and associate the same Elastic IP address.
- SSH into the VPN server EC2 instance:
 - Update the `/etc/wireguard/wg0.conf` with [Peer]'s PublicKey and AllowedIPs.
 - `systemctl restart wg-quick@wg0`
- No changes in the laptop VPN WireGuard.
- With no changes to AWS S3 Bucket (containing policy to let securely go through VPN Server, see Milestone 3), access the S3 bucket.



```
$ aws s3 ls --profile ${awsprofile} --recursive ${PROJECT_BUCKET}
2021-02-25 09:40:52      0 image-files/
2021-02-25 09:40:28      0 text-files/
2021-02-25 09:49:37    23 text-files/x1-one.txt
2021-02-25 09:49:36    23 text-files/x2-two.txt
2021-02-25 09:40:34    25 text-files/x3-three.txt
```

- Terminate the VPN Server EC2 Instance.

Summary

Created an AMI containing the VPN Server. With this AMI, new VPN Server can be instantiated with minimal configuration.