

**TO
THE
NEW**™



S3, Route 53 & DNS

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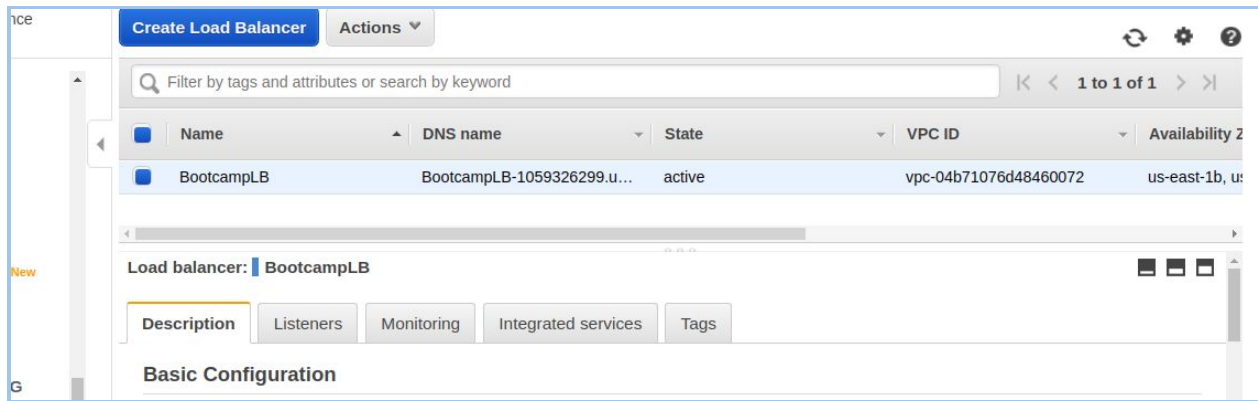
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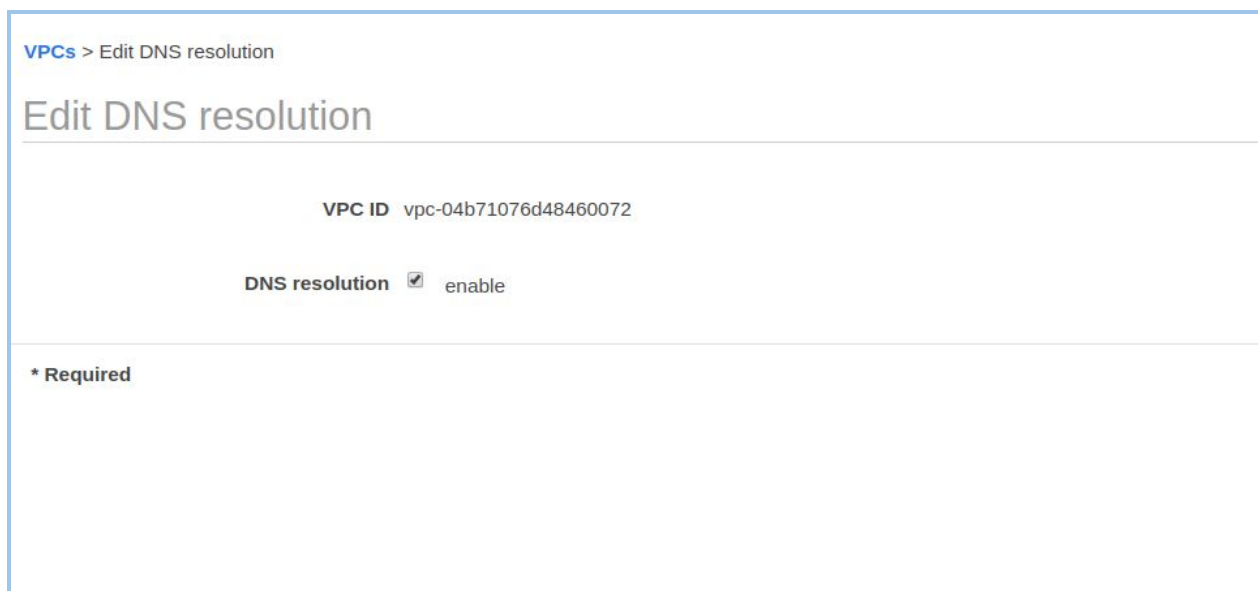
1) Create a private hosted zone named "ttn-internal.com" attached to the default vpc. and created a cname record "myloadbalance.ttn-internal.com" for any load balancer pointed to its dns. Do reverse lookup for the record from any instance of the vpc and share the result.

