

DVS Technologies

1. Domain Registration

The screenshot shows the AWS Route 53 landing page. It features four main service icons: 'DNS management' (DNS icon), 'Traffic management' (server icon), 'Availability monitoring' (stethoscope icon), and 'Domain registration' (monitor and globe icon). Each service has a brief description and a 'Get started now' button. A red arrow points from the 'Domain registration' section towards the second screenshot.

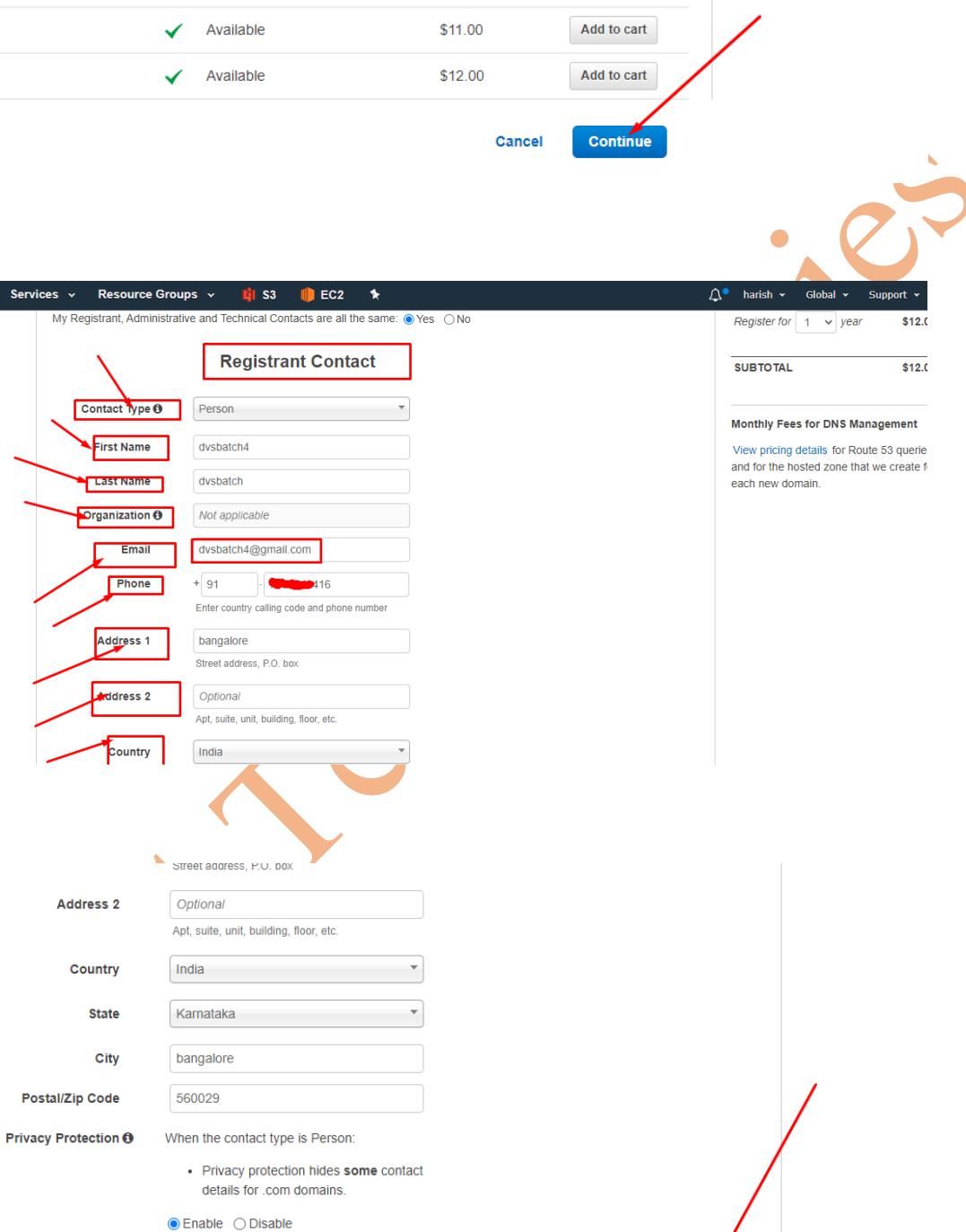
The screenshot shows the 'Registered domains' page. It includes a sidebar with navigation links like 'hboard', 'ted zones', 'lth checks', etc. At the top, there are buttons for 'Register Domain', 'Transfer Domain', and 'Domain Billing Report'. A search bar is present above a table with columns for 'Domain Name', 'Privacy Protection', 'Expiration Date', 'Auto Renew', and 'Transfer Lock'. A red arrow points to the 'Register Domain' button.

The screenshot shows the 'Domain Search' process. Step 1: 'Choose a domain name' shows a search bar with 'dvsbatch4' and a dropdown for 'com - \$12.00'. Step 2: 'Availability for 'dvsbatch4.com'' shows a table with one row: 'dvsbatch4.com' status 'Available' price '\$12.00' with an 'Add to cart' button. Step 3: 'Related domain suggestions' shows a table with four rows: 'bcgbatch4.com', 'dvsbatch4.info', 'dvsbatch4.io', and 'dvsbatch4.net', each with an 'Add to cart' button. Red arrows highlight the search term, the price dropdown, the availability table, and the related suggestions table.

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lch4rent.com	✓ Available	\$12.00	Add to cart
ick4.com	✓ Available	\$12.00	Add to cart
ick4.net	✓ Available	\$11.00	Add to cart
batch4.com	✓ Available	\$12.00	Add to cart

Cancel Continue



My Registrant, Administrative and Technical Contacts are all the same: Yes No

Registrant Contact

Contact Type: Person
First Name: dvsbatch4
Last Name: dvsbatch
Organization: Not applicable
Email: dvsbatch4@gmail.com
Phone: + 91 9876543210
Address 1: bangalore
Address 2: Optional
Country: India

Address 2
Optional
Apt, suite, unit, building, floor, etc.
Country: India
State: Karnataka
City: bangalore
Postal/Zip Code: 560029

Privacy Protection When the contact type is Person:
 Enable Disable

Cancel Back Continue

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AWS Services Resource Groups S3 EC2

1: Domain Search
2: Contact Details
3: Verify & Purchase

Check your contact details

Confirm that the following contact information is correct. When you complete your purchase, we'll use this information for all of the domains in your shopping cart.

Registrant Contact	Administrative Contact	Technical Contact
dvsbatch4 dvsbatch dvsbatch4@gmail.com +91.7795540416 bangalore bangalore KA 560029 IN Privacy protected	dvsbatch4 dvsbatch dvsbatch4@gmail.com +91.7795540416 bangalore bangalore KA 560029 IN Privacy protected	dvsbatch4 dvsbatch dvsbatch4@gmail.com +91.7795540416 bangalore bangalore KA 560029 IN Privacy protected

Managing DNS for Your New Domain

To make it easier for you to use Route 53 as the DNS service for your new domain, we'll automatically create a hosted zone. That's where you store information about how to route traffic for your domain, for example, to an Amazon EC2 instance. If you won't use your domain right now, you can delete the hosted zone. If you will use your domain, Route 53 charges for the hosted zone and for the DNS queries that we receive for your domain. For more information, see [Amazon Route 53 Pricing](#).

Do you want to automatically renew your domain?

Do you want to automatically renew your domain?

When you register a domain name, you own it for a year. If you don't renew your domain name registration, it expires and someone else can register the domain name. To ensure that you can keep your domain name, you can choose to renew it automatically every year. The cost of renewing your domain name is billed to your AWS account. You can enable or disable automatic renewal at any time using the Route 53 console. For more information, see [Renewing Registration for a Domain](#).

Enable Disable

Terms and Conditions

Amazon Route 53 enables you to register and transfer domain names using your AWS account. However, AWS is not a domain name registrar, so we use registrar associates to perform registration and transfer services. When you purchase domain names through AWS, you are registering your domain with one of our registrar associates. The registrar for your domain will periodically contact the registrant contact that you specified to verify the contact details and renew registration.

I have read and agree to the [AWS Domain Name Registration Agreement](#)

Verify the Email Address for the Registrant Contact

We just sent an email to dvsbatch4@gmail.com. Click the link in the email to verify that we were able to reach you. The email will come from noreply@registrar.amazon.com. After you click the link, return to this page to complete the purchase. If the verification email is going to someone else, you can [skip verification for now](#).

I have read and agree to the [AWS Domain Name Registration Agreement](#)

Verify the Email Address for the Registrant Contact

We just sent an email to dvsbatch4@gmail.com. Click the link in the email to verify that we were able to reach you. The email will come from noreply@registrar.amazon.com. After you click the link, return to this page to complete the purchase. If the verification email is going to someone else, you can [skip verification for now](#).

Important
If you don't click the link, we're required to suspend the domains that require email verification. Suspended domains aren't available on the internet.

If dvsbatch4@gmail.com is the wrong address, choose **Back** and correct the address.

Status:  Email sent. Waiting for verification. [Resend verification email](#) [Refresh status](#)

[Cancel](#) [Back](#) [Complete Order](#)

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Note: If you want to pay you can select complete order otherwise you can skip it .

2. Registering Go daddy with Route53

Login to Godaddy site and register your domain there and do the below

The screenshot shows the GoDaddy Domain Manager interface. At the top, there's a navigation bar with links for 'Domains', 'Buy & Sell', 'DNS', 'Settings', and 'Help'. Below the navigation is a search bar labeled 'Search your domain names' with a magnifying glass icon. The main area is titled 'My Domains'.

Under 'My Domains', there's a table with columns for 'Domains', 'Next Steps', 'Auto-Renewal', and 'Protection Plan'. One row in the table shows a domain name (redacted), its expiration date ('Expires on 12/4/2022'), and status ('...'). To the right of this row are 'Auto-Renewal' (Off) and 'Protection Plan' (Basic Privacy) settings.

Below the table, there's a section titled 'Additional Settings' with a box containing a shield icon and the text 'Don't risk losing your domain'. It explains that the domain is protected against threats like hijacking and loss due to expired credit cards. A button labeled 'Add Ownership Protection' is at the bottom of this box.

To the right of the 'Additional Settings' box, there's a 'Manage DNS' link, which is highlighted with a red box and a red arrow pointing to it from the 'Additional Settings' section.

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The screenshot shows the GoDaddy DNS Management interface for the domain shaans.in. At the top, there's a header bar with a back arrow, forward arrow, refresh icon, and a URL field showing dcc.godaddy.com/manage/shaans.in/dns?plid=1. Below the header, a red box highlights the "DNS Management" title and the domain name "shaans.in". Another red box highlights the "Nameservers" section. A red arrow points from the "Nameservers" box to the "Using custom nameservers" link. The "Nameservers" section lists several entries: ns-715.awsdns-25.net, ns-162.awsdns-20.com, ns-1166.awsdns-17.org, and ns-1998.awsdns-57.co.uk.

NOTE: what is this NAMESERVERS ????

Let's get the DNS server details of our AWS:

The screenshot shows the AWS Route 53 service page. The left sidebar has a navigation menu with options like Dashboard, Hosted zones (which is selected and highlighted in orange), Health checks, Traffic flow, Traffic policies, Policy records, Domains, Registered domains, Pending requests, Resolver, VPCs, Inbound endpoints, Outbound endpoints, and Rules. The main content area features a "Create Hosted Zone" button at the top. Below it is a large icon of a computer monitor with a circular arrow symbol. A descriptive text block explains that Amazon Route 53 is an authoritative Domain Name System (DNS) service that translates human-readable domain names (example.com) into IP addresses (192.0.2.0). It mentions that with authoritative servers in data centers all over the world, Route 53 is reliable, scalable, and fast. At the bottom, there's a note about existing domains and a "Create Hosted Zone" button.

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Create Hosted Zone

Search all fields All Types

No Hosted Zones to display

Domain Name Type Record Set Count Comment Hosted Zone ID

You have no hosted zones

Domain Name: shaans.in

Comment: this is my godaddy domain

Type: Public Hosted Zone

A public hosted zone determines how traffic is routed on the Internet.

Create

Back to Hosted Zones Create Record Set Import Zone File Delete Record Set Test Record Set

Record Set Name Any Type Aliases Only Weighted Only

Displaying 1 to 2 out of 2 Record Sets

Name	Type	Value	Evaluate Target Health	Health Check ID	TTL	Region
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.	-	-	172800	
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com.	-	-	900	

To get started, click on an existing record

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The screenshot shows two side-by-side web pages. On the left is the AWS Route 53 Management Console displaying the 'Records' section for the domain 'shaans.in'. It lists two records: an NS record for 'shaans.in.' pointing to four nameservers, and an SOA record. A red box highlights the 'Value' column of the NS record. A red arrow points from this box to a callout bubble containing the handwritten note: 'Add these details in your Godaddy site as below'. On the right is the 'DNS Management' page from Godaddy for the same domain. It shows a 'Nameservers' section with four nameservers listed. A red arrow points from the 'Change' button in the AWS interface to the 'Nameserver' list in the Godaddy interface.

This screenshot shows the 'Nameservers' section of the Godaddy DNS Management interface. It includes a 'Using custom nameservers' heading with a 'Change' button, a 'Nameserver' list containing five entries, and a large orange 'DV' watermark across the bottom left. The 'Change' button in this section also has a red arrow pointing to it from the AWS interface in the previous screenshot.

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Choose your nameservers Ⓛ

I'll use GoDaddy nameservers (recommended)

I'll use my own nameservers

ns-1776.awsdns-30.co.uk	trash
ns-528.awsdns-02.net	trash
ns-417.awsdns-52.com	trash
ns-1386.awsdns-45.org	trash

Add Nameserver

Save **Cancel**

aws Services Resource Groups S3 EC2

Dashboard Hosted zones Health checks Traffic flow Traffic policies Policy records Domains Registered domains Pending requests Resolver VPCs Inbound endpoints Outbound endpoints

Back to Hosted Zones Create Record Set Import Zone File Delete Record Set Test

Record Set Name Any Type Aliases Only Weighted Only

Displaying 1 to 2 out of 2 Record Sets

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com. 1 14400 3600 1209600 3600

Both the dns in Route53 and in your Godaddy should match

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3. Testing the Dns Resolution

```
[root@server1 ~]# history|tail -6
 8  hostname
 9  yum install httpd -y
10 systemctl enable httpd
11 systemctl restart httpd
12 echo "Hi Team welcome to Route53" > /var/www/html/index.html
13 history|tail -6
[root@server1 ~]#
```

Execute above command
andps in server1

The screenshot shows the AWS EC2 Instances page. On the left sidebar, under 'Instances', 'Instances' is selected. In the main pane, there is a table of instances:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status
server1	i-04893591216456f63	t2.micro	us-east-1e	running	2/2 checks ...	None
server2	i-0655b80888655a0...	t2.micro	us-east-1e	running	2/2 checks ...	None

Below the table, for the instance 'server1', there is a detailed view:

Instance: i-04893591216456f63 (server1) Public DNS: ec2-18-234-169-49.compute-1.amazonaws.com

