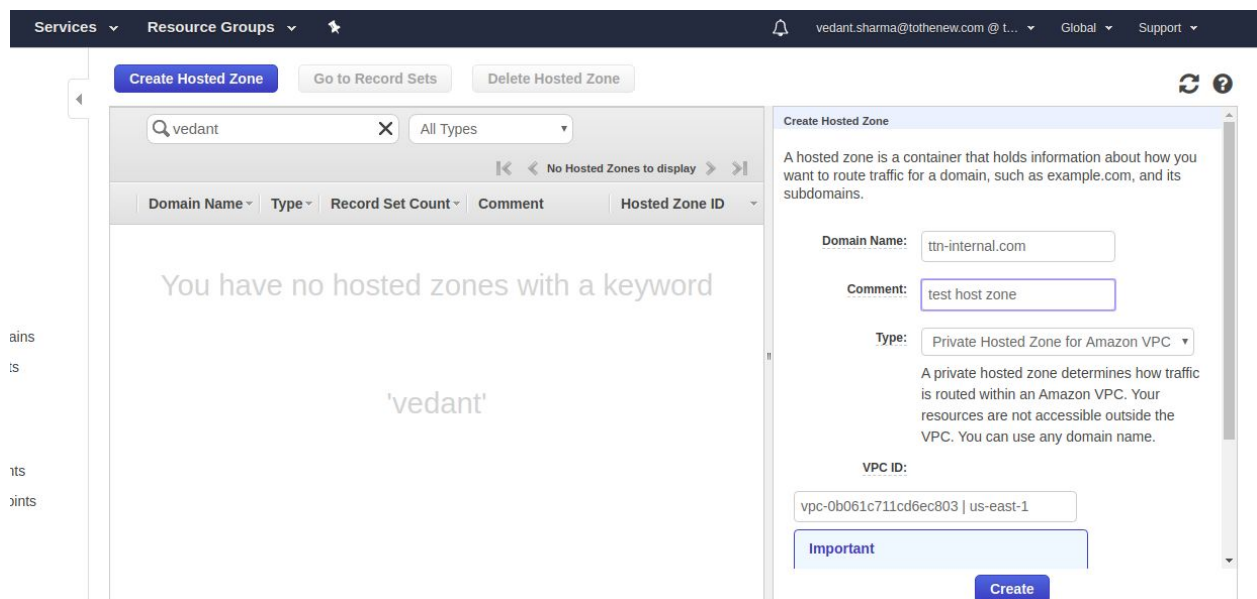
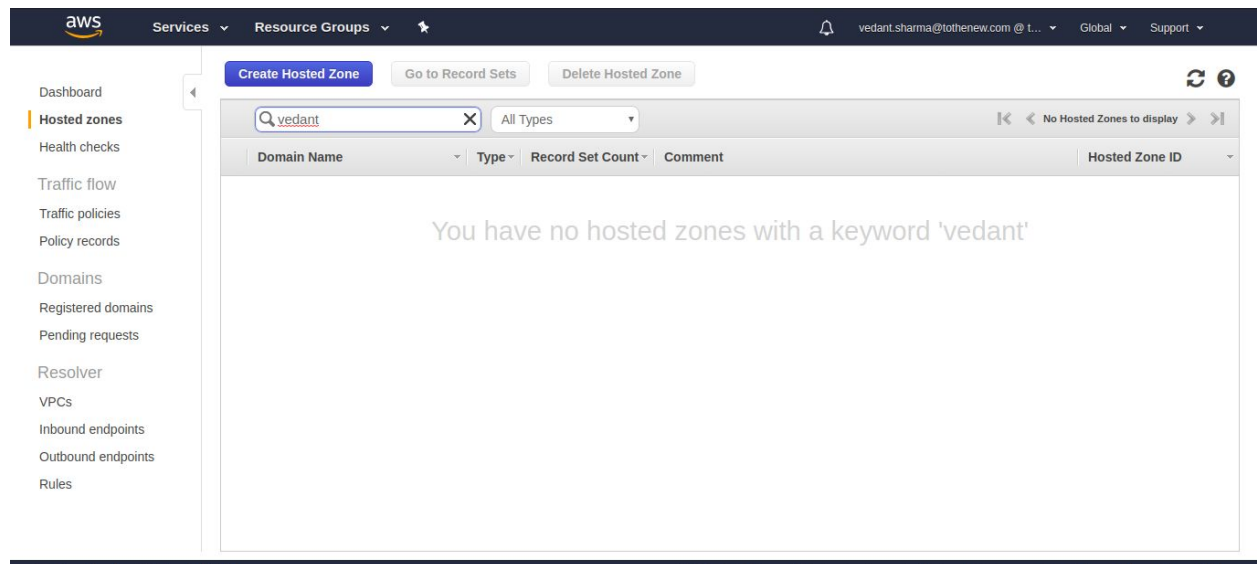


S3, Route 53 & DNS

Q1. create a private hosted zone named "[ttn-internal.com](#)", 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.

