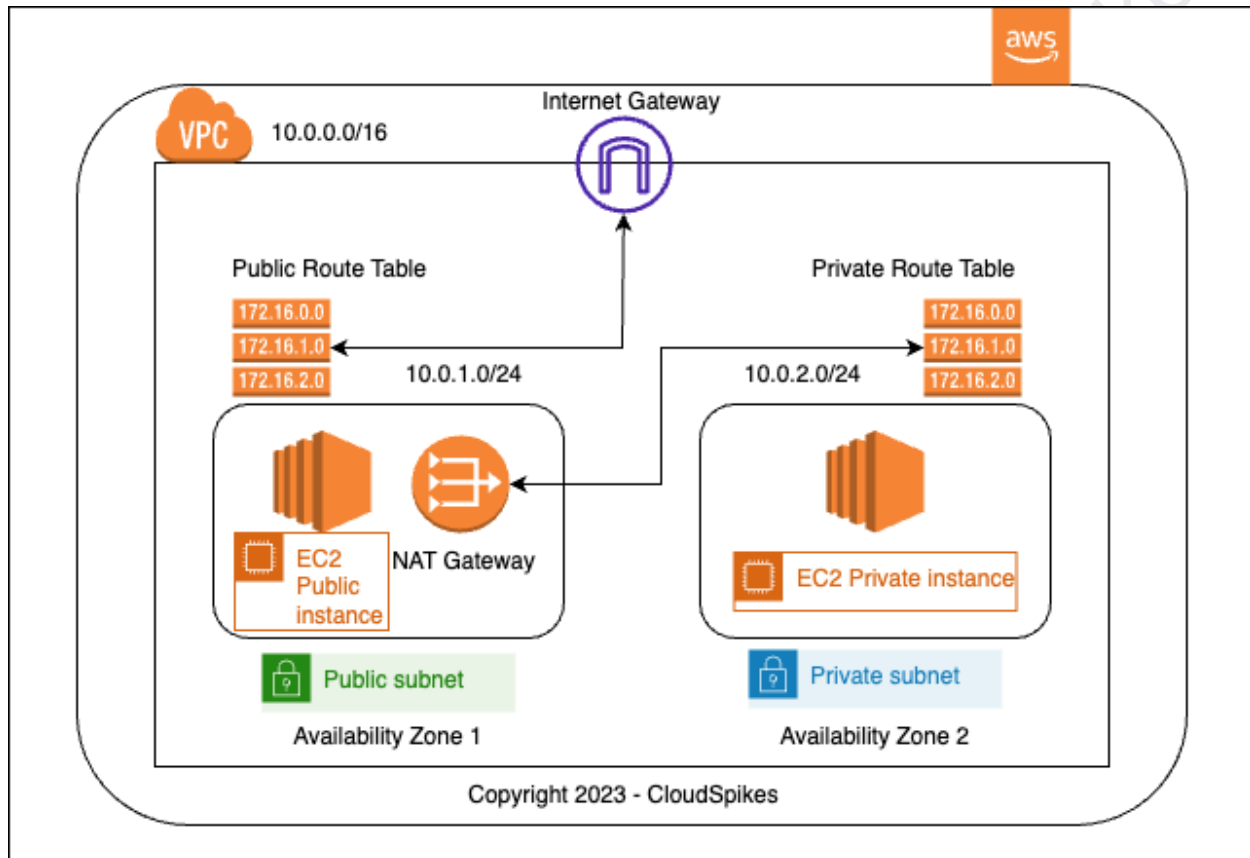


#5 Task: Create Set up AWS EC2 Instances in Pub & Private Subnets. Expose Website hosted on Private EC2 instance via Public EC2 instance via Nginx or Apache Web Server.



1. Testing the EC2 Instances in the recently created VPC Network configurations.

Public Instance:

- right click on box next to name of instance and click connect

ssh steps to connecting to public instance

```

__| __|_ )
_| (   /  Amazon Linux 2 AMI
___|\___|___|

```

```
ssh -i keypair.pem ec2-user@private-ip-address
```

2. Conclusion.

- In conclusion, the machines on a private subnet can access the Internet because the default route on a private subnet is not the VPC “Internet Gateway” object — it is an EC2 instance configured as a NAT instance. A NAT instance is an instance on a public subnet with a public IP, and specific configuration.

Steps to setup Apache Web Server HTTPd on Ubuntu 22.04:

```
$ sudo apt update
$ sudo apt install apache2 -y
$ sudo systemctl status apache2
```

Steps to setup Nginx Web Server on Ubuntu 22.04:

```
$ sudo apt update
$ sudo apt install nginx -y
$ systemctl status nginx
```

Once Nginx/Apache is setup, you can replace default index.html with your website specific index file.

To do so, first you need to SCP the website template folder to the EC2 server and then replace the default Nginx/Apache index.html with the index file of your website along with it's supporting files/folders such as CSS, JavaScript, Media files, etc.