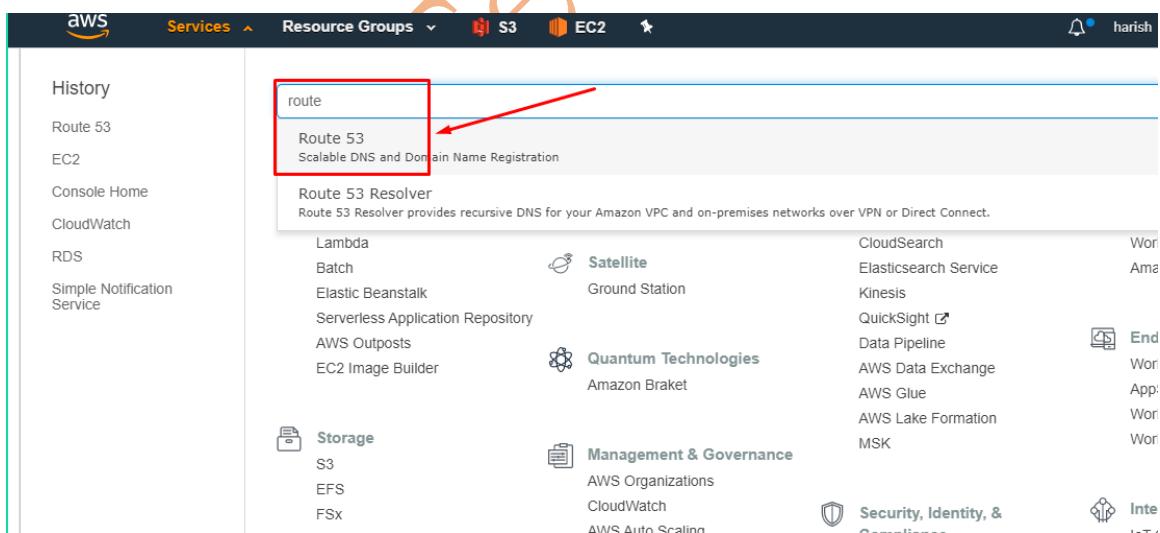
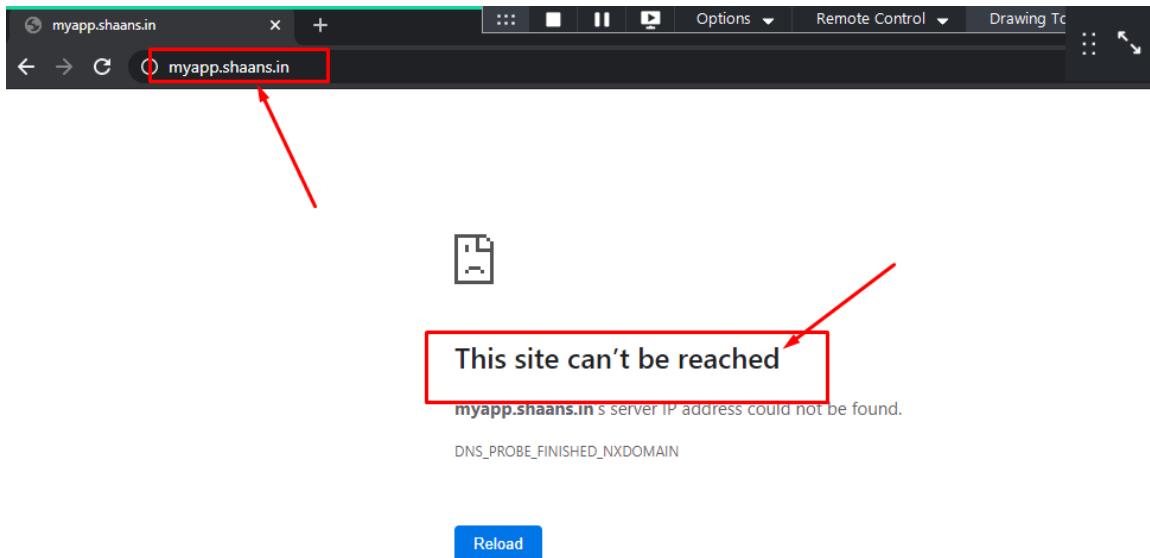
Description	Status Checks	Monitoring	Tags
Instance ID: i-04893591216456f63			
Instance state: running			
Instance type: t2.micro			
Finding: Opt-in to AWS Compute Optimizer for recommendations. Learn more			
Private DNS: ip-172-31-59-6.ec2.internal			
Private IPs: 172.31.59.6			
Public DNS (IPv4): ec2-18-234-169-49.compute-1.amazonaws.com			
IPv4 Public IP: 18.234.169.49			
IPv6 IPs: -			
Elastic IPs: -			
Availability zone: us-east-1e			
Security groups: opentoworld, view inbound rules, view outbound rules			
Scheduled events: No scheduled events			

A large orange arrow points from the 'server1' row in the table to the browser window below. The browser window shows the URL 18.234.169.49.

Hi Team welcome to Route53

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Now Let's our domain:



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The screenshot shows the GoDaddy Domain Manager interface. On the left sidebar, under the 'Hosted zones' section, the domain 'shaans.in.' is listed. A red box highlights the domain name 'shaans.in.' in the list, and a red arrow points from this box to the same text in the main content area below.

The screenshot shows the AWS Route 53 interface. On the left sidebar, under the 'Hosted zones' section, the domain 'shaans.in.' is selected. In the main content area, a 'Create Record Set' button is highlighted with a red box and a red arrow. The 'Edit Record Set' panel on the right shows the configuration for an NS record type, with the name 'shaans.in.' and multiple values listed: ns-1776.awsdns-30.co.uk., ns-528.awsdns-02.net., ns-417.awsdns-52.com., and ns-1386.awsdns-46.org.

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```
[root@server1 ~]# echo "Hi Team welcome to Route53" > /var/www/html/index.html
[root@server1 ~]# history|tail -6
 8 hostname
 9 yum install httpd -y
10 systemctl enable httpd
11 systemctl restart httpd
12 echo "Hi Team welcome to Route53" > /var/www/html/index.html
13 history|tail -6
[root@server1 ~]#
```

The screenshot shows the AWS Route 53 service dashboard. On the left sidebar, 'Hosted zones' is selected. In the main pane, a table lists two records for the zone 'shaans.in.':

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-62.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.ama...

To the right, a 'Create Record Set' dialog is open for a new record:

- Name:** myapp.shaans.in.
- Type:** A – IPv4 address (highlighted with a red box)
- TTL (Seconds):** 10 (highlighted with a red box)
- Value:** 18.234.169.49 (highlighted with a red box)
- Routing Policy:** Simple

A red arrow points from the 'Value' field to the text 'Enter public ip address' below it. Another red arrow points from the 'Create' button at the bottom right of the dialog.

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The screenshot shows the AWS Route 53 console. On the left, a sidebar lists various services: Dashboard, Hosted zones (highlighted with a red box), Health checks, Traffic flow, Traffic policies, Policy records, Domains, Registered domains, Pending requests, Resolver, VPCs, Inbound endpoints, Outbound endpoints, and Rules. Below this is a note: "Use the new console. Starting in August, we will..." A red arrow points from the "Hosted zones" link in the sidebar to the "myapp.shaans.in" entry in the main table.

The main area displays a table of record sets. The table has columns: Name, Type, and Value. There are three entries:

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon. ns-1776.awsdns-30.co.uk. awsdns-ns-1776.awsdns-30.co.uk.
myapp.shaans.in.	A	18.234.169.49

To the right of the table, a message says: "To get started, click Create Record Set button or click existing record set." A large orange watermark "DVS Technologies" is overlaid across the bottom left of the screenshot.

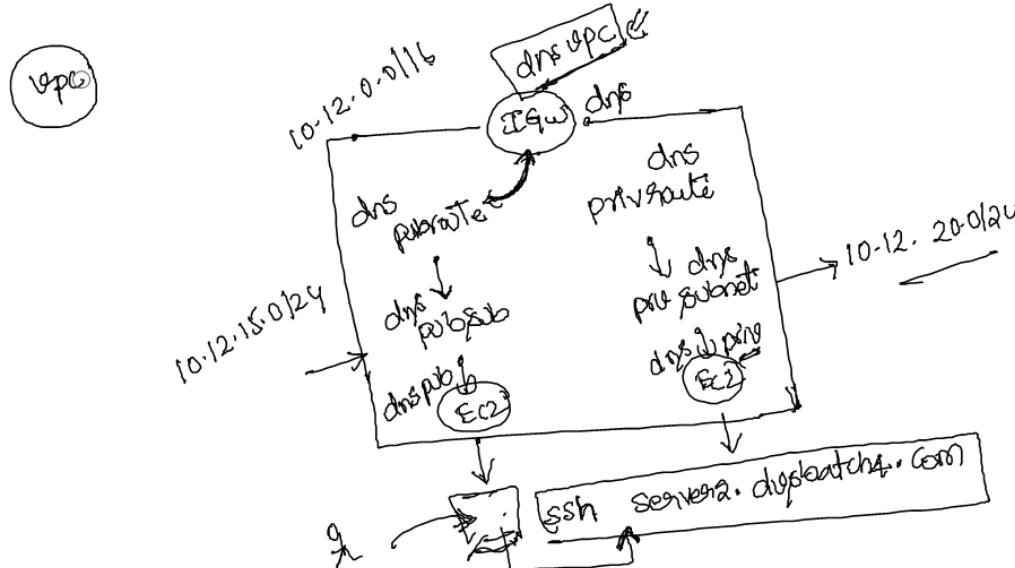
← → C ⓘ Not secure **myapp.shaans.in**

Hi Team welcome to Route53

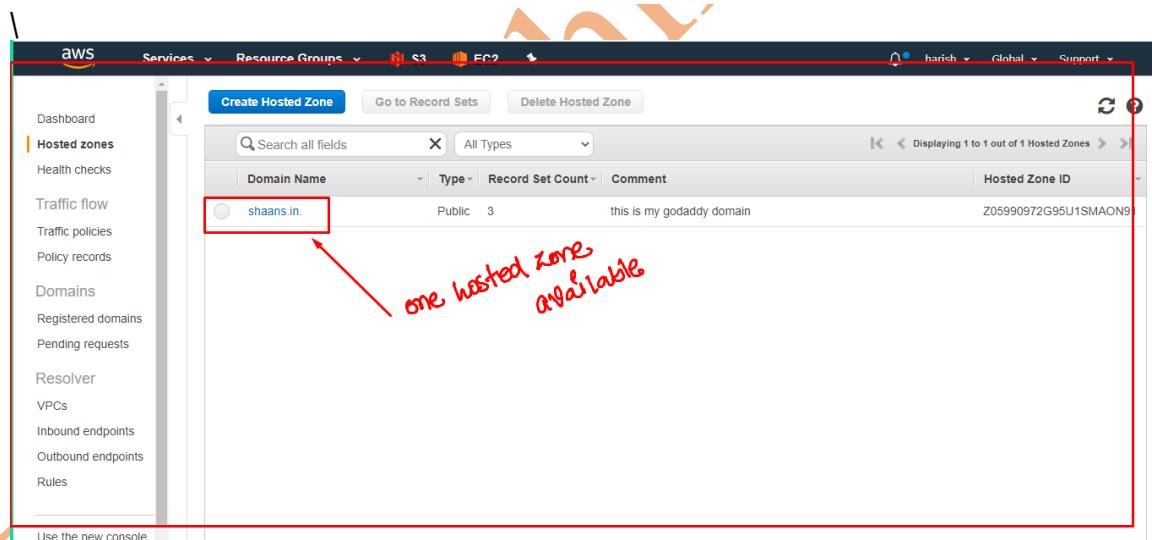
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4. Working with private hosted zones

1. Make sure that you are creating a VPC with pub and private zones as below



5/



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The screenshot shows the AWS VPC console. On the left sidebar, under 'Your VPCs', there is a red box around the 'dnsvpc' entry. The main panel shows a table with columns: Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, and IPv6 CIDR (Network Border Group). The 'dnsvpc' row is selected, and its details are shown in the bottom half of the screen. The IPv4 CIDR '10.12.0.0/16' is highlighted with a red box.

Once you are done with your VPC creation as specified above you can follow the below steps.

Make sure that you are enabling the below options for your VPC otherwise your DNS resolution will not work.

This screenshot shows the same AWS VPC console interface as the previous one, but with a different focus. A red arrow points from the 'Your VPCs' section in the sidebar to the 'Edit DNS resolution' option in the context menu for the 'dnsvpc' VPC. The context menu also includes options like Delete VPC, Edit CIDs, Create Default VPC, Create flow log, Edit DHCP options set, and Edit DNS hostnames. The main panel displays the VPC details for 'dnsvpc' with the IPv4 CIDR '10.12.0.0/16' highlighted.

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VPCs > Edit DNS resolution

Edit DNS resolution

VPC ID vpc-0314f58f543587f83

DNS resolution enable

* Required

Cancel Save

New VPC Experience
Tell us what you think

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Create VPC Actions

Delete VPC

Edit CIDRs

Create Default VPC

Create flow log

Edit DHCP options set

Edit DNS resolution

Edit DNS hostnames

Add/Edit Tags

Filter by tag keyword

VPC ID	State	IPv4 CIDR	IPv6 CIDR	IPv6 CIDR (Network Border Group)
vpc-0314f58f543587f83	available	10.12.0.0/16	-	-
vpc-0c9c2720dd7a0228	available	10.15.0.0/16	-	-
vpc-0e02358466322b190	available	192.165.0.0/16	-	-

Description CIDR Blocks Flow Logs Tags

VPC ID vpc-0314f58f543587f83 State available IPv4 CIDR 10.12.0.0/16 IPv6 CIDR -

Tenancy default Default VPC No Classic link Disabled

IPv6 CIDR (Network Border Group)

DNS resolution Enabled DNS hostnames Disabled ClassicLink DNS Support Disabled Owner 907814406801

IPv6 Pool - Network ACL acl-01c212940bbd8d71c DHCP options set dopt-f6dd4f8c Route table rtb-0b92a815aa742c3ff | dnspublicroute

VPCs > Edit DNS hostnames

Edit DNS hostnames

VPC ID vpc-0314f58f543587f83

DNS hostnames enable

* Required

Cancel Save

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Make sure that you are launching two server one is your pubserver & other one is private server in ourcase they are Dnspubserver & dnsprivserver

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of Instances: 1

Purchasing option: Request Spot Instances

Network: vpc-0314f58f543587f83 | dnsvc

Subnet: subnet-0beb1c2c7c2d8e4ae | dnspubsub1 | us-east-2

Auto-assign Public IP: Enable

Placement group: None

Capacity Reservation: Open

IAM role: None

Shutdown behavior: Stop

Cancel Previous Review and Launch Next: Add Storage

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group

Security group name: dnsvc_sg

Description: launch-wizard-3 created 2020-08-24T19:05:06.088+04:00

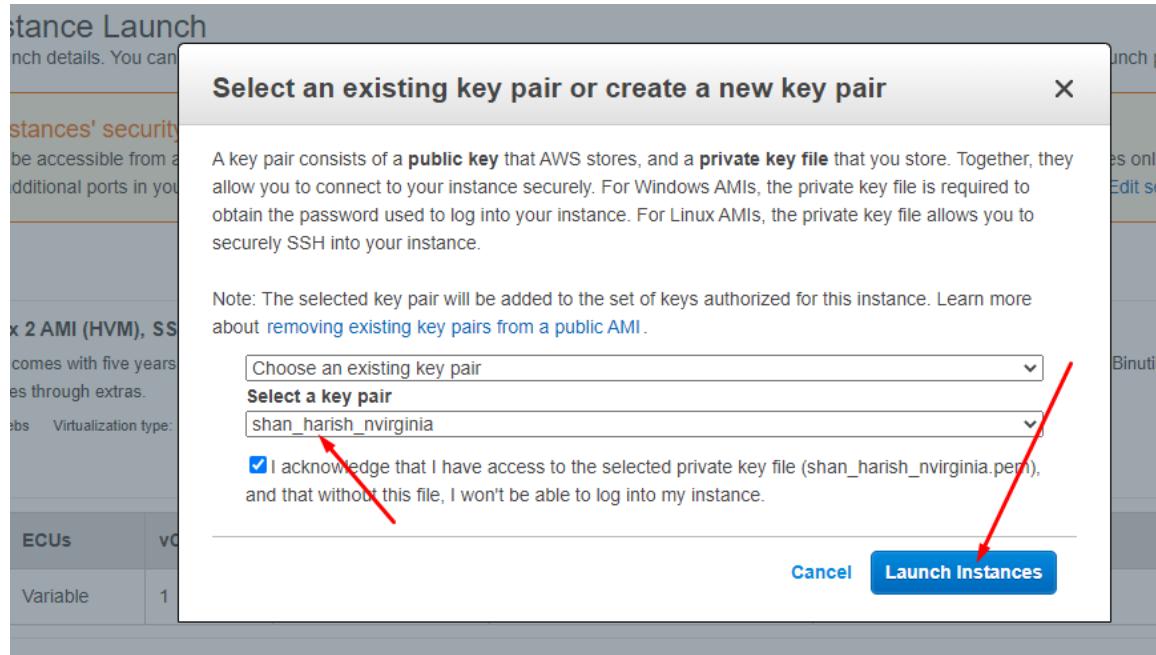
Type	Protocol	Port Range	Source	Description
All traffic	All	0 - 65535	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

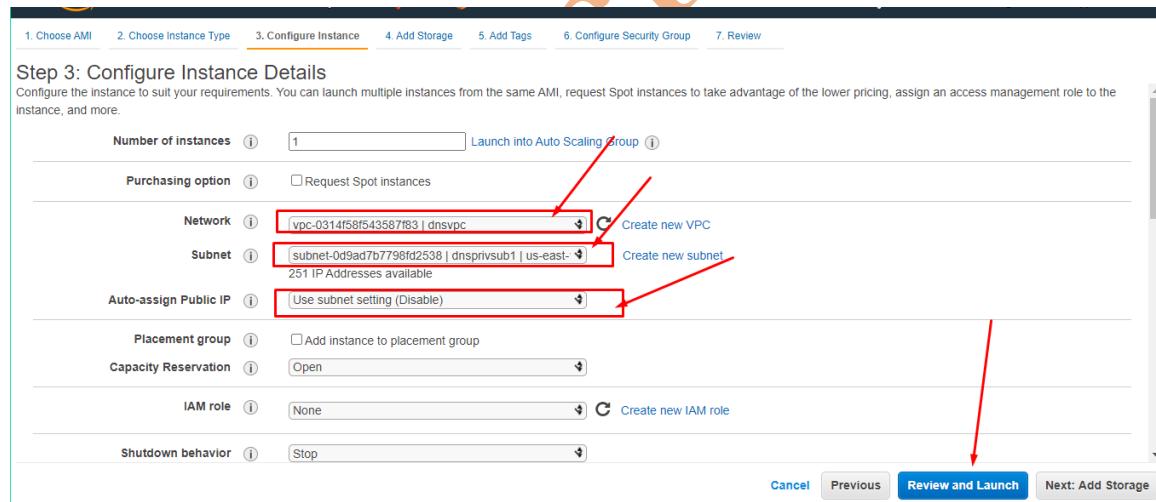
Warning: Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

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Creating PrivServer:



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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security Group ID	Name	Description	Actions
<input type="checkbox"/> sg-0e2fce0bd9657695b	default	default VPC security group	Copy to new
<input checked="" type="checkbox"/> sg-02266f26b491ffe0	dnsvc_sg	launch-wizard-3 created 2020-08-24T19:05:06.088+04:00	Copy to new

Inbound rules for sg-02266f26b491ffe0 (Selected security groups: sg-02266f26b491ffe0)

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	

[Cancel](#) [Previous](#) [Review and Launch](#)

New EC2 Experience Tell us what you think

EC2 Dashboard [New](#)

Events [New](#)

Tags

Limits

Instances [New](#)

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts [New](#)

Scheduled Instances

Capacity Reservations

Launch Instance Connect Actions

Key Name: shan_harish_novirginia Add filter

1 to 2 of 2

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
<input checked="" type="checkbox"/> dnsprivserver	i-0ed478cbe42309f62	t2.micro	us-east-1b	running	OK	None	ec2-3-89-
<input type="checkbox"/> dnspubserver	i-04a0292049982...	t2.micro	us-east-1a	running	OK	None	ec2-3-89-

Instance: i-0ed478cbe42309f62 (dnsprivserver) Private IP: 10.12.20.101

Description Status Checks Monitoring Tags

Before performing hosted zones lets test the connectivity:

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EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Scheduled Instances

Capacity Reservations

Images

AMIs

Launch Instance Connect Actions

Key Name: shan_harish_nvirginia Add filter

Name Instance ID Instance Type Availability Zone Instance State Status Checks Alarm Status

dnsprivserver i-0ed478cbe42309f62 t2.micro us-east-1b running Initializing None

dnspubserver i-04a0029204998252 t2.micro us-east-1a running Initializing None

Instance: i-04a0029204998252 (dnspubserver) Public DNS: ec2-3-89-32-52.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID: i-04a0029204998252 Public DNS (IPv4): ec2-3-89-32-52.compute-1.amazonaws.com
Instance state: running IPv4 Public IP: 3.89.32.52
Instance type: t2.micro IPv6 IPs: -
Finding: Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS: ip-10-12-15-137.ec2.internal Elastic IPs:
Private IPs: 10.12.15.137 Availability zone: us-east-1a
Secondary private IPs: VPC ID: vpc-0314f58f543587f83 (dnsvpc)
Scheduled events: Security groups: dnsvpc_sg, view inbound rules, view outbound rules
AMI ID: amzn2-ami-hvm-2.0.20200722.0-x86_64-
No scheduled events

EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Scheduled Instances

Capacity Reservations

Images

Launch Instance Connect Actions

Key Name: shan_harish_nvirginia Add filter

Name Instance ID Instance Type Availability Zone Instance State Status Checks Alarm Status

dnsprivserver i-0ed478cbe42309f62 t2.micro us-east-1b running 2/2 checks ... None

dnspubserver i-04a0029204998252 t2.micro us-east-1a running 2/2 checks ... None

Instance type: t2.micro Finding: Opt-in to AWS Compute Optimizer for recommendations. Learn more
Private DNS: ip-10-12-20-101.ec2.internal
Private IPs: 10.12.20.101 Elastic IPs:
Secondary private IPs: VPC ID: vpc-0314f58f543587f83 (dnsvpc)
Platform: Amazon Linux Subnet ID: subnet-0d9ad7b77998fd2538 (dnsprivsub1)
Platform details: Linux/UNIX Network interfaces: eth0
Usage operation: RunInstances IAM role: -
Source/dest. check: True Key pair name: shan_harish_nvirginia
T2/T3 Unlimited Disabled

[root@ip-10-12-15-137:~]# ping 10.12.20.101

PING 10.12.20.101 (10.12.20.101) 56(84) bytes of data.
64 bytes from 10.12.20.101: icmp_seq=1 ttl=255 time=0.949 ms
64 bytes from 10.12.20.101: icmp_seq=2 ttl=255 time=0.855 ms
64 bytes from 10.12.20.101: icmp_seq=3 ttl=255 time=0.850 ms
^C
--- 10.12.20.101 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2033ms
rtt min/avg/max/mdev = 0.855/0.891/0.949/0.047 ms

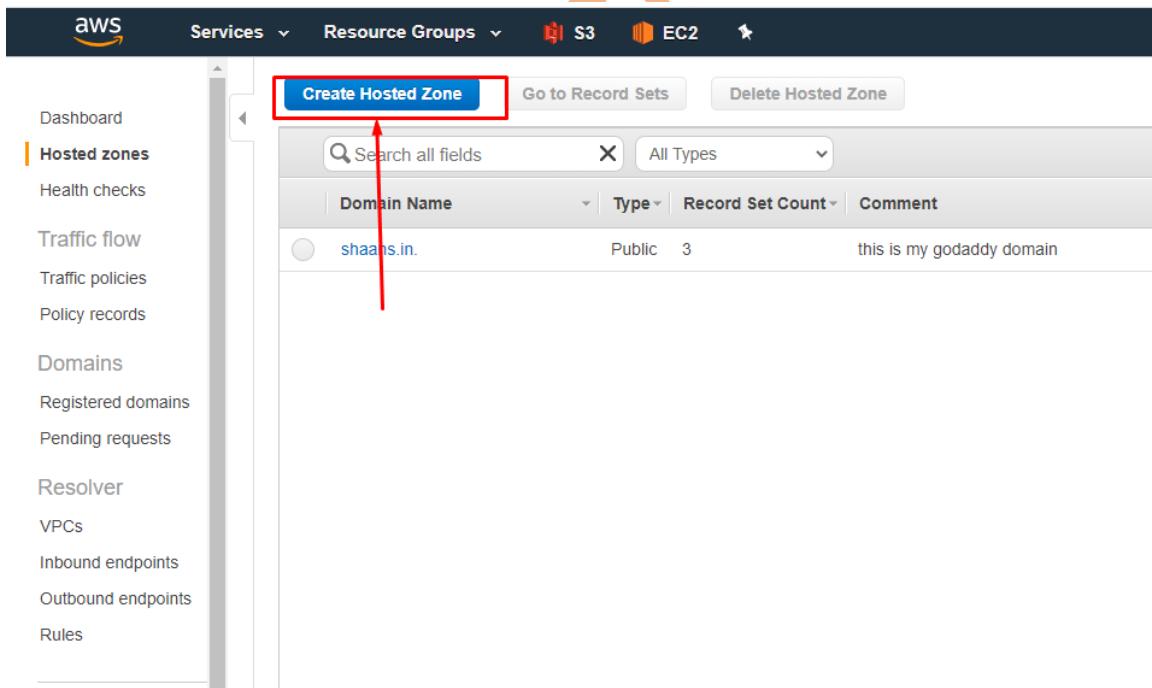
[root@dnspubserver ~]#

DVS Technologies