Creating a hosted zone:



Enable Dns resolution:

The screenshot shows the AWS Management Console interface for editing DNS resolution. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The breadcrumb trail indicates the path: 'VPCs > Edit DNS resolution'. The main heading is 'Edit DNS resolution'. Below this, the 'VPC ID' is displayed as 'vpc-0b061c711cd6ec803'. The 'DNS resolution' setting is shown with a checked checkbox and the label 'enable'. At the bottom left, there is a note '* Required'. At the bottom right, there are 'Cancel' and 'Save' buttons.

aws Services Resource Groups

VPCs > Edit DNS resolution

Edit DNS resolution

VPC ID vpc-0b061c711cd6ec803

DNS resolution ☒ enable

* Required Cancel Save

Enable DNS hostname

The screenshot shows the AWS Management Console interface for editing DNS hostnames. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The breadcrumb trail indicates the path: 'VPCs > Edit DNS hostnames'. The main heading is 'Edit DNS hostnames'. Below this, the 'VPC ID' is displayed as 'vpc-0b061c711cd6ec803'. The 'DNS hostnames' setting is shown with a checked checkbox and the label 'enable'. At the bottom left, there is a note '* Required'. At the bottom right, there are 'Cancel' and 'Save' buttons.

aws Services Resource Groups

VPCs > Edit DNS hostnames

Edit DNS hostnames

VPC ID vpc-0b061c711cd6ec803

DNS hostnames ☒ enable

* Required Cancel Save

Creating a record set:

Of type cname to map a DNS to a DNS

Where we mark the address of load balancer

ServicesResource Groups

vedant.sharma@tothenew.com @ t...GlobalSupport

Back to Hosted ZonesCreate Record SetImport Zone FileDelete Record SetTest Record Set

Record Set NameAny TypeAliases OnlyWeighted Only

Displaying 1 to 2 out of 2 Record Sets

Name	Type	Value	Evaluate Target Health
ttn-internal-1.com.	NS	ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.	-
ttn-internal-1.com.	SOA	ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amaz	-

Create Record Set

Name:myloadbalance.ttn-internal-1.com.

Type:CNAME – Canonical name

Alias:YesNo

TTL (Seconds):3001m5m1h1d

Value:vedant-temp-ALB-69142369.us-east-1.elb.amazonaws.com

The domain name that you want to resolve to instead of the value in the Name field.
Example:
www.example.com

Routing Policy:Simple

Route 53 responds to queries based only on the values in this record. [Learn More](#)

Create

Back to Hosted ZonesCreate Record SetImport Zone FileDelete Record Set

Record Set NameAny TypeAliases OnlyWeighted Only

Displaying 1 to 3 out of 3 Record Sets

Name	Type	Value	Evaluate
ttn-internal-1.com.	NS	ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.	-
ttn-internal-1.com.	SOA	ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amaz	-
myloadbalance.ttn-internal-1.com.	CNAME	vedant-temp-ALB-69142369.us-east-1.elb.amazona	-

Nslookup on the instance running on a load balancer;

```
ubuntu@ip-192-168-91-125:~$ nslookup myloadbalance.ttn-internal-1.com.
Server:                127.0.0.53
Address:                127.0.0.53#53

Non-authoritative answer:
myloadbalance.ttn-internal-1.com      canonical name = vedant-temp-alb-6
9142369.us-east-1.elb.amazonaws.com.
Name:   vedant-temp-alb-69142369.us-east-1.elb.amazonaws.com
Address: 3.228.26.131
Name:   vedant-temp-alb-69142369.us-east-1.elb.amazonaws.com
Address: 34.229.2.141
```

Q2. 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.

Creating a private bucket:

Amazon S3's newest storage class S3 Intelligent-Tiering auto-tiers your data to deliver cost savings. [Learn more »](#) [Documentation](#)

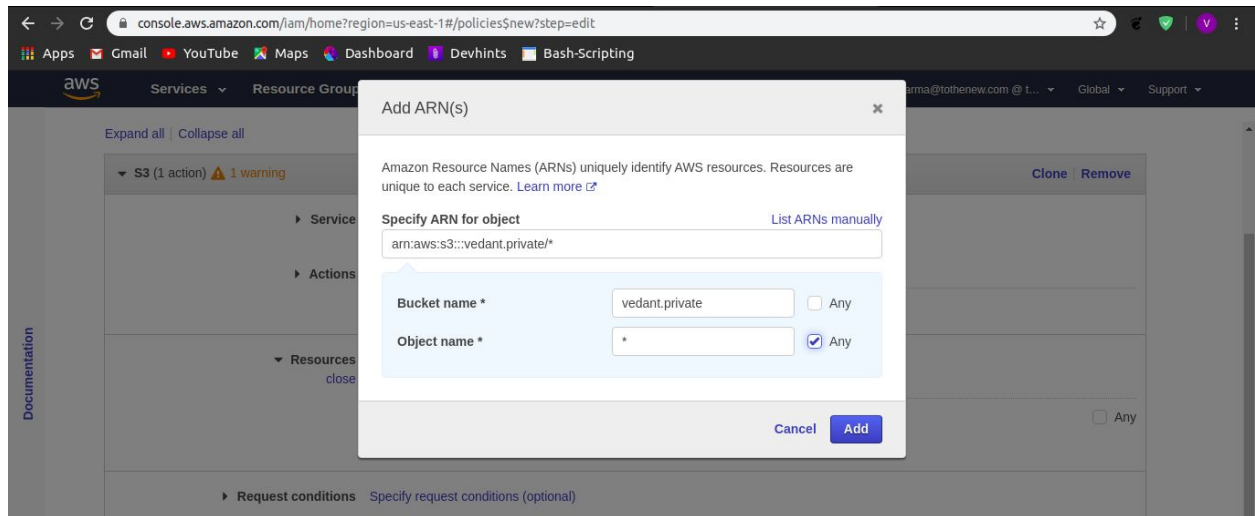
S3 buckets [Discover the console](#)

