The task for this week would be to create a VPC

3 subnets need to be created inside it

add igw via route table for the subnets

Create a new NACL which will be dedicated for 1 subnet . Default NACL for other 2

Launch EC2 instance in each subnet , and check if we are able to connect to them

Additionally also check if we are able to ping the other instance from each other using private ip (modify the security group accordingly )

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\*Access S3 Buckets using VPC Endpoint for S3 Service from Private Instance\*

1. Create a new VPC, IGW and attach to VPC, Create two subnets in your VPC: one private and one public.

2. Launch one instance, the bastion instance, in the public subnet. Launch another instance, the private instance, in the private subnet. You will use the bastion instance to reach the private instance. The private instance will be used to access Amazon S3.

3. Configure security groups such that the bastion instance to be accessible over SSH 22 from your IP address only. The private instance should be accessible over SSH 22 from the bastion instance only.

4. Create a route table for both the private and public subnet. Associate the route tables

with their respective subnets. Associate IGW route for Public Route Table.

5. Create an Amazon S3 bucket, Upload an object such as a text file into the bucket.

6. Use Secure Shell (SSH) to access the bastion instance. Access S3 bucket from Public Instance and this should work as you are using the Internet to access the Amazon S3 endpoint. SSH to private instance,You should not be able to access the Amazon S3 file from the private instance.

7. Create VPC Endpoint Gateway for S3 and Specify the private subnet in your VPC that will use the endpoint.Check the route table entries for the private subnet. It should now include a route to the endpoint for the Amazon S3 prefix list.

8. Access the Amazon S3 object from your private instance.

An Architecture Diagram using [draw.io](http://draw.io/) for above setup is to be created and shared here.