```
[root@dnspubserver ~]# ping 10.12.20.101
PING 10.12.20.101 (10.12.20.101) 56(84) bytes of data.
64 bytes from 10.12.20.101: icmp_seq=1 ttl=255 time=0.848 ms
64 bytes from 10.12.20.101: icmp_seq=2 ttl=255 time=0.881 ms
^C
--- 10.12.20.101 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1014ms
rtt min/avg/max/mdev = 0.848/0.864/0.881/0.033 ms
[root@dnspubserver ~]# ping dnsprivserver.dvbatch4.com
ping: dnsprivserver.dvbatch4.com: Name or service not known
[root@dnspubserver ~]#
```

As you can see our naming resolution is not working. Let's work on our Route53 configuration

Create Private Hosted Zones:



The screenshot shows the AWS Route53 service dashboard. On the left sidebar, under the 'Hosted zones' section, the 'Hosted zones' link is selected. In the main content area, there is a 'Create Hosted Zone' button highlighted with a red box and a red arrow pointing to it. Below the button is a search bar and a table listing existing hosted zones. One entry in the table is 'shaans.in.' with a status of 'Public' and a record set count of '3'. A comment for this zone is 'this is my godaddy domain'.

DVS Technologies

Domain Name: dvsbatch4.com
Comment: mybatch4
Type: Private Hosted Zone for Amazon VPC
Region: US East (Ohio)
VPC ID: vpc-0314f58f543587f83 | us-east-1

Comment: mybatch4
Type: Private Hosted Zone for Amazon VPC
VPC ID: vpc-0314f58f543587f83 | us-east-1
Important
To use private hosted zones, you must set the following Amazon VPC settings to true:

- enableDnsHostnames
- enableDnsSupport

Create

DVS Technologies

Screenshot of the AWS Route 53 Hosted Zones page. The left sidebar shows navigation options like Dashboard, Hosted zones, Traffic flow, and Domains. The main area displays a table of hosted zones:

Domain Name	Type	Record Set Count	Comment	Hosted Zone ID
shaans.in.	Public	3	this is my godaddy domain	Z05990972G96U1SMAON
dvsbatch4.com.	Private	2	mybatch4	Z09346198BCTEIYWEED

Screenshot of the AWS Route 53 Create Record Set page for the dvsbatch4.com zone. The left sidebar shows navigation options. The main area displays a table of record sets:

Name	Type	Value
ns-1536.awsdns-00.co.uk.	NS	ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.
ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amazon.com.	SOA	-

A red arrow points to the 'Create Record Set' button at the top of the page.

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AWS Route 53 - Hosted Zones

Create Record Set

Name: dnsprivserver.dvbatch4.com.

Type: A - IPv4 address

Alias: No

TTL (Seconds): 10m

Value: 10.12.20.101

Routing Policy: Simple

Create

AWS Route 53 - Hosted Zones

Record Set Name: Any Type Aliases Only Weighted Only

Name Type Value

ns-1536.awsdns-00.co.uk. NS ns-0.awsdns-00.com.
ns-1024.awsdns-00.org.
ns-512.awsdns-00.net.

dvbatch4.com. SOA ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amazon.com.

dnsprivserver.dvbatch4.com. A 10.12.20.101