Ans.

Create a load balancer



Enable DNS resolution for VPC



Enable DNS hostname for VPC

VPCs > Edit DNS hostnames

Edit DNS hostnames

VPC ID vpc-04b71076d48460072

DNS hostnames ☒ enable

Go to Route53 service and create a private hosted zone

Create Hosted Zone

A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.

Domain Name:

Comment:

Type:

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:

Important

Create

Now, Click on Create Recordset

Back to Hosted Zones

Create Record Set

Import Zone File

Delete Record Set

Test R

Record Set Name

X

Any Type

☐ Aliases Only

☐ Weighted Only

Displaying 1 to 2 out of 2 Record Sets

<input type="checkbox"/>	Name	Type	Value	Evaluate Targ
<input type="checkbox"/>	ttn-internal1.com.	NS	ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.	-
<input type="checkbox"/>	ttn-internal1.com.	SOA	ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amaz	-

Create Record Set

Name:

Type:

A – IPv

Alias: ☐ Yes ☒

TTL (Seconds):

Value:

See ex

IPv4 ad

on se

Exempl

192.0

198.5

Create a c name record set. Here copy the load balancers DNS.

Create Record Set

Name:

Type:

Alias: ☐ Yes ☒ No

TTL (Seconds):

Value:

The domain name that you want to resolve to instead of the value in the Name field.

Example:
www.example.com

Routing Policy:

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

Create

<input type="text" value="Record Set Name"/>	<input type="button" value="X"/>	<input type="button" value="Any Type ▼"/>	<input type="checkbox"/> Aliases Only	<input type="checkbox"/> Weighted Only
<div> <div>⏪</div> <div>⏩</div> <div>Displaying 1 to 3 out of 3 Record Sets</div> <div>⏪</div> <div>⏩</div> </div>				
<input type="checkbox"/>	Name	Type	Value	
<input type="checkbox"/>	ttn-internal1.com.	NS	ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.	
<input type="checkbox"/>	ttn-internal1.com.	SOA	ns-1536.awsdns-00.co.uk. awsdns-hostmast	
<input type="checkbox"/>	myloadbalancerchhavi.ttn-internal1.com.	CNAME	BootcampLB-1059326299.us-east-1.elb.ama	

SSH into your instance and perform reverse lookup

```
ubuntu@ip-10-0-1-12:~$ sudo nslookup myloadbalancerchhavi.ttn-internal.com.
Server:      127.0.0.53
Address:     127.0.0.53#53

Non-authoritative answer:
myloadbalancerchhavi.ttn-internal.com  canonical name = bootcamp1b-1059326299.us-east-1.elb.amazonaws.com.
Name:   bootcamp1b-1059326299.us-east-1.elb.amazonaws.com
Address: 54.236.121.47
Name:   bootcamp1b-1059326299.us-east-1.elb.amazonaws.com
Address: 52.44.35.60

ubuntu@ip-10-0-1-12:~$
```

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.

Ans.

