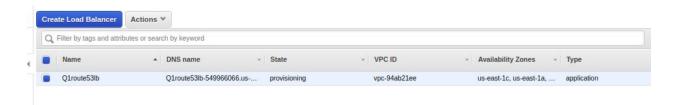
ASSESSMENT ON S3, ROUTE53 AND DNS

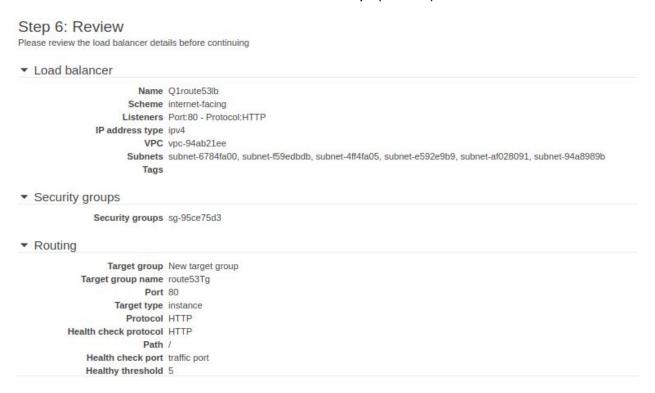


1)Create a private hosted zone named "ttn-internal.com" attached to the default vpc. and created a cname record "myloadbalance.ttn-internal.com" for any load balancer pointed to its dns. Do reverse lookup for the record from any instance of the vpc and share the result.

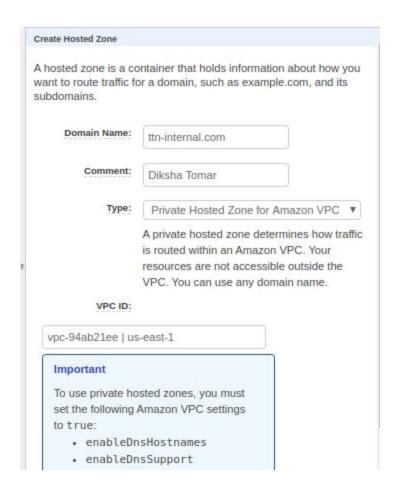
STEP 1:Create a load balancer

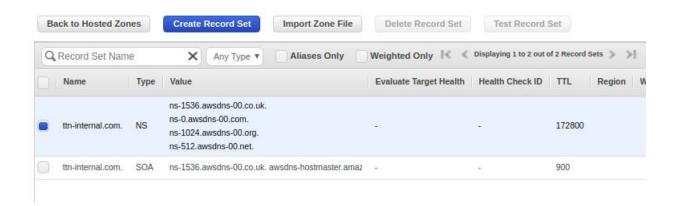


STEP 2: Attach the instance to load balancer in vpc(default)

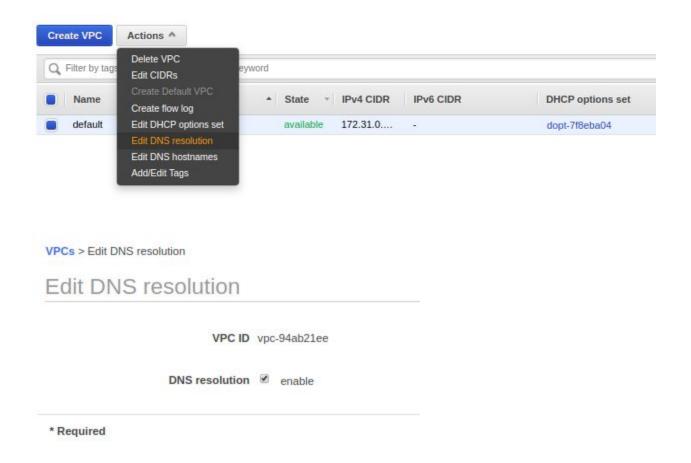


STEP 3: Create a private Hosted Zone named "ttn-internal.com" in Route53

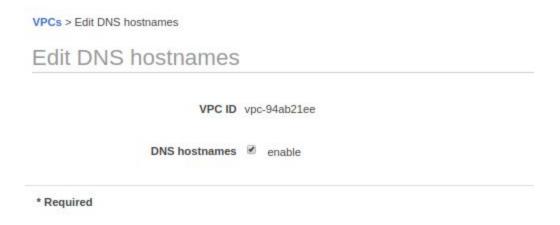




STEP 4: Enable DNS Resolution in VPC

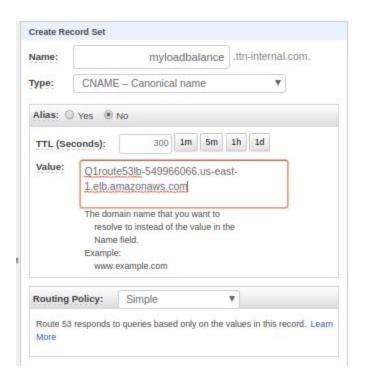


STEP 5: EnableDNS Hostname in VPC



STEP 6: Route53 > Create Record Set





STEP 7: SSH into your instance and then run nslookup command

*nslookup (name server lookup) is a tool used to perform DNS lookups in Linux. It is used to display DNS details, such as the IP address of a particular computer, the MX records for a domain or the NS servers of a domain.