```
ping: dnsprivserver.dvbatch4.com: Name or service not known
[root@dnspubserver ~]# ping dnsprivserver.dvbatch4.com
PING dnsprivserver.dvbatch4.com (10.12.20.101) 56(84) bytes of data.
64 bytes from ip-10-12-20-101.ec2.internal (10.12.20.101): icmp_seq=1 ttl=255 time=0.824 ms
64 bytes from ip-10-12-20-101.ec2.internal (10.12.20.101): icmp_seq=2 ttl=255 time=0.910 ms
64 bytes from ip-10-12-20-101.ec2.internal (10.12.20.101): icmp_seq=3 ttl=255 time=0.947 ms
64 bytes from ip-10-12-20-101.ec2.internal (10.12.20.101): icmp_seq=4 ttl=255 time=0.931 ms
64 bytes from ip-10-12-20-101.ec2.internal (10.12.20.101): icmp_seq=5 ttl=255 time=0.906 ms
64 bytes from ip-10-12-20-101.ec2.internal (10.12.20.101): icmp_seq=6 ttl=255 time=0.866 ms
^C
--- dnsprivserver.dvbatch4.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5006ms
rtt min/avg/max/mdev = 0.824/0.897/0.947/0.047 ms
[root@dnspubserver ~]#
```

5. S3 Static Web hosting with Route53

Let's create one bucket with name "fruits.shaans.in"

Note: MAKE SURE THAT BUCKETNAME & WEBSITE NAMES ARE SAME

The screenshot shows the AWS S3 console. On the left, there is a sidebar with options like 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main area is titled 'S3 buckets' and shows a search bar and a 'Create bucket' button. Below the search bar, there is a table listing five existing buckets:

Bucket name	Access	Region	Last modified
dvs-batch4	Bucket and objects not public	US East (N. Virginia)	Aug 15, PM GM
dvs-dest7	Bucket and objects not public	US East (Ohio)	Aug 17, PM GM
dvs-mystaticwebhosting	Public	US East (N. Virginia)	Aug 17, PM GM
q6s3bucket	Bucket and objects not public	US East (Ohio)	Aug 23, PM GM

A red arrow points from the 'Create bucket' button in the top navigation bar to the 'Create bucket' button in the 'Name and region' step of the 'Create bucket' dialog. Another red arrow points from the 'Create' button in the 'Name and region' step to the 'Create' button at the bottom right of the dialog.

Create bucket

① Name and region ② Configure options ③ Set permissions ④ Review

Name and region

Bucket name: fruits.shaans.in

Region: Asia Pacific (Mumbai)

Copy settings from an existing bucket

Select bucket (optional): 4 Buckets

Create Cancel Next

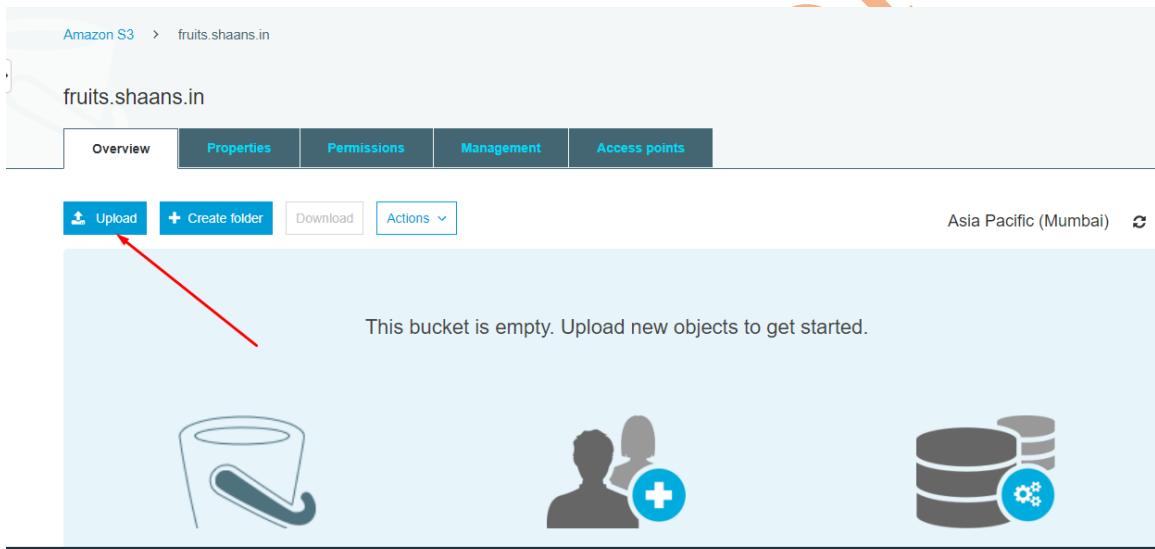
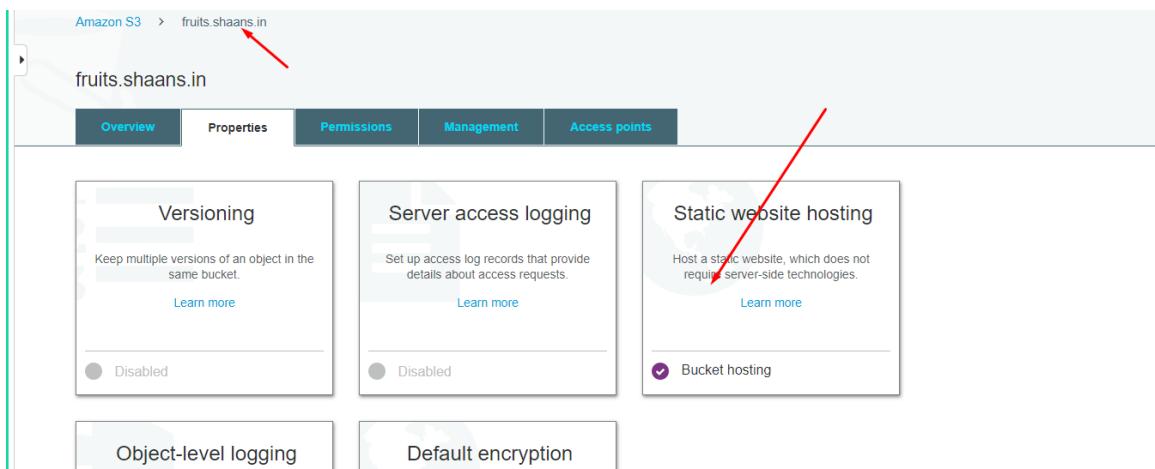
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The screenshot shows the AWS S3 buckets management interface. On the left sidebar, under 'Amazon S3', there are links for 'Buckets', 'Batch operations', 'Access analyzer for S3', 'Block public access (account settings)', and 'Feature spotlight'. The main area is titled 'S3 buckets' with a search bar and a dropdown for 'All access types'. A red box highlights the 'Create bucket' button. Below it, a table lists five buckets: 'dvs-batch4', 'dvs-dest7', 'dvs-mystaticwebhosting', 'fruits.shaans.in' (which is selected and highlighted with a red box), and 'q6s3bucket'. The 'fruits.shaans.in' row shows 'Public' access, 'US East (N. Virginia)' region, and was created on 'Aug 15, 2020 1:34:06 PM GMT+0400'.

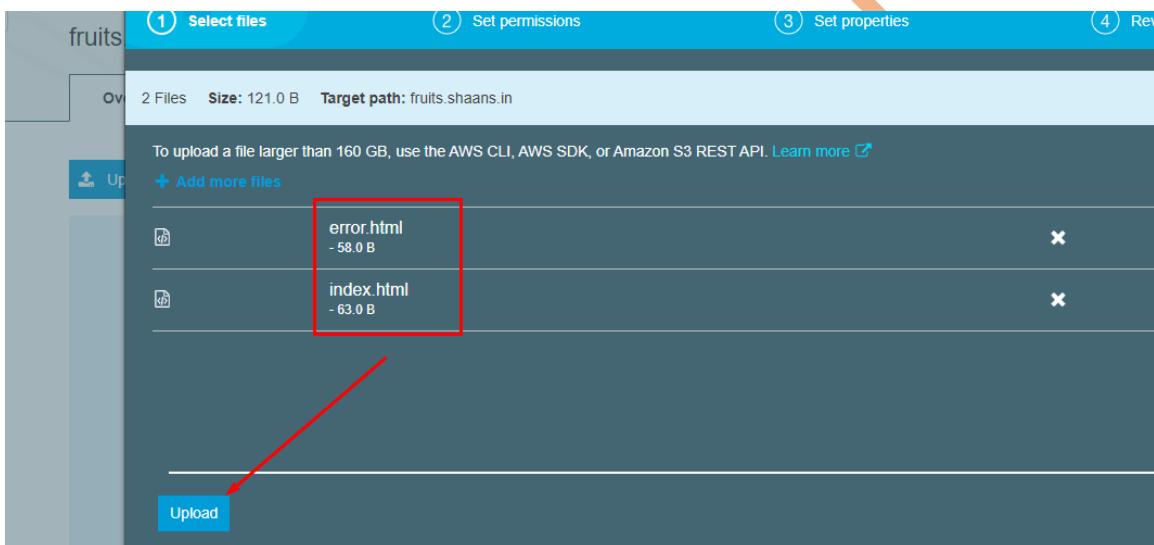
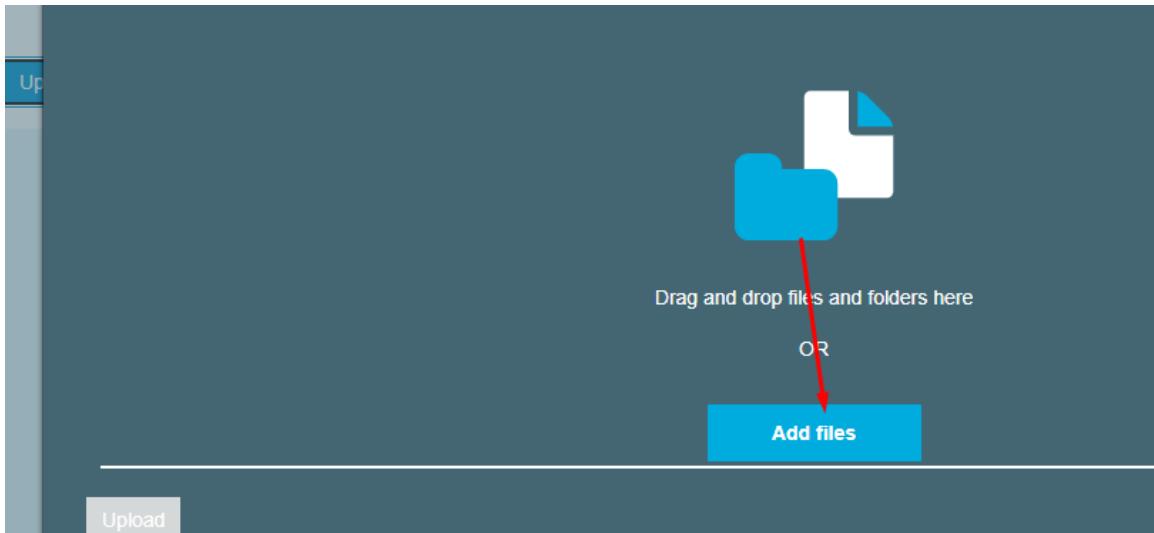
This screenshot shows the 'Properties' tab for the 'fruits.shaans.in' bucket. At the top, the path 'Amazon S3 > fruits.shaans.in' is shown. Below the tabs, there are several configuration sections: 'Versioning' (disabled), 'Server access logging' (disabled), 'Static website hosting' (disabled), 'Object-level logging' (disabled), and 'Default encryption' (disabled). Red arrows point from the 'Properties' tab to each of these sections.

This screenshot shows the 'Static website hosting' configuration for the 'fruits.shaans.in' bucket. It displays the endpoint 'http://fruits.shaans.in.s3-website.ap-south-1.amazonaws.com'. Under 'Use this bucket to host a website', there are fields for 'Index document' (set to 'index.html') and 'Error document' (set to 'error.html'). A red box highlights the endpoint URL. Another red box highlights the 'index.html' field. A third red box highlights the 'error.html' field. There is also a section for 'Redirection rules (optional)'.

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The screenshot shows the AWS S3 console for the bucket 'fruits.shaans.in'. The 'Properties' tab is selected. A red arrow points from the 'Block public access' button to the 'Block all public access' setting, which is turned 'On'. Another red arrow points from the 'Permissions' tab to the 'Bucket Policy' section, where a policy document is displayed. A third red arrow points from the 'Save' button in the policy editor back to the 'Save' button at the top right of the main screen.

Amazon S3 > fruits.shaans.in

fruits.shaans.in

Overview Properties Permissions Management Access points

Block public access Access Control List Bucket Policy CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
On

Block public access to buckets and objects granted through new access control lists (ACLs)
On

Block public access (bucket settings)

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.

Cancel Save

Overview Properties Permissions Management Access points

Block public access Access Control List Bucket Policy CORS configuration

Bucket policy editor ARN: arn:aws:s3:::fruits.shaans.in
Type to add a new policy or edit an existing policy in the text area below.

`1 {
2 "Version": "2012-10-17",
3 "Id": "Policy1580494002926",
4 "Statement": [
5 {
6 "Sid": "Stmt1580494002926",
7 "Effect": "Allow",
8 "Principal": "*",
9 "Action": "s3:Object",
10 "Resource": "arn:aws:s3:::fruits.shaans.in/*"
11 }
12]
13 }`

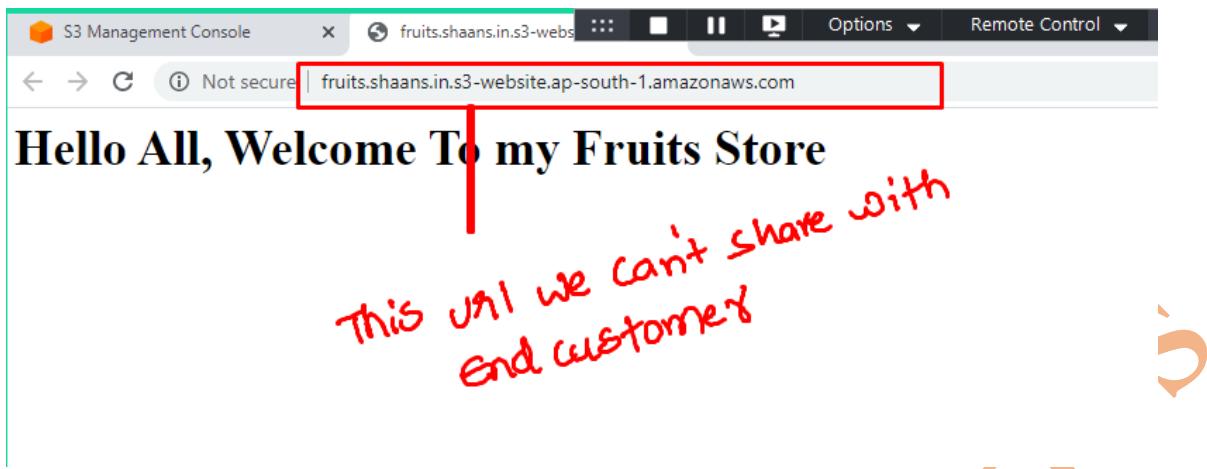
Delete Cancel Save

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Try to access the website:

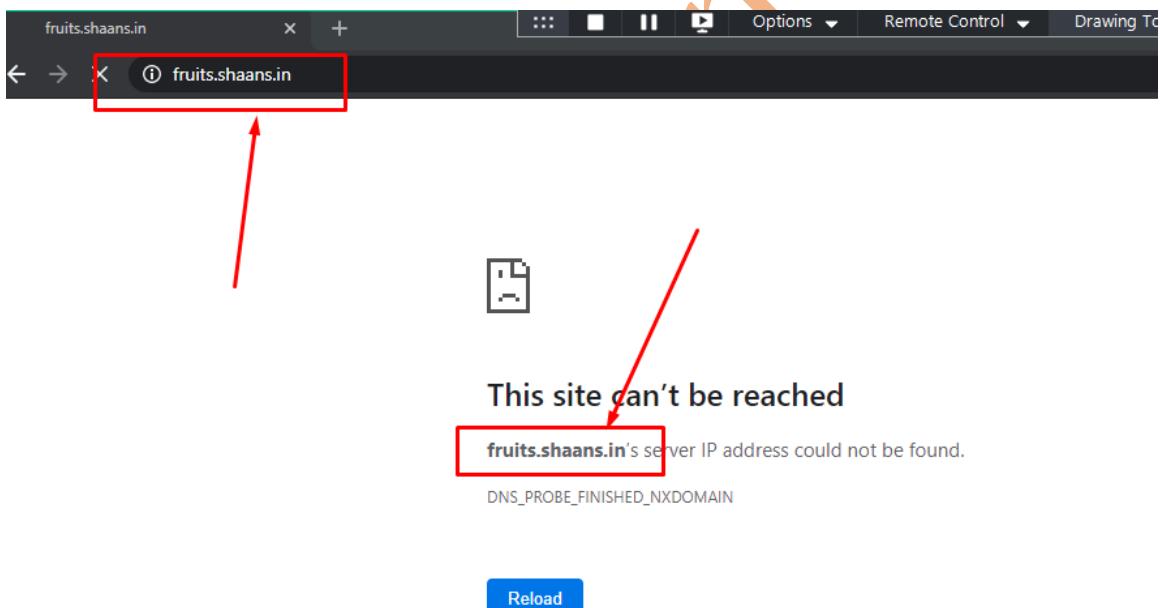
The screenshot shows the Amazon S3 console for the 'fruits.shaans.in' bucket. The 'Properties' tab is selected. In the 'Static website hosting' section, there is a note: 'Host a static website, which does not require server-side technologies.' Below it, a checkbox labeled 'Bucket hosting' is checked. A red arrow points from this section to the 'Bucket hosting' checkbox. In the foreground, a modal dialog titled 'Static website hosting' is open. It displays the endpoint: <http://fruits.shaans.in.s3-website.ap-south-1.amazonaws.com>. A red box highlights this endpoint. Below it, there are fields for 'Index document' (set to 'index.html') and 'Error document' (set to 'error.html'). A red arrow points from the highlighted endpoint in the dialog to the 'index.html' field.

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Mapping my S3 bucket URL with my custom website i.e., "fruits.shaans.in"

Before: changes



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Screenshot of the AWS Route 53 service showing the 'Hosted zones' section. The 'Hosted zones' menu item is selected. A red box highlights the 'shaans.in.' entry, which is a public domain with 3 record sets. A red arrow points from the 'Create Hosted Zone' button at the top left to the 'shaans.in.' entry.

Domain Name	Type	Record Set Count	Comment	Hosted Zone ID
shaans.in.	Public	3	this is my godaddy domain	Z05990972G95U1SMAON9
dvsbatch4.com.	Private	3	mybatch4	Z09346198BCTEIYWEEL

Screenshot of the AWS Route 53 service showing the 'Create Record Set' page for the 'shaans.in.' hosted zone. The 'Create Record Set' button is highlighted with a red arrow.

Name	Type	Value	Evaluate Target Health
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.	-
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon. ns-1776.awsdns-30.co.uk. awsdns-ns-1776.awsdns-30.co.uk.	-
myapp.shaans.in.	A	18.234.169.49	-

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Record Set Name: fruits.shaans.in.

Type: A - IPv4 address

Alias: Yes

Alias Target: S3 website endpoints

Routing Policy: Simple

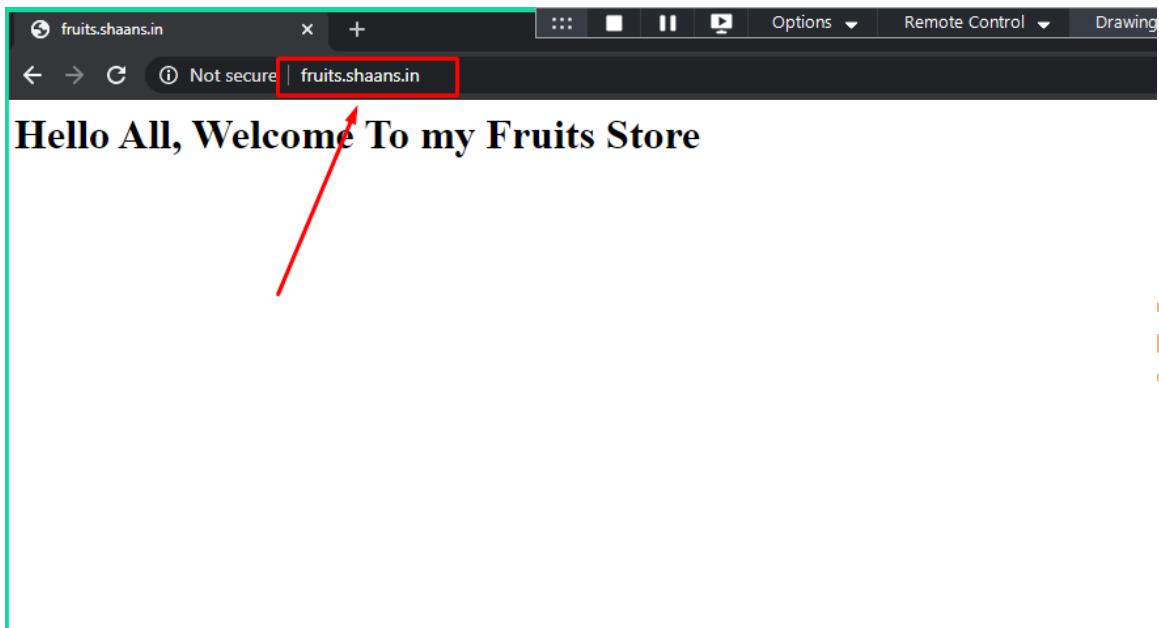
Record Set Name: fruits.shaans.in.

Type: A - IPv4 address

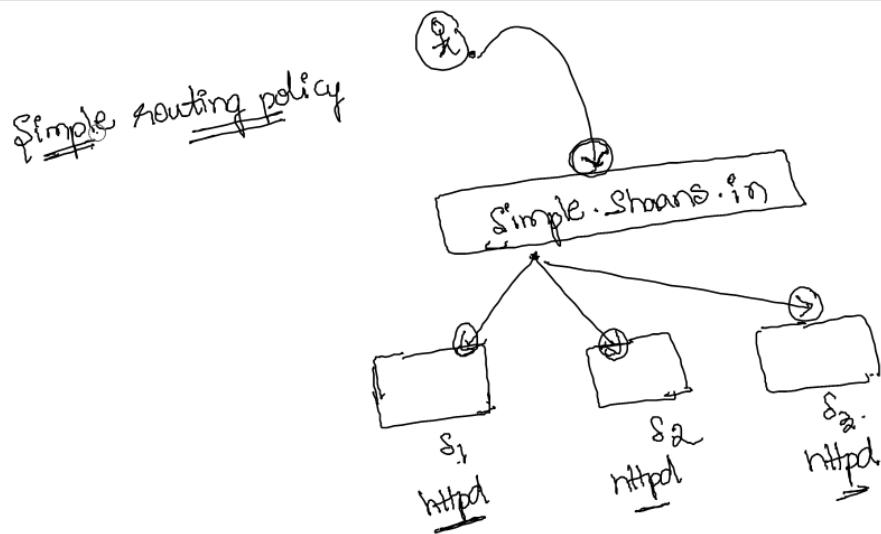
Alias: Yes

Alias Target: s3-website.ap-south-1.amazonaws.com

Create



6. Simple Routing Policy



5

Make sure that you are bringing 3 servers with below configuration

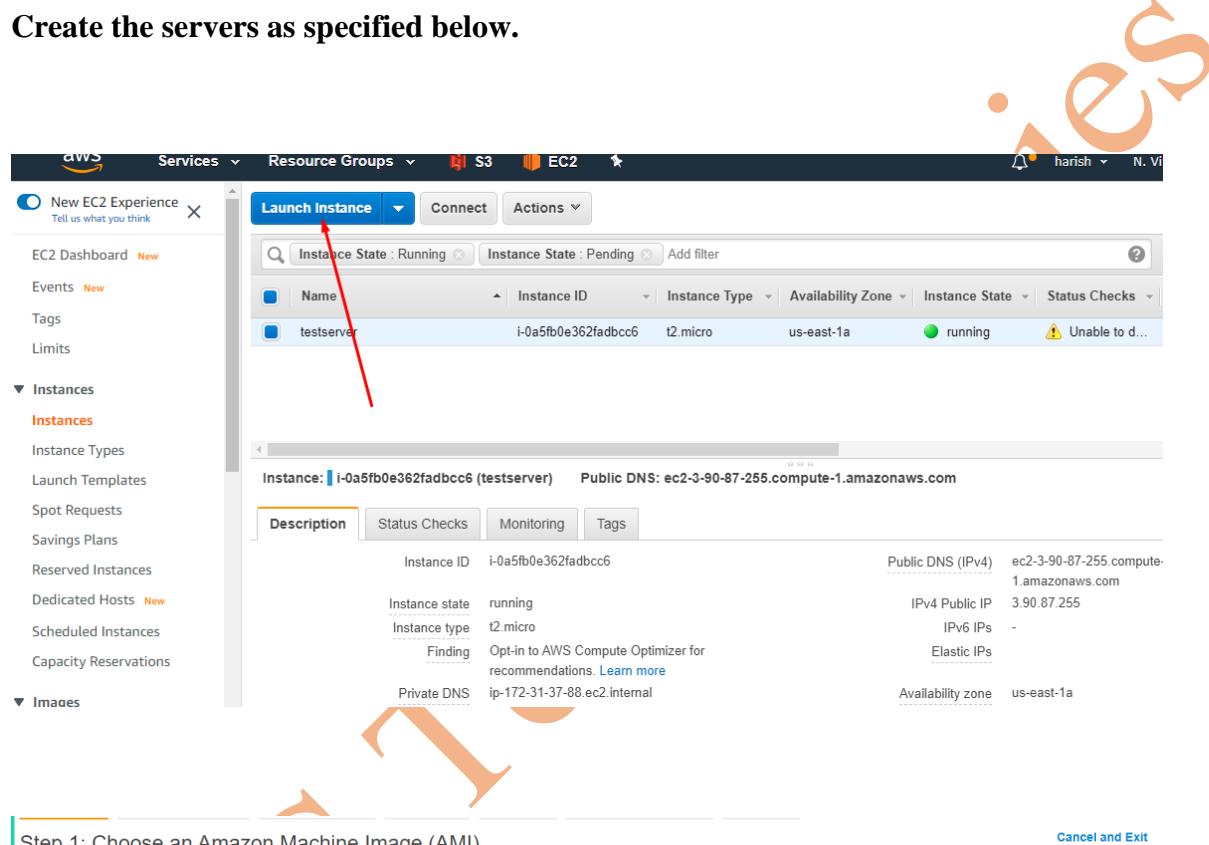
BOOTSTRAP CODE:

DVS Technologies, Opp Home Town, Beside Biryani Zone, Marathahalli, Bangalore Phone: 9632558585 Mobile: 8892499499 Mail : dvs.training@gmail.com Web: www.dvstechnologies.in

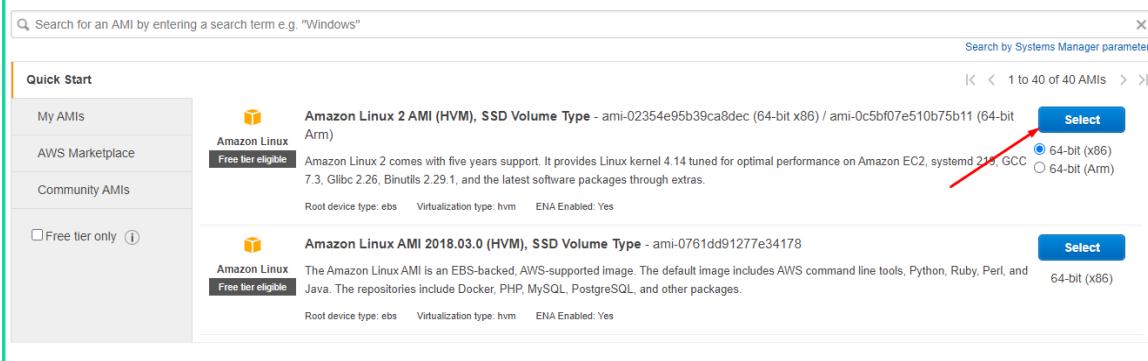
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```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
sed -i "88s/Test Page/${ec2-metadata -p|awk '{print $2}')/''"
/usr/share/httpd/noindex/index.html
systemctl restart httpd
```