Q vedant All access types

[+ Create bucket](#) [Edit public access settings](#) [Empty](#) [Delete](#) 2 Buckets 1 Regions

<input type="checkbox"/> Bucket name	Access	Region	Date created
<input type="checkbox"/> vedant-static	Public	US East (N. Virginia)	Feb 28, 2020 12:43:36 AM GMT+0530
<input type="checkbox"/> vedant.private	Bucket and objects not public	US East (N. Virginia)	Mar 3, 2020 3:15:42 PM GMT+0530

Creating an add object policy for s3 bucket and specifying s3 bucket ARN



Adding role for ec2 usecase.

Choose one or more policies to attach to your new role.

Create policy ↺

Filter policies Showing 7 results

	Policy name	Used as
<input type="checkbox"/>	Alice-vedant-Policy	Permissions policy (1)
<input type="checkbox"/>	bob-vedant-ec2-access	Permissions policy (1)
<input type="checkbox"/>	Vedant-Assume-Role-Policy	Permissions policy (1)
<input type="checkbox"/>	Vedant-Dev-Policy	Permissions policy (1)
<input type="checkbox"/>	Vedant-Metricdata-Policy	Permissions policy (1)
<input checked="" type="checkbox"/>	Vedant-object-download	None
<input type="checkbox"/>	Vedant-Prod-Policy	Permissions policy (1)

Set permissions boundary

* Required Cancel Previous Next: Tags

Create role

Review

Provide the required information below and review this role before you create it.

Role name*

Use alphanumeric and '+', '@', '-', '_' characters. Maximum 64 characters.

Role description

Maximum 1000 characters. Use alphanumeric and '+', '@', '-', '_' characters.

Trusted entities AWS service: ec2.amazonaws.com

Policies [Vedant-object-download](#)

Permissions boundary Permissions boundary is not set

* Required

[Cancel](#) [Previous](#) [Create role](#)

Attaching the role to the Ec2 instance:

Services **Resource Groups**

Launch Instance **Connect** **Actions**

search : vedant Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
Vedant-Insta...	i-0392...	us-east-1c	us-east-1c	running	2/2 checks ...	None	ec2-204-236-192-13.co...
Vedant-temp...	i-0826...	us-east-1a	us-east-1a	terminated		None	
Vedant-temp...	i-0f18...	us-east-1a	us-east-1a	terminated		None	

- Connect
- Get Windows Password
- Create Template From Instance
- Launch More Like This
- Instance State
- Instance Settings
 - Add/Edit Tags
- Image
 - Attach to Auto Scaling Group
- Networking
 - Attach/Replace IAM Role
- CloudWatch Monitoring
 - Change Instance Type

Attach/Replace IAM Role

Select an IAM role to attach to your instance. If you don't have any IAM roles, choose **Create new IAM role** to create a role in the IAM console. If an IAM role is already attached to your instance, the IAM role you choose will replace the existing role.

Instance ID i-0392e6fd65fdf1c99 (Vedant-Instance) ⓘ

IAM role* [Create new IAM role](#) ⓘ

* Required

[Cancel](#) [Apply](#)

```
ubuntu@ip-172-31-84-228:~$ aws s3 ls
An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied
ubuntu@ip-172-31-84-228:~$
```

Downloading the s3 object using s3api:

```
ubuntu@ip-172-31-84-228:~$ aws s3api get-object --bucket vedant.private --  
key "Dockerfile" dock1.txt  
{  
  "AcceptRanges": "bytes",  
  "LastModified": "Tue, 03 Mar 2020 10:13:46 GMT",  
  "ContentLength": 343,  
  "ETag": "\"25b11f7cd8787ecb2915b430369348ed\"",  
  "ContentType": "binary/octet-stream",  
  "Metadata": {}  
}
```

```
ubuntu@ip-172-31-84-228:~$ cat dock1.txt  
FROM ubuntu  
MAINTAINER Vedant  
RUN apt-get update  
RUN apt-get -y install nginx  
RUN apt-get -y install apt-utils vim wget curl net-tools -y  
RUN rm /etc/nginx/sites-enabled/default  
COPY chirag.com /etc/nginx/sites-available  
RUN ln -s /etc/nginx/sites-available/chirag.com /etc/nginx/sites-enabled  
EXPOSE 80  
CMD [ "nginx", "-g", "daemon off;" ]  
  
ubuntu@ip-172-31-84-228:~$
```