Step 1: Give an appropriate name to your S3 bucket (Choose a region)

The screenshot shows the 'Create bucket' dialog box in the AWS Management Console. The dialog has a blue header with the title 'Create bucket' and a close button. Below the header is a progress bar with four steps: 1. Name and region (active), 2. Configure options, 3. Set permissions, and 4. Review. The main content area is titled 'Name and region' and contains three input fields: 'Bucket name' with the value 'chhavis3bucket', 'Region' with the value 'US East (N. Virginia)', and 'Copy settings from an existing bucket' with a dropdown menu showing 'Select bucket (optional)' and '84 Buckets'. At the bottom of the dialog are three buttons: 'Create', 'Cancel', and 'Next'. The footer of the console shows 'Feedback', 'English (US)', and copyright information.

amazon
buckets
sh oper
ess ana
k public
count se
ture spo

Feedback English (US) © 2008 - 2020 Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

Step 2 : Configure Options(Add Tags)

The screenshot shows the 'Create bucket' dialog box in the AWS Management Console, now at Step 2: Configure options. The progress bar shows Step 1 as completed and Step 2 as active. The main content area is titled 'Properties' and contains three sections: 'Versioning' with a checkbox 'Keep all versions of an object in the same bucket.' and a link 'Learn more'; 'Server access logging' with a checkbox 'Log requests for access to your bucket.' and a link 'Learn more'; and 'Tags' with a heading 'You can use tags to track project costs. Learn more' and two input fields: 'owner' with the value 'chhavi' and 'purpose' with the value 's3bucket'. Below the input fields is a button '+ Add another'. At the bottom of the dialog are two buttons: 'Previous' and 'Next'.

Properties

Versioning
☐ Keep all versions of an object in the same bucket. [Learn more](#)

Server access logging
☐ Log requests for access to your bucket. [Learn more](#)

Tags
You can use tags to track project costs. [Learn more](#)

owner	chhavi	×
purpose	s3bucket	×

+ Add another

Previous Next

Step 3 : To make the bucket private block all public access

Visual editor
JSON
Import managed policy

Expand all
Collapse all

▼ S3 (1 action)
Clone
Remove

▶ Service
S3

▶ Actions
Read
GetObject

▼ Resources

☒ Specific
☐ All resources

close

object

arn:aws:s3:::chhavis3bucket/*
EDIT
✕
☐ Any

Add ARN to restrict access

▶ Request conditions
Specify request conditions (optional)

✓ ChhaviS3GetObject has been created.
✕

Create policy
Policy actions

Filter policies
chhavis3

	Policy name	Type	Used as	Description
<input type="radio"/>	▶ ChhaviS3GetObject	Customer managed	None	Allow Download Only

Step 5 : Create a new role and attach the created policy to it.

Create role
1 2 3 4

▼ Attach permissions policies

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

Create policy

Filter policies
chhavis3
Showing 1 result

	Policy name	Used as
<input checked="" type="checkbox"/>	▶ ChhaviS3GetObject	None

Create role

1 2 3 4

Review

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

Role name* ChhaviS3GetObjectRole

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

Role description Allows EC2 instances to call AWS services on your behalf.

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

Trusted entities AWS service: ec2.amazonaws.com

Policies ChhaviS3GetObject [↗](#)

Permissions boundary Permissions boundary is not set

Step 6: Now attach the role to the instance.

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-06486704a9da10a28 (ChhaviDNS1) [i](#)

IAM role* ChhaviS3GetObjectRole



[Create new IAM role](#) [i](#)

* Required

[Cancel](#)

Step 7 : Now ssh into your instance. If you ls your s3 bucket you will be denied access. But if you download an object you will be allowed to do so.

```
ubuntu@ip-10-0-1-12:~$ aws s3 ls
An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied
ubuntu@ip-10-0-1-12:~$
```

```
ubuntu@ip-10-0-1-12:~$ aws s3api get-object --bucket chhavis3bucket --key "tothenew.jpg" new
{
  "AcceptRanges": "bytes",
  "LastModified": "Mon, 02 Mar 2020 14:47:48 GMT",
  "ContentLength": 31937,
  "ETag": "\"d8d1e8f373fcffe602ae197438d71652\"",
  "ContentType": "image/jpeg",
  "Metadata": {}
}
ubuntu@ip-10-0-1-12:~$
```