Create the servers as specified below.



Step 1: Choose an Amazon Machine Image (AMI)
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.



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Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances Launch into Auto Scaling Group

Purchasing option Request Spot instances

Network

Subnet

Auto-assign Public IP

Placement group Add instance to placement group

Capacity Reservation

IAM role

REMEMBER THE COUNT

Step 3: Configure Instance Details Additional charges apply.

T2/T3 Unlimited Enable Additional charges may apply

File systems

Advanced Details

Metadata accessible

Metadata version

Metadata token response hop limit

User data As text As file Input is already base64 encoded

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
sed -i "88s/Test Page/$ec2-metadata -p awk '{print $2}'/" "/usr/share/httpd/html/index.html"
systemctl restart httpd
```

Cancel Previous Next: Add Storage

Step 6: Configure Security Group

Assign a security group: Create a new security group Select an existing security group

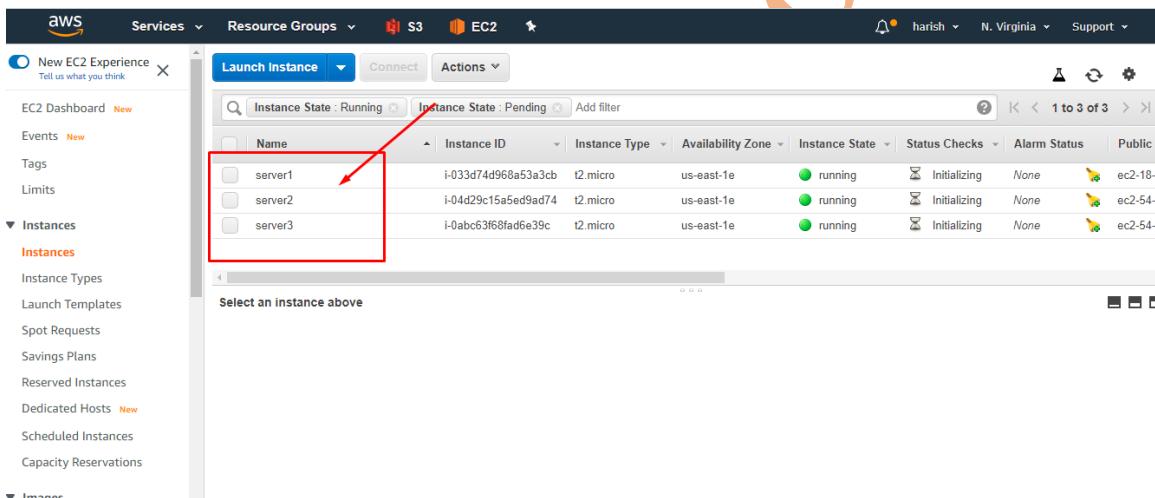
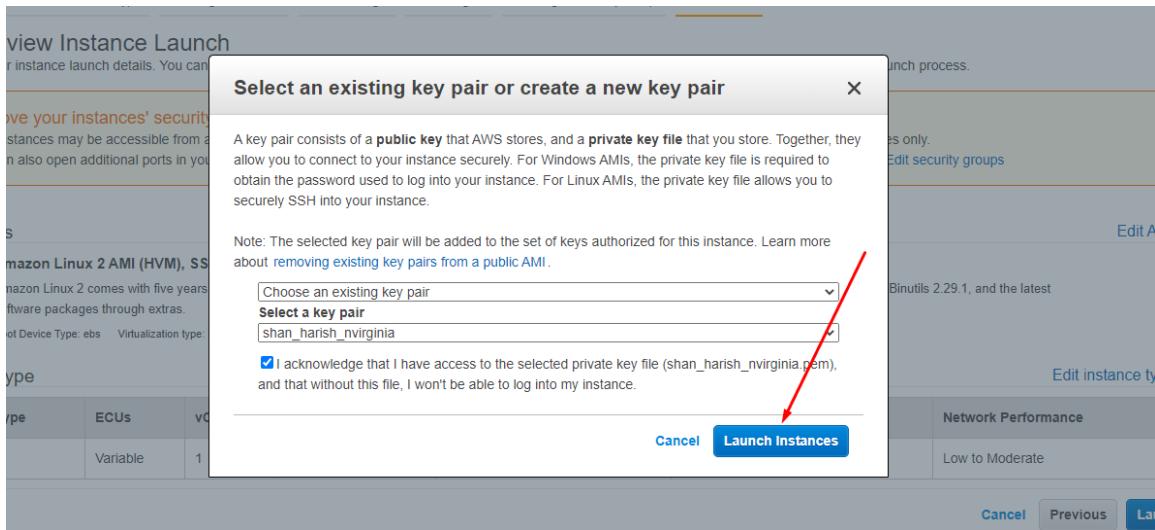
Security Group ID	Name	Description	Actions
sg-68a47653	default	default VPC security group	<input type="button" value="Copy to new"/>
sg-0775e7b44bedc9602	launch-wizard-1	launch-wizard-1 created 2020-08-23T07:53:41.517+05:30	<input type="button" value="Copy to new"/>
sg-01592aea9d3082ed	launch-wizard-2	launch-wizard-2 created 2020-08-24T08:16:57.334+04:00	<input type="button" value="Copy to new"/>
sg-07e836b03a7715a9b	launch-wizard-3	launch-wizard-3 created 2020-08-25T18:20:20.729+04:00	<input type="button" value="Copy to new"/>
sg-08e5509c258dc09a2	opentoworld	launch-wizard-1 created 2020-08-07T19:47:10.516+04:00	<input type="button" value="Copy to new"/>

Inbound rules for sg-08e5509c258dc09a2 (Selected security groups: sg-08e5509c258dc09a2)

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	

Cancel Previous

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Server Testing:

DVS Technologies

New EC2 Experience Tell us what you think X

EC2 Dashboard New

Events New

Tags

Limits

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Scheduled Instances Capacity Reservations

Launch Instance Connect Actions

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public IP
server1	i-033d74d968a53a3cb	t2.micro	us-east-1e	running	Initializing	None	ec2-18-210-17-255.compute-1.amazonaws.com
server2	i-04d29c15a5ed9ad74	t2.micro	us-east-1e	running	Initializing	None	ec2-54-237-224-62.compute-1.amazonaws.com
server3	i-0abc63f68fad6e39c	t2.micro	us-east-1e	running	Initializing	None	ec2-54-167-179-94.compute-1.amazonaws.com

Test Page for the Apache HTTP Server Not secure | 18.210.17.255 Incognito

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:
The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you are the website administrator:
You may now add content to the directory /var/www/html/. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the



New EC2 Experience Tell us what you think X

Dashboard New

Events New

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Scheduled Instances Capacity Reservations

Launch Instance Connect Actions

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public IP
server1	i-033d74d968a53a3cb	t2.micro	us-east-1e	running	Initializing	None	ec2-18-210-17-255.compute-1.amazonaws.com
server2	i-04d29c15a5ed9ad74	t2.micro	us-east-1e	running	Initializing	None	ec2-54-237-224-62.compute-1.amazonaws.com
server3	i-0abc63f68fad6e39c	t2.micro	us-east-1e	running	Initializing	None	ec2-54-167-179-94.compute-1.amazonaws.com

Test Page for the Apache HTTP Server Not secure | 54.237.224.62 Incognito

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:
The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you are the website administrator:
You may now add content to the directory /var/www/html/. Note that until

New EC2 Experience Tell us what you think X

Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts New Scheduled Instances Capacity Reservations

Launch Instance Connect Actions

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public IP
server1	i-033d74d968a53a3cb	t2.micro	us-east-1e	running	Initializing	None	ec2-18-210-17-255.compute-1.amazonaws.com
server2	i-04d29c15a5ed9ad74	t2.micro	us-east-1e	running	Initializing	None	ec2-54-237-224-62.compute-1.amazonaws.com
server3	i-0abc63f68fad6e39c	t2.micro	us-east-1e	running	Initializing	None	ec2-54-167-179-94.compute-1.amazonaws.com

Test Page for the Apache HTTP Server Not secure | 54.167.179.94 Incognito

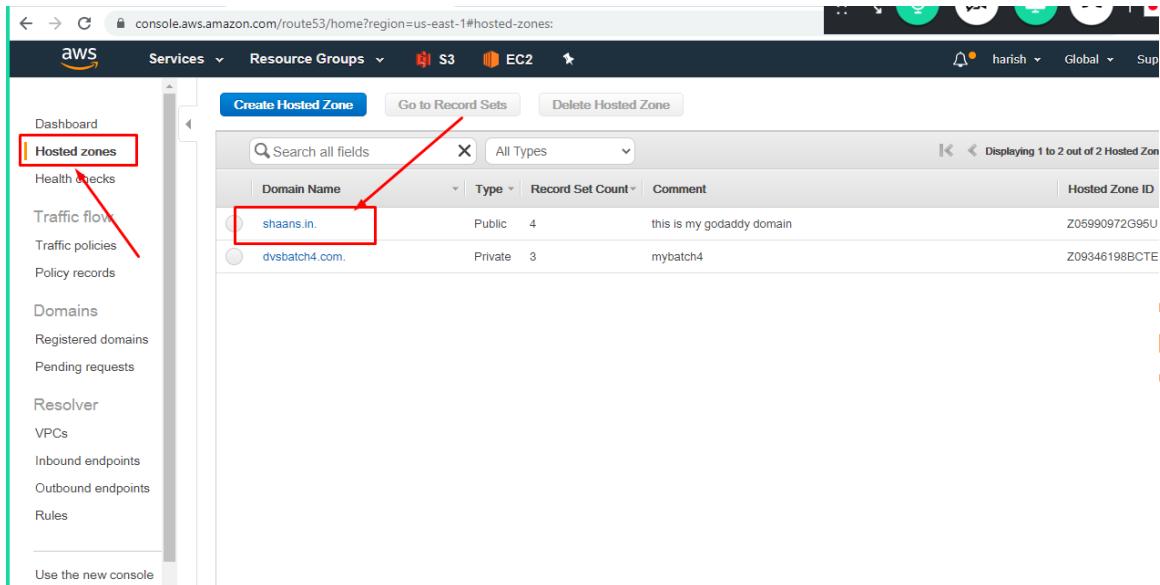
This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:
The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you are the website administrator:
You may now add content to the directory /var/www/html/. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the

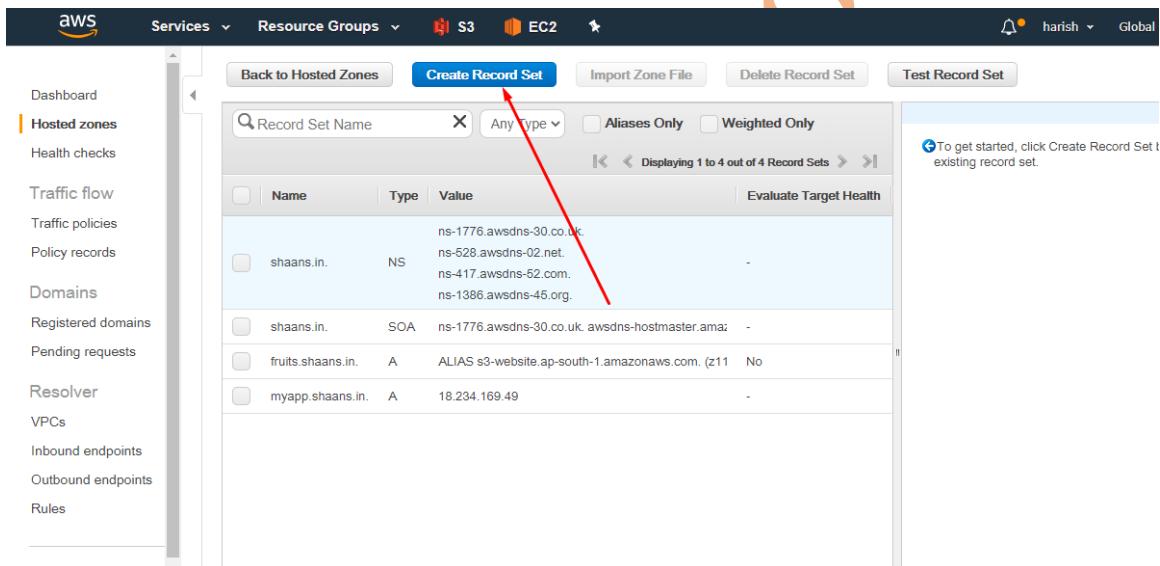
Route53 Configuration:

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Screenshot of the AWS Route 53 console showing the list of hosted zones. The left sidebar shows various options like Dashboard, Hosted zones, Health checks, Traffic flow, etc. A red box highlights the 'Hosted zones' link. The main area shows a table with two entries:

Domain Name	Type	Record Set Count	Comment	Hosted Zone ID
shaans.in.	Public	4	this is my godaddy domain	Z05990972G95U
dvsbatch4.com.	Private	3	mybatch4	Z09346198BCTE



Screenshot of the AWS Route 53 console showing the 'Create Record Set' page for the shaans.in. domain. The left sidebar shows various options like Dashboard, Hosted zones, Health checks, Traffic flow, etc. A red box highlights the 'Create Record Set' button at the top. The main area shows a table with four entries:

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-62.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon. ns-1776.awsdns-30.co.uk. awsdns-ns-1776.awsdns-30.co.uk.
fruits.shaans.in.	A	ALIAS s3-website.ap-south-1.amazonaws.com. (z11 No)
myapp.shaans.in.	A	18.234.169.49

To get started, click Create Record Set to existing record set.

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Record Set Name: simple | shaans.in.

Type: A - IPv4 address

TTL (Seconds): 10

Value:

- 18.210.17.255
- 54.237.224.62
- 54.167.179.94

Routing Policy: Simple

Create

Test Page for the Apache HTTP S... +

Not secure | simple.shaans.in

ec2-54-237-224-62.compute-1.amazonaws.com

*Untitled - Notepad

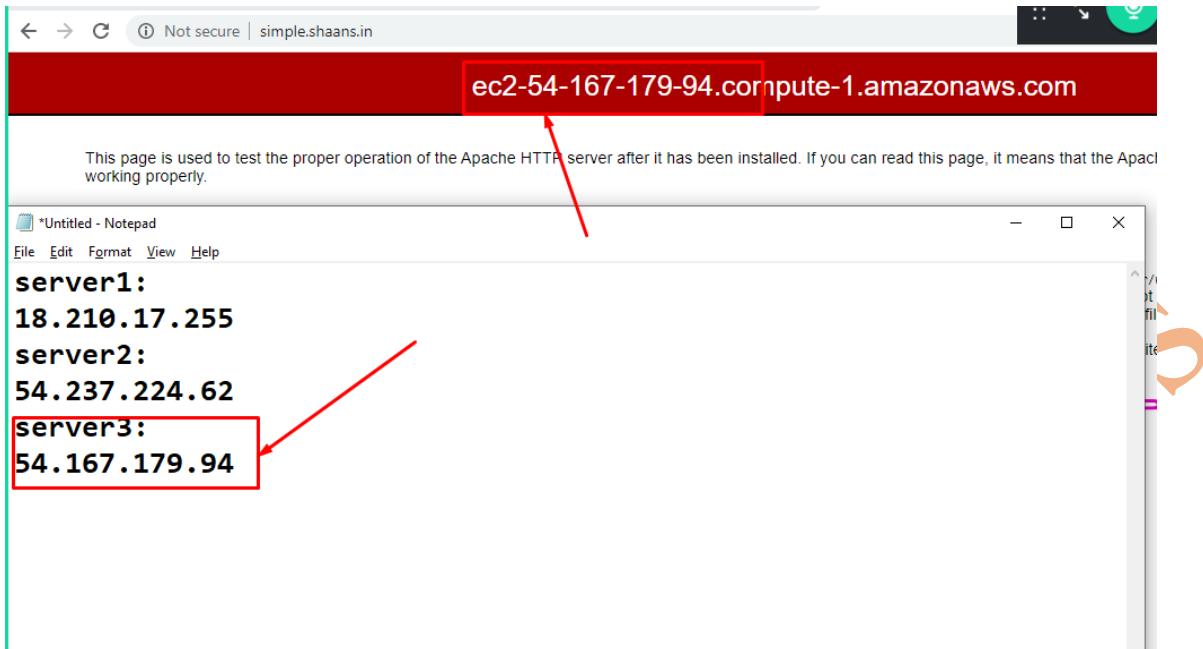
File Edit Format View Help

server1:
18.210.17.255

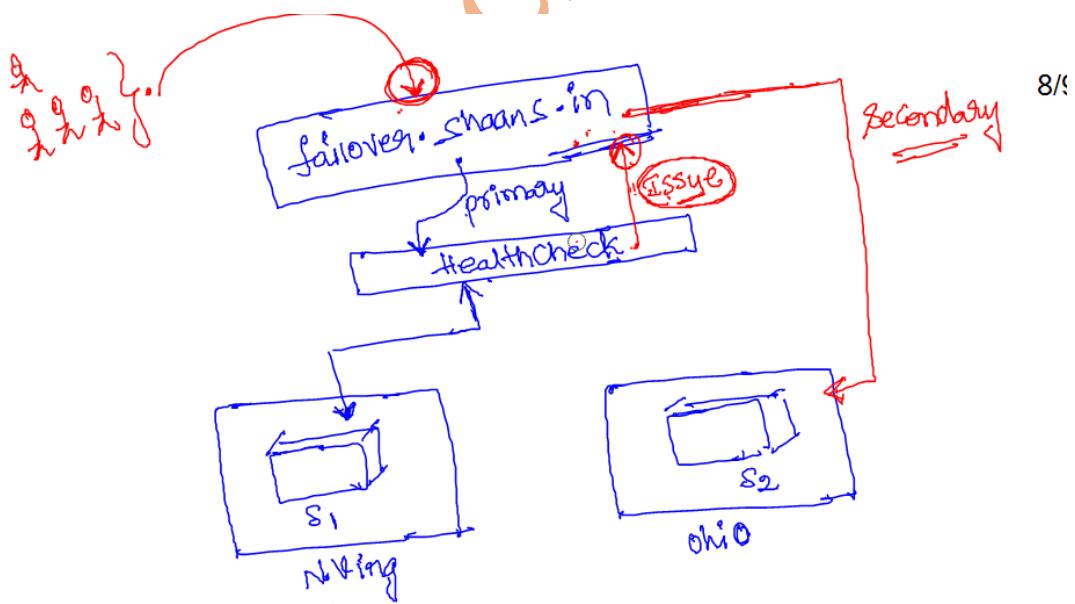
server2:
54.237.224.62

server3:
54.167.179.94

As you see above any one of the server will respond to your request



7. Failover Routing Policy



Let's Configure the things as specified above

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Screenshot of the AWS EC2 instance creation process at Step 3: Configure Instance Details. The region is set to N. Virginia. The User data field contains a shell script:

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from N.Virginia" > /var/www/html/index.html
systemctl restart httpd
```

