S3,Route 53,DNS

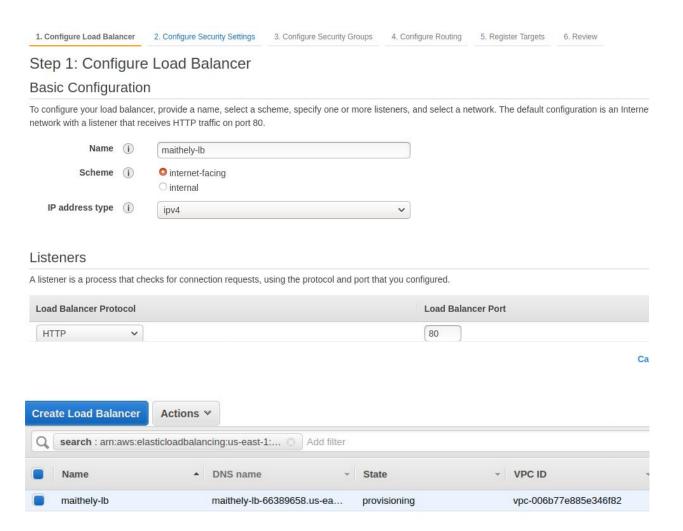
ASSIGNMENT



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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.

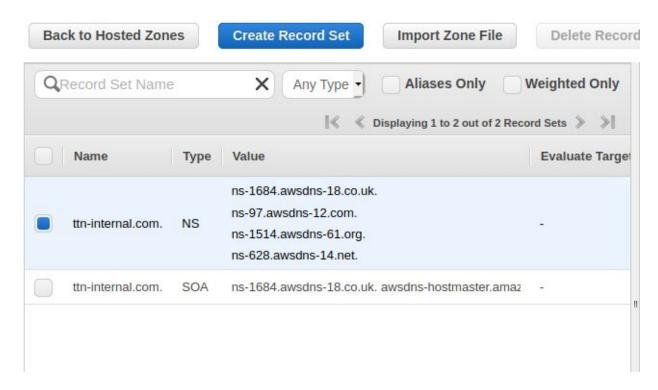
Firstly create a load balancer in the default VPC



Now create a private hosted zone in route 53 named "ttn-internal.com"

Domain Name: ttn-internal.com Comment: maithely Type: Private Hosted Zone for Amazon VPC A private hosted zone determines how traffic is routed within an Amazon VPC. Your resources are not accessible outside the VPC. You can use any domain name. VPC ID: vpc-006b77e885e346f82 | us-east-1 Important To use private hosted zones, you must set the following Amazon VPC settings to true: • enableDnsHostnames • enableDnsSupport Learn more

Create



Enable DNS resolution in vpc

VPCs > Edit DNS resolution

Edit DNS resolution

VPC ID vpc-006b77e885e346f82

DNS resolution 🛮 enable

* Required

Enable DNS hostnames in vpc

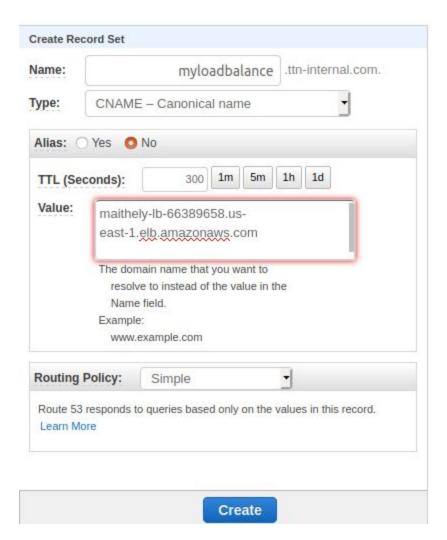
Edit DNS hostnames

VPC ID vpc-006b77e885e346f82



* Required

Now route 53> create record set



Now 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.

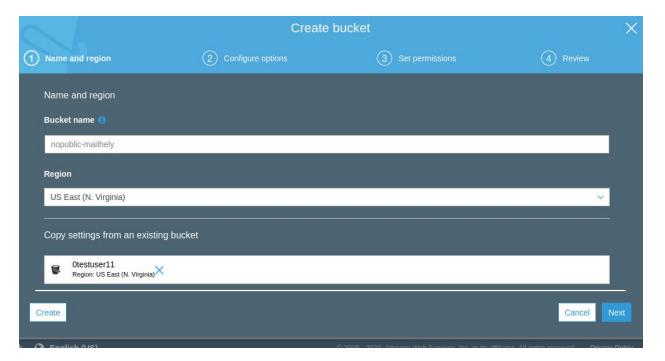
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ubuntu@ip-10-0-1-107:~$ nslookup myloadbalance.ttn-internal.com.
Server: 127.0.0.53
Address: 127.0.0.53#53

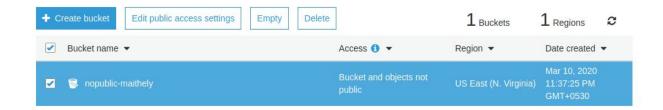
Non-authoritative answer:
myloadbalance.ttn-internal.com canonical name = maithely-lb-66389658.
us-east-1.elb.amazonaws.com.
Name: maithely-lb-66389658.us-east-1.elb.amazonaws.com
Address: 34.235.54.164

ubuntu@ip-10-0-1-107:~$
```

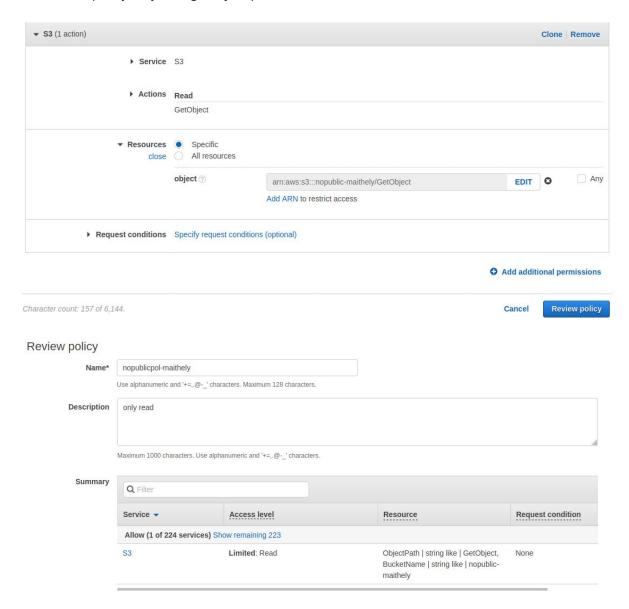
2) Create a non-public S3 bucket and give appropriate permissions to a server to download objects from bucket but not to put or delete anything in it.

Create s3 bucket with no public access





Now create a policy only with getobject permission of s3 bucket



Then create a role and attach the above created policy



Now create an ec2-instance and attach the role to it

Instances > Attach/Replace IAM Role				
Attach/Replace IAM F	Role			
Select an IAM role to attach to your instand If an IAM role is already attached to your in Instance ID		replace the existing		e to create a role in the IAM console.
IAM role*	nopubrole-maithely	•	C	Create new IAM role
* Required				

Now Is into S3 bucket and you can see that the access has been denied

ubuntu@ip-172-31-78-191:~\$ aws s3 ls s3://nopublic-maithely/
An error occurred (AccessDenied) when calling the ListObjects operation: Access Denied
ubuntu@ip-172-31-78-191:~\$