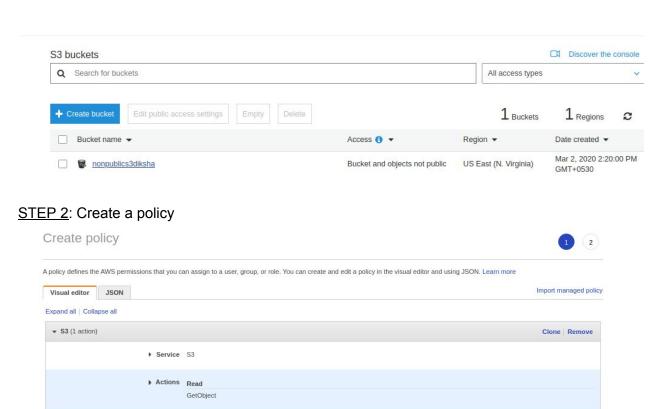
```
ubuntu@ip-172-31-93-142:~$ nslookup myloadbalance.ttn-internal.com
Server: 127.0.0.53
Address: 127.0.0.53#53

Non-authoritative answer:
myloadbalance.ttn-internal.com canonical name = q1route53lb-549966066.us-east-1
.elb.amazonaws.com.
Name: q1route53lb-549966066.us-east-1.elb.amazonaws.com
Address: 54.175.84.243
Name: q1route53lb-549966066.us-east-1.elb.amazonaws.com
Address: 52.200.152.194
ubuntu@ip-172-31-93-142:~$
```

2) Create a non-public S3 bucket and give appropriate permissions to a server to download objects from the bucket but not to put or delete anything in it.

STEP 1: Create a S3 bucket with no public access

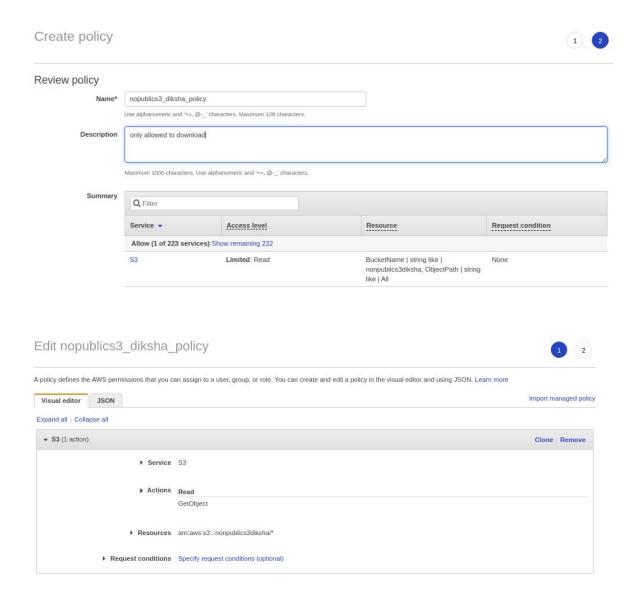
▶ Request conditions Specify request conditions (optional)



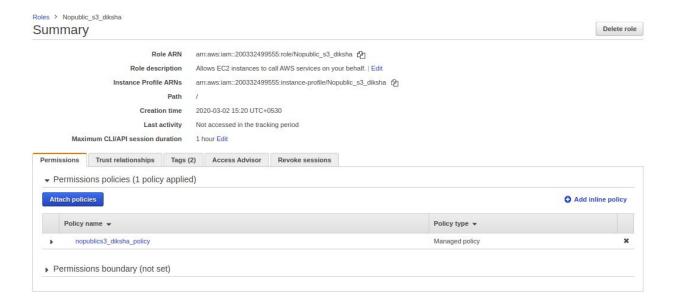
arn:aws:s3:::nonpublics3diksha/*
Add ARN to restrict access

Any

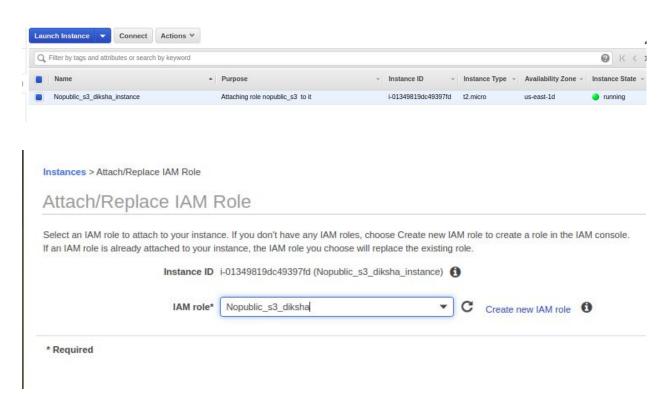
EDIT 3



STEP 3: Create a role and attach the above policy



STEP 4: Attach it to your instance



STEP 5: Is into your s3 bucket. You will see that access is denied

STEP 6: Download the object from that bucket and you will be allowed to do so.

```
ubuntu@ip-172-31-36-78:~$ aws s3api get-object --bucket nonpublics3diksha --key "giphy.gif" giphy
{
         "AcceptRanges": "bytes",
         "LastModified": "Mon, 02 Mar 2020 10:08:53 GMT",
         "ContentLength": 2046036,
         "ETag": "\"1fdf64e2ede6f751fd668788a6900b6d\"",
         "ContentType": "image/gif",
         "Metadata": {}
}
ubuntu@ip-172-31-36-78:~$
```