Buttons at the bottom include Cancel, Previous, Review and Launch (highlighted in blue), and Next: Add.

Screenshot of the AWS EC2 instance creation process at Step 6: Configure Security Group. The security group 'opentoworld' is selected. The 'Review and Launch' button is highlighted in blue.

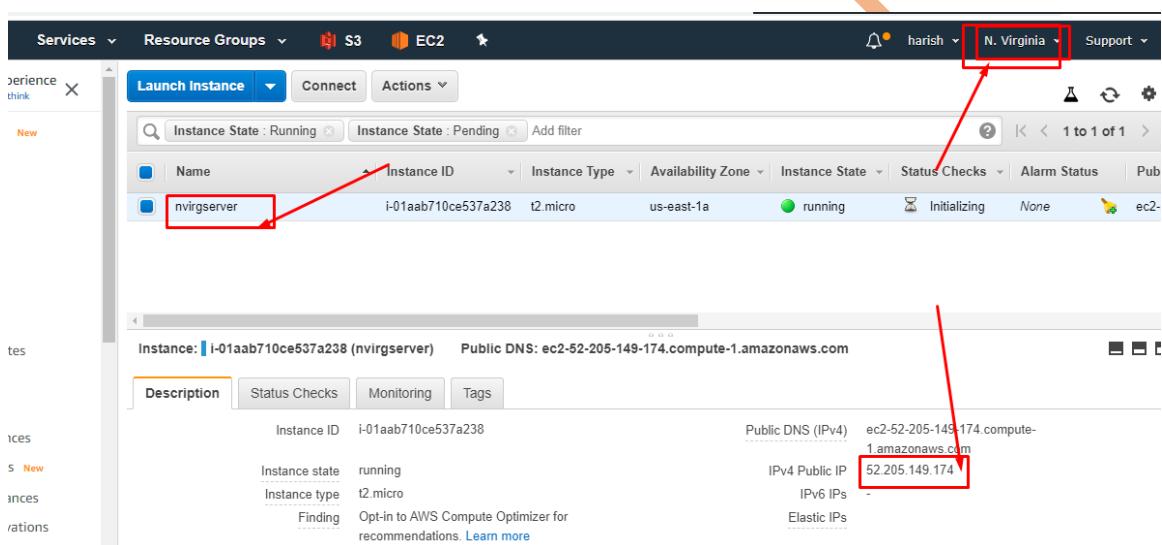
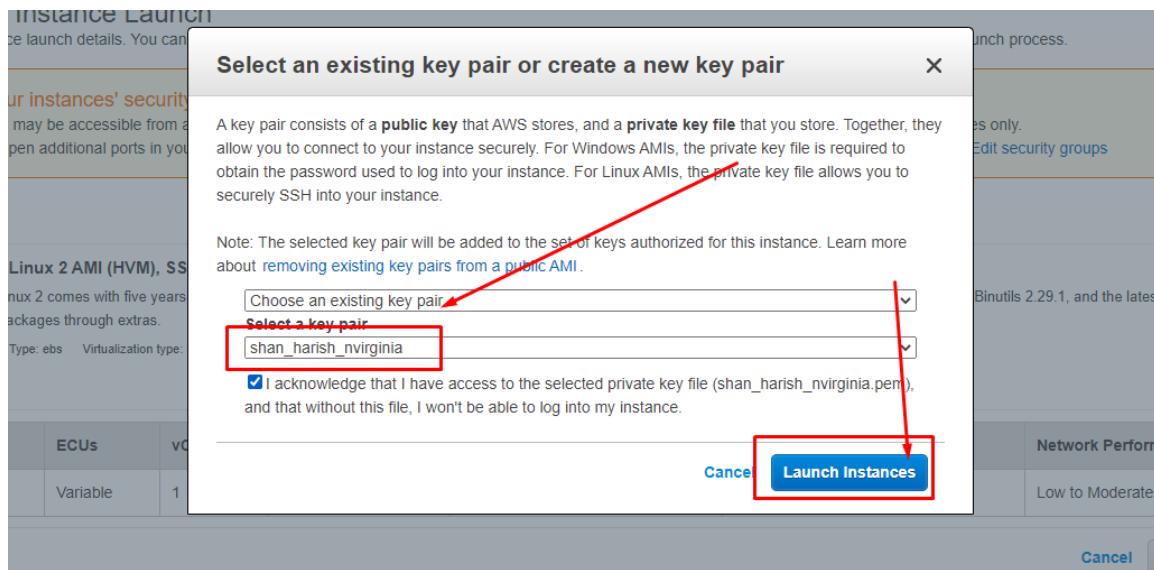
Security Group ID	Name	Description	Actions
sg-68a47653	default	default VPC security group	Rambabu Majeti has Copy to new
sg-0775e7b44bedc9602	launch-wizard-1	launch-wizard-1 created 2020-08-23T07:53:41.517+05:30	Copy to new
sg-01592aea89d3082ed	launch-wizard-2	launch-wizard-2 created 2020-08-24T08:16:57.334+04:00	Copy to new
sg-07e836b03a7715a9b	launch-wizard-3	launch-wizard-3 created 2020-08-25T18:20:20.729+04:00	Copy to new
sg-08e5509c258dc09a2	opentoworld	launch-wizard-1 created 2020-08-07T19:47:10.516+04:00	Copy to new

Inbound rules for sg-08e5509c258dc09a2 (Selected security groups: sg-08e5509c258dc09a2)

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	

Buttons at the bottom include Cancel, Previous, and Review and Launch (highlighted in blue).

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OHIO:

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Step 3: Configure Instance Details

T2/T3 Unlimited Enable Additional charges may apply

File systems

Advanced Details

Metadata accessible: Enabled
Metadata version: V1 and V2 (token optional)
Metadata token response hop limit: 1
User data:

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from Ohio" > /var/www/html/index.html
systemctl restart httpd
```

Cancel Previous Review and Launch Next: Add

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more about Amazon EC2 security groups.](#)

Assign a security group: Create a new security group Select an existing security group

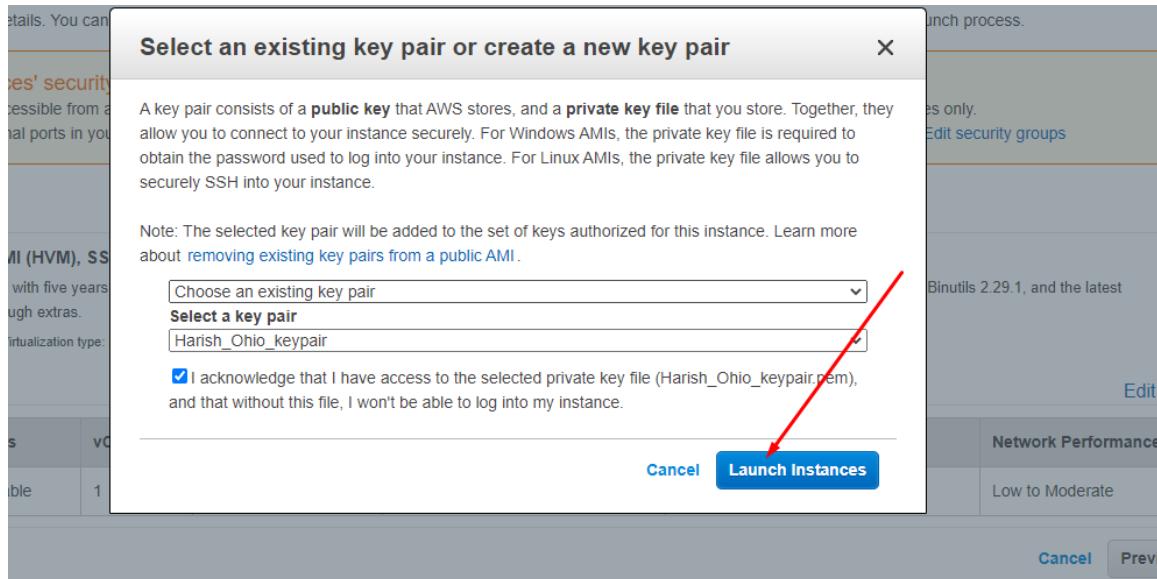
Security Group ID	Name	Description
sg-7fba5102	default	default VPC security group
sg-0a1c984d7e49315a1	launch-wizard-1	launch-wizard-1 created 2020-07-24T18:48:36.238+04:00
sg-02805dde752a5f790	launch-wizard-2	launch-wizard-2 created 2020-08-25T18:32:05.123+04:00
<input checked="" type="checkbox"/> sg-04fa56c50d6ab8877	opentoworld	opentoworld

Inbound rules for sg-04fa56c50d6ab8877 (Selected security groups: sg-04fa56c50d6ab8877)

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	

Cancel Previous Review and Launch

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Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
ohioserver	i-0562c72e70adb16ed	t2.micro	us-east-2b	running	initializing	none	ec2-18-224-17-120.us-east-2.compute.amazonaws.com

Testing the server configuration:

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The screenshot shows the AWS EC2 console. In the Instances section, an instance named "nvirgserver" is selected. A red box highlights the instance name in the list. Below it, a browser window shows the IP address 52.205.149.174. A red box highlights the URL bar, which displays the same IP address. The browser content shows the text "Hi I am from N.Virginia".

The screenshot shows the AWS EC2 console. In the Instances section, an instance named "ohioobserver" is selected. A red box highlights the instance name in the list. Below it, a browser window shows the IP address 18.224.17.120. A red box highlights the URL bar, which displays the same IP address. The browser content shows the text "Hi I am from Ohio".

Configure a health check:

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AWS Services Resource Groups S3 EC2 harish Global Support

Dashboard Hosted zones **Health checks** Create health check

Traffic flow Traffic policies Policy records

Domains Registered domains Pending requests

Resolver VPCs Inbound endpoints Outbound endpoints

Welcome to Route 53 health checks

Route 53 health checks monitor the health and performance of your application's servers, or endpoints, from a network of health checkers in locations around the world. You specify either a domain name or an IP address and a port to create HTTP, HTTPS, and TCP health checks that check the health of the endpoint. To get started, click **Create health check**.

Health check concepts

Availability and performance monitoring

You can use Route 53 health checks for monitoring and alerts. Each health check provides CloudWatch metrics that you can view and set alarms on.

DNS failover

You can also use Route 53 health checks for DNS failover by associating health checks with any Route 53 DNS resource record set. This lets you route requests based on the health of your endpoints.

Create health check

Step 1: Configure health check Step 2: Get notified when health check fails

Configure health check

Route 53 health checks let you track the health status of your resources, such as web servers or mail servers, and take action when an outage occurs.

Name **myfailoverhealthcheck**

What to monitor Endpoint Status of other health checks (calculated health check) State of CloudWatch alarm

Monitor an endpoint

Multiple Route 53 health checkers will try to establish a TCP connection with the following resource to determine whether it's healthy. Learn more

Specify endpoint by IP address Domain name

Protocol **HTTP**

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Monitor an endpoint

Multiple Route 53 health checkers will try to establish a TCP connection with the following resource to determine whether it's healthy.
[Learn more](#)

Specify endpoint by IP address Domain name

Protocol

IP address *

Host name

Port *

Path

```
*Untitled - Notepad
File Edit Format View Help
server1:
52.205.149.174
server2:
18.224.17.120
```

Advanced configuration

Request interval Standard (30 seconds) Fast (10 seconds)

Failure threshold

String matching No Yes

Latency graphs

Invert health check status

Disable health check By default, disabled health checks are considered healthy. [Learn more](#)

Health checker regions Customize Use recommended

- US East (N. Virginia)
- US West (N. California)
- US West (Oregon)
- EU (Ireland)
- Asia Pacific (Singapore)
- Asia Pacific (Sydney)
- Asia Pacific (Tokyo)
- South America (São Paulo)

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Asia Pacific (Tokyo)
South America (São Paulo)

URL <http://52.205.149.174:80/index.html> ⓘ

Health check type Basic + additional options: Fast Interval [\(View Pricing\)](#)

* Required

Cancel

Next

Create health check

Step 1: Configure health check

Step 2: Get notified when health check fails

Get notified when health check fails

?

If you want CloudWatch to send you an Amazon SNS notification, such as an email, when the status of the health check changes to unhealthy, create an alarm and specify where to send notifications.

Create alarm Yes No ⓘ

* Required

Cancel

Previous

Create health check

Verify the connectivity status do the below:

The screenshot shows the AWS CloudWatch Health Checks console. At the top, there are buttons for 'Create health check', 'Delete health check', and 'Edit health check'. Below these are two tabs: 'Health checker IP' and 'Health checker'. The 'Health checker' tab is selected. A table displays the status of individual health checks. One row is highlighted with a red box, showing the 'Health checker IP' as 15.177.42.35, 'Last checked' as Aug 25, 2020 4:15:15 PM UTC, and 'Status' as Success: HTTP Status Code 200, OK. Red arrows point from the 'myfailoverhealthcheck' name in the first table to the 'Health checker' tab, and from the highlighted status row to the status column header.

Name	Status	Description	Alarms	ID
myfailoverhealthcheck	Unknown	http://52.205.149.174:80/index.html	No alarms configured.	754

Health checker IP	Last checked	Status
15.177.42.35	Aug 25, 2020 4:15:15 PM UTC	Success: HTTP Status Code 200, OK
15.177.46.35	Aug 25, 2020 4:15:15 PM UTC	Success: HTTP Status Code 200, OK
15.177.50.37	Aug 25, 2020 4:15:15 PM UTC	Success: HTTP Status Code 200, OK
15.177.54.35	Aug 25, 2020 4:15:15 PM UTC	Success: HTTP Status Code 200, OK
15.177.62.35	Aug 25, 2020 4:15:16 PM UTC	Success: HTTP Status Code 200, OK
15.177.58.35	Aug 25, 2020 4:15:16 PM UTC	Success: HTTP Status Code 200, OK

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Creating Route53 failover routing policy:

The screenshot shows the AWS Route53 service dashboard. On the left sidebar, the 'Hosted zones' option is selected and highlighted with a red box. In the main content area, there is a table listing two hosted zones. The first row shows 'shaans.in.' as the domain name, which is also highlighted with a red box. The second row shows 'dvsbatch4.com.'. The table includes columns for Domain Name, Type, Record Set Count, Comment, and Hosted Zone ID.

Domain Name	Type	Record Set Count	Comment	Hosted Zone ID
shaans.in.	Public	5	this is my godaddy domain	Z05990972
dvsbatch4.com.	Private	3	mybatch4	Z09346198

The screenshot shows the 'Create Record Set' page for the 'shaans.in.' domain. The 'Hosted zones' option in the sidebar is selected and highlighted with a red box. The main area displays a table of record sets for the 'shaans.in.' domain. The table has columns for Name, Type, and Value. One record set is highlighted with a red box: 'shaans.in.', Type: NS, Value: ns-1776.awsdns-30.co.uk., ns-528.awsdns-02.net., ns-417.awsdns-52.com., ns-1386.awsdns-45.org.. There are four other record sets listed below it.

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com. (z11 No)
fruits.shaans.in.	A	ALIAS s3-website.ap-south-1.amazonaws.com. (z11 No)
myapp.shaans.in.	A	18.234.169.49
simple.shaans.in.	A	18.210.17.255 54.237.224.62 54.167.179.94

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The screenshot shows the AWS Route 53 'Create Record Set' page. On the left, a sidebar lists various services like Hosted zones, Traffic flow, and Domains. The main area displays a table of existing record sets, including NS and SOA records for domains like shaans.in. A red box highlights the 'Value' column for one of the NS records, which contains the IP address 52.205.149.174. An inset window titled 'Untitled - Notepad' shows two lines of text: 'server1: 52.205.149.174' and 'server2: 18.224.17.120'. The right side of the screen shows the 'Create Record Set' configuration form. It includes fields for Name (set to 'failover shaans.in.'), Type (set to 'A - IPv4 address'), TTL (Seconds) (set to 10), Value (set to '52.205.149.174'), Routing Policy (set to 'Failover'), Failover Record Type (radio button selected for 'Primary'), and Set ID (set to 'failover-Primary'). A red box highlights the 'Set ID' field. A note in the routing policy section states: 'Route 53 responds to queries using primary record sets if any are healthy, or using secondary record sets otherwise. Learn More'.

This screenshot shows the same 'Create Record Set' page as above, but with additional configuration options. The 'Associate with Health Check' section is now visible, containing a radio button for 'Yes' and a dropdown menu for 'Health Check to Associate' (set to 'myfailoverhealthcheck'). A red box highlights the 'Associate with Health Check' section. A large orange arrow points downwards from the top configuration towards this section. The rest of the configuration fields are identical to the first screenshot.

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Record Set Name: failover.shaans.in.

Type: A

Value: 52.205.149.174

Name	Type	Value	Evaluate Target Health	Health Check ID
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.	-	-
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com.	-	-
failover.shaans.in.	A	52.205.149.174	-	754489ca-b18c-4e86-8e44-6
fruits.shaans.in.	A	ALIAS s3-website.ap-south-1.amazonaws.com. (z11)	No	-
myapp.shaans.in.	A	18.234.169.49	-	-
simple.shaans.in.	A	18.210.17.255 54.237.224.62 54.167.179.94	-	-

Record Set Name: failover.shaans.in.

Type: A

Value: 52.205.149.174

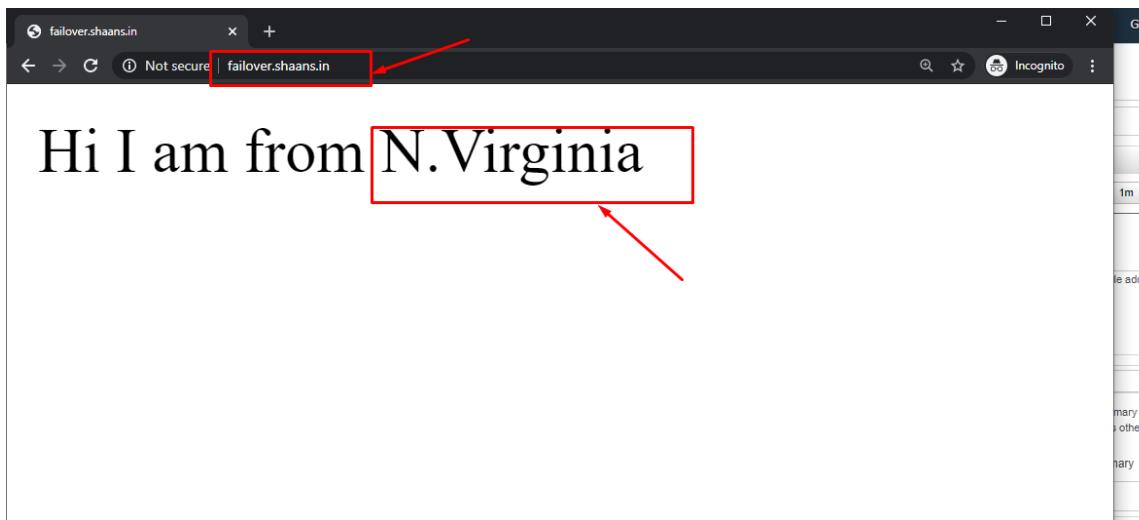
Name	Type	Value	Evaluate Target Health	Health Check ID
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.	-	-
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com.	-	-
failover.shaans.in.	A	52.205.149.174	-	754489ca-b18c-4e86-8e44-6
fruits.shaans.in.	A	ALIAS s3-website.ap-south-1.amazonaws.com. (z11)	No	-
myapp.shaans.in.	A	18.234.169.49	-	-
simple.shaans.in.	A	18.210.17.255 54.237.224.62	-	-

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The screenshot shows the AWS Route 53 service console under the 'Hosted zones' section. A red box highlights the 'Create Record Set' button. The main pane displays a list of existing record sets, including 'shaans.in.' and 'failover.shaans.in.'. A Notepad window titled 'Untitled - Notepad' is open, showing two IP addresses: 'server1: 52.205.149.174' and 'server2: 18.224.17.120'. The configuration pane on the right is used to create a new record set named 'failover | shaans.in.' of type 'A - IPv4 address'. The 'Value' field contains '18.224.17.120'. The 'Routing Policy' is set to 'Failover'. The 'Failover Record Type' is set to 'Secondary'. The 'Set ID' is 'failover-Secondary'. A red box highlights the 'Create' button.

Testing:

DVS Technologies



Let's bring down the server in N.Virginia as below

A screenshot of the AWS EC2 console. The left sidebar shows various services like Volumes, Snapshots, and Network & Security. The main pane shows a table of instances. One instance is selected, named 'nvirgserver', with the status 'stopping' highlighted by a red box. The instance details panel at the bottom shows the instance ID, state, type, and public DNS information.

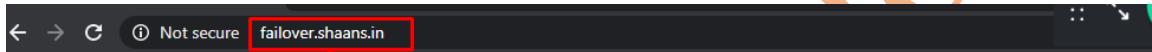
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public
nvirgserver	i-01aab710ce537a238	t2.micro	us-east-1a	stopping	None	None	ec2-52-205-149-174.compute-1.amazonaws.com

Let's monitor the logs from our health check:

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The screenshot shows the AWS Route 53 Health Checks console. On the left sidebar, 'Health checks' is selected. In the main area, a single health check named 'myfailoverhealthcheck' is listed. It is marked as 'Unhealthy' with a status message 'Failure: Connection timed out. The error occurred at the application layer.' and a timestamp '5 minutes ago now'. Below the list, a table shows the results of the health checker across five regions: Asia Pacific (Tokyo), Asia Pacific (Tokyo), Asia Pacific (Singapore), Asia Pacific (Singapore), and Asia Pacific (Sydney). All entries show a failure due to connection timeout.

Health checker region	Health checker IP	Last checked	Status
Asia Pacific (Tokyo)	15.177.42.35	Aug 25, 2020 4:26:38 PM UTC	Failure: Connection timed out. The error occurred at the application layer.
Asia Pacific (Tokyo)	15.177.46.35	Aug 25, 2020 4:26:37 PM UTC	Failure: Connection timed out. The error occurred at the application layer.
Asia Pacific (Singapore)	15.177.50.37	Aug 25, 2020 4:26:44 PM UTC	Failure: Connection timed out. The error occurred at the application layer.
Asia Pacific (Singapore)	15.177.54.35	Aug 25, 2020 4:26:44 PM UTC	Failure: Connection timed out. The error occurred at the application layer.
Asia Pacific (Sydney)	15.177.62.35	Aug 25, 2020 4:26:40 PM UTC	Failure: Connection timed out. The error occurred at the application layer.

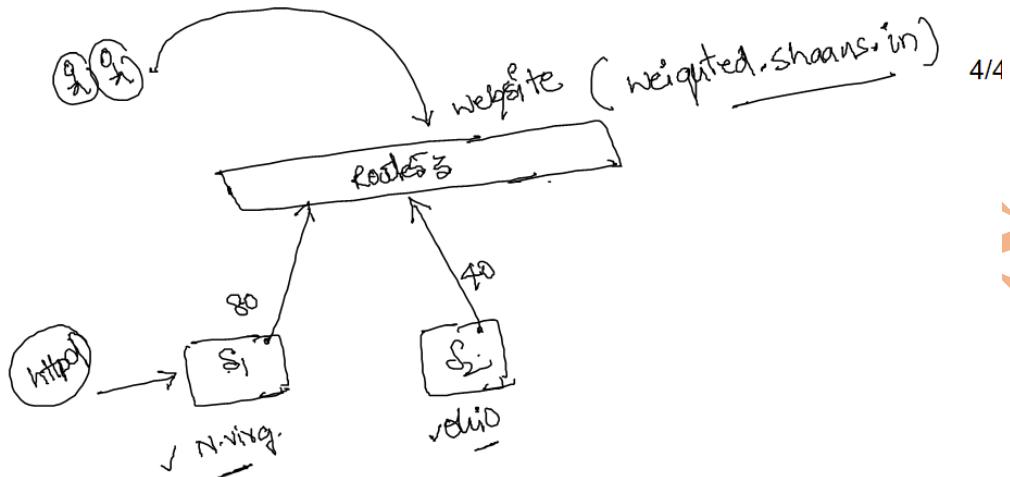


Hi I am from Ohio

Finally my secondary region i.e ohio is responding back to the customer response.

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8. Weighted Routing policy



Step 3: Configure Instance Details

Additional charges apply.

T2/T3 Unlimited Enable Additional charges may apply

File systems Add file system Create new file system

Advanced Details

Metadata accessible: Enabled

Metadata version: V1 and V2 (token optional)

Metadata token response hop limit: 1

User data (As text) As file Input is already base64 encoded

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from N.Virginia" > /var/www/html/index.html
systemctl restart httpd
```

Cancel Previous Review and Launch Next: Add Storage

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Step 6: Configure Security Group
Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security Group ID	Name	Description	Actions
sg-68a47653	default	default VPC security group	Copy to new
sg-0775e7b44bedc9602	launch-wizard-1	launch-wizard-1 created 2020-08-23T07:53:41.517+05:30	Copy to new
sg-01592ae89d3082ed	launch-wizard-2	launch-wizard-2 created 2020-08-24T08:16:57.334+04:00	Copy to new
sg-07e836b03a7715a9b	launch-wizard-3	launch-wizard-3 created 2020-08-25T18:20:20.729+04:00	Copy to new
sg-08e5509c258dc09a2	opentoworld	launch-wizard-1 created 2020-08-07T19:47:10.516+04:00	Copy to new

Inbound rules for sg-08e5509c258dc09a2 (Selected security groups: sg-08e5509c258dc09a2)

Type	Protocol	Port Range	Source	Description
All traffic	All	All	0.0.0.0/0	

[Cancel](#) [Previous](#) **Review and Launch**

EC2 Dashboard [New](#)

Events [New](#)
Tags
Limits

Instances

- Instances**
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts [New](#)
 - Scheduled Instances
 - Capacity Reservations
- Images**
 - AMIs

Launch Instance [Connect](#) [Actions](#)

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public D
NVirgServer	I-0614c0938c884763a	t2.micro	us-east-1a	● running	●	None	ec2-54-8
s3server1	I-00c385ab7eed8399a	t2.micro	us-east-1a	● terminated	●	None	

Instance: I-0614c0938c884763a (NVirg Server) Public DNS: ec2-54-85-151-181.compute-1.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID: I-0614c0938c884763a			
Instance state: running			
Instance type: t2.micro			
Finding: Opt-In to AWS Compute Optimizer for recommendations. Learn more			
Private DNS: ip-172-31-32-226.ec2.internal			
Private IPs: 172.31.32.226			
Secondary private IPs			
IPv4 Public IP: 54.85.151.181			
IPv6 IPs: -			
Elastic IPs			
Availability zone: us-east-1a			
Security groups: opentoworld, view inbound rules , view outbound rules			
Scheduled events: No scheduled events			

OHIO:

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The screenshot shows the AWS EC2 instance creation process at Step 3: Configure Instance Details. The 'User data' field contains the following script:

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from Ohio" > /var/www/html/index.html
systemctl restart httpd
```

Red boxes highlight the 'Ohio' region selection in the top right and the user data input field.

The screenshot shows the AWS EC2 instance creation process at Step 6: Configure Security Group. The 'Selected security groups' dropdown is set to 'opentoworld'. An inbound rule is being configured with 'Type: All traffic', 'Protocol: All', 'Port Range: All', and 'Source: 0.0.0.0/0'. Red boxes highlight the 'opentoworld' security group selection and the 'All traffic' type in the inbound rules table.

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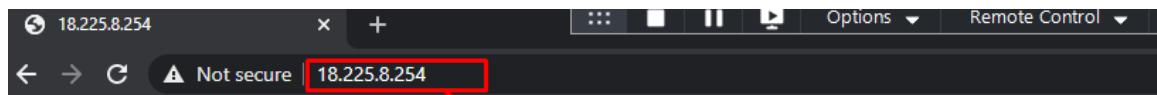
The screenshot shows the AWS EC2 Instances page. A red box highlights the instance name 'OhioServer'. Another red box highlights the 'running' status under the instance details. A third red box highlights the 'IPv4 Public IP' field, which contains '18.225.8.254'. The interface includes a search bar at the top and a table of instances with columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public.

Test the server configuration:

The screenshot shows a web browser window with the URL '54.85.151.181'. A red box highlights the URL bar. The browser interface includes standard navigation buttons (back, forward, refresh) and a status bar indicating 'Not secure'.

Hi I am from **N.Virginia**

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Creating record sets in Route53::

A screenshot of the AWS Route53 console. The sidebar on the left shows various options: Dashboard, Hosted zones (highlighted with a red box), Health checks, Traffic flow, Traffic policies, Policy records, Domains, Registered domains, Pending requests, Resolver, VPCs, Inbound endpoints, Outbound endpoints, and Rules. The main area shows a table of hosted zones:

Domain Name	Type	Record Set Count	Comment	Hosted Zone ID
shaans.in.	Public	7	this is my godaddy domain	Z05990972G95L
dvsbatch4.com.	Private	3	mybatch4	Z09346198BCTE

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The screenshot shows the AWS Route 53 service dashboard under the 'Hosted zones' section. The 'Create Record Set' button is highlighted with a red arrow. The table below lists record sets for the domain 'shaans.in.'

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-62.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com.
failover.shaans.in.	A	52.205.149.174
failover.shaans.in.	A	18.224.17.120
fruits.shaans.in.	A	ALIAS s3-website.ap-south-1.amazonaws.com. (z11 No)
myapp.shaans.in.	A	18.234.169.49
		18.210.17.255
simple.shaans.in.	A	54.237.224.62 54.167.179.94

The screenshot shows the 'Create Record Set' page for a weighted record set. The 'Name' field is set to 'weighted shaans.in.' and the 'Type' is 'A - IPv4 address'. The 'TTL (Seconds)' is set to 10. The 'value' field contains '54.85.151.181'. The 'Routing Policy' is 'Weighted' with a weight of 80. The 'Set ID' is 'NvirgServer'. The 'Create' button is visible at the bottom right.

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Record Set Name: weighted.shaans.in.

Type: A

Value: 54.85.151.181

Create Record Set

Name: weighted

Type: A - IP

Alias: Yes

TTL (Seconds): 54.85

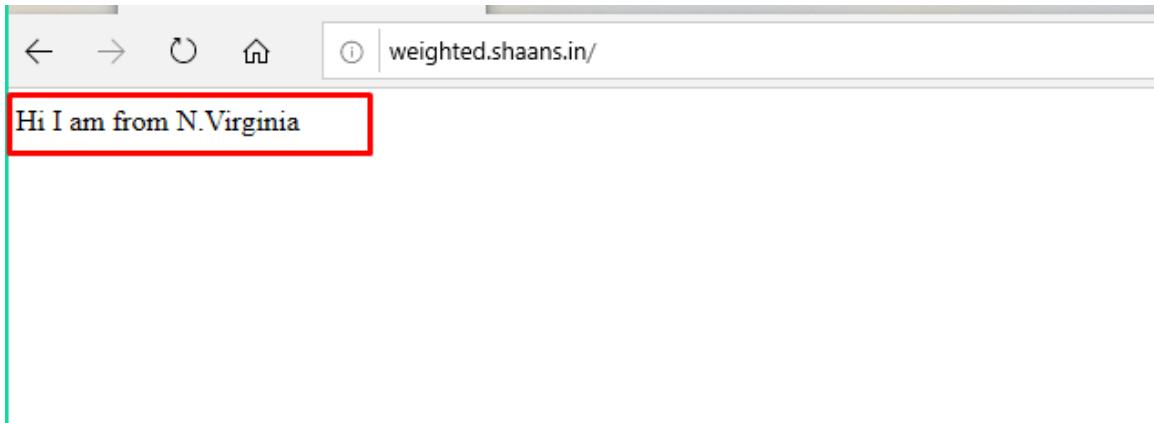
Routing Policy: Weighted

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The screenshot shows the AWS Route 53 'Create Record Set' interface. A red box highlights the 'Name' field containing 'weighted.shaans.in.'. Another red box highlights the 'TTL (Seconds)' field set to '10'. A third red box highlights the 'Value' field containing '18.225.8.254'. A fourth red box highlights the 'Weight' field set to '40'. A fifth red box highlights the 'Set ID' field containing 'ohioserver'. A large orange arrow points from the bottom left towards the 'Create' button.

The screenshot shows the AWS Route 53 'Hosted Zones' table. A red box highlights the 'weighted.shaans.in.' record set, which has a Type of 'A' and a Value of '54.85.151.181'. Another red box highlights the 'weighted.shaans.in.' record set, which has a Type of 'A' and a Value of '18.225.8.254'. A large orange arrow points from the bottom left towards the highlighted record sets.

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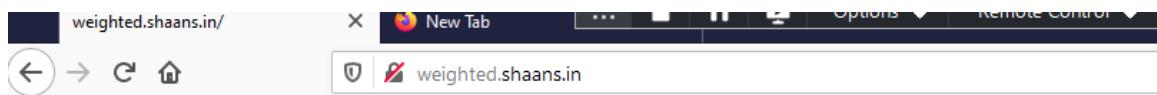
Lets change the weight value for the site "weighted.shaans.in"

A screenshot of the AWS Route 53 console. The left sidebar shows "Hosted Zones" and "weighted.shaans.in". The main pane shows a table of record sets. A row for "weighted.shaans.in." with Type "A" and Value "18.225.8.254" is selected and highlighted with a red box. To the right, a detailed configuration panel is open:

- TTL (Seconds):** 10, 1m, 5m, 1h, 1d
- Value:** 18.225.8.254
- Routing Policy:** Weighted
- Weight:** 120 (highlighted with a red box)
- Set ID:** ohioserver
- Associate with Health Check:** No (radio button selected)

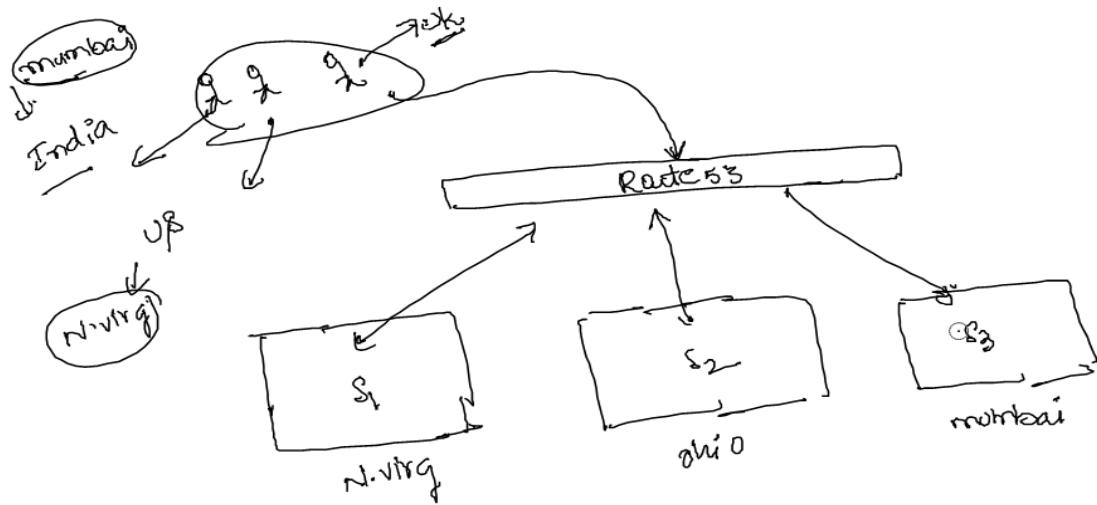
A blue "Save Record Set" button is at the bottom right of the panel. Red arrows point from the text "lets change the weight value" to the "Weight" field and from the "Weight" field to the "Save Record Set" button.

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Hi I am from Ohio

9. Latency Routing Policy



<https://cloudpingtest.com/aws>

Create three server in N.virg,Ohio,Mumbai and make sure that you are having httpd configured as below.

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N.Virginia Server ::

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from N.Virginia" > /var/www/html/index.html
systemctl restart httpd
```

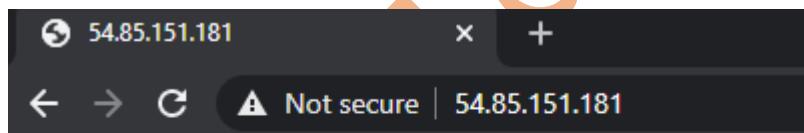
Ohio Server :

```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from Ohio" > /var/www/html/index.html
systemctl restart httpd
```

London Server : OR (Mumbai Server My Case :)

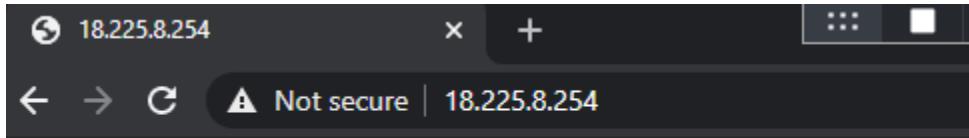
```
#!/bin/bash
yum install httpd -y
systemctl enable httpd
echo "Hi I am from Mumbai" > /var/www/html/index.html
systemctl restart httpd
```

Once you are done with above test the server configuration :

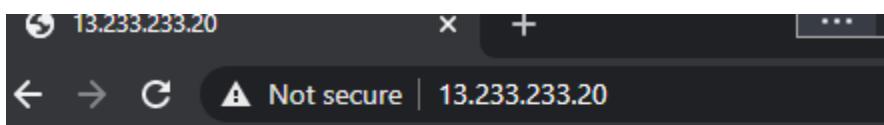


Hi I am from N.Virginia

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Hi I am from Ohio



Hi I am from Mumbai

Configure our Routing Policies:

The screenshot shows the AWS Route 53 service console. On the left, there's a sidebar with navigation links like Dashboard, Hosted zones, Health checks, Traffic flow, Traffic policies, Policy records, Domains, Registered domains, Pending requests, Resolver, VPCs, Inbound endpoints, Outbound endpoints, and Rules. The 'Hosted zones' link is currently selected. The main pane shows a table of record sets for the zone 'shaans.in.'. The table has columns for Name, Type, and Value. There are two entries: one for NS type pointing to four IP addresses (ns-1776.awsdns-30.co.uk, ns-528.awsdns-02.net, ns-417.awsdns-52.com, ns-1386.awsdns-45.org) and one for SOA type pointing to 'ns-1776.awsdns-30.co.uk awsdns-hostmaster.amazon.com'. At the top of the main pane, there are buttons for 'Back to Hosted Zones', 'Create Record Set' (which is highlighted with a red arrow), 'Import Zone File', 'Delete Record Set', and 'Test Record Set'. A note on the right says: 'To get started, click Create Record Set button or click on existing record set.'

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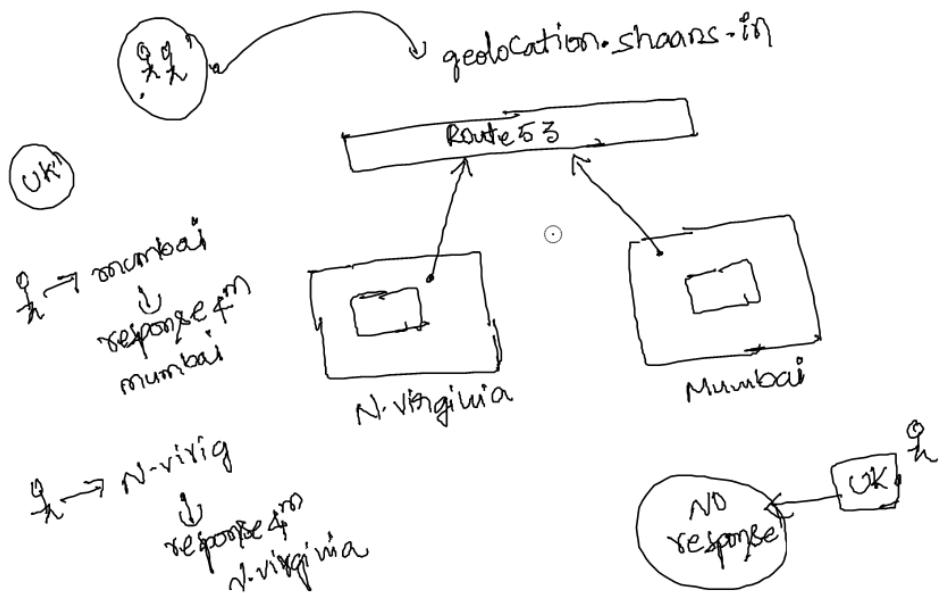
The screenshot shows the AWS Route 53 console under the Services menu. The left sidebar lists various options like Dashboard, Hosted zones, Domains, and Rules. The main area shows a list of record sets, with one named 'latency shaans.in.' selected. A modal window titled 'Create Record Set' is open, showing the configuration for this record set. The 'Name' field is 'latency shaans.in.', 'Type' is 'A - IPv4 address', 'TTL (Seconds)' is 10, 'Value' is '54.85.151.181', 'Routing Policy' is 'Latency', 'Region' is 'us-east-1', and 'Set ID' is 'nvirginiaserver'. Red arrows point to the 'Name' field, 'Value' field, 'Region' dropdown, and the 'Create' button.

This screenshot shows the same AWS Route 53 interface after creating the first record set. The list now includes two entries: 'shaans.in.' (NS type) and 'latency shaans.in.' (A type). The 'latency shaans.in.' entry has a TTL of 10 seconds and a value of '54.85.151.181'. A second modal window is open for creating another record set, identical to the first, with the same parameters. Red arrows point to the 'Name' field, 'Value' field, 'Region' dropdown, and the 'Create' button.

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The screenshot shows the AWS Route 53 service in the AWS Management Console. On the left, there's a navigation pane with various options like Dashboard, Hosted zones, Traffic flow, etc. The main area shows a list of existing record sets. A modal window is open for creating a new record set. The 'Name' field contains 'latency shaans.in', 'Type' is set to 'A - IPv4 address', and the 'Value' field contains '13.233.233.20'. The 'TTL (Seconds)' is set to 10. Under 'Routing Policy', 'Latency' is selected. In the 'Region' dropdown, 'ap-south-1' is chosen, and the 'Set ID' is 'mumbai'. A red arrow points from the 'Value' field to the 'Create' button.

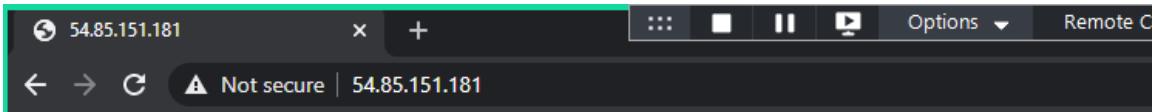
10. Geo Location Routing Policy



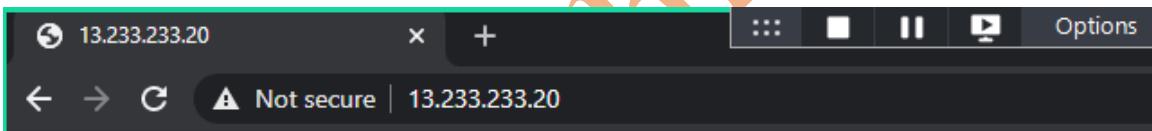
Make sure that you are having two servers from diff regions
i.e, N.virginia, Mumbai

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Testing server configuration:



Hi I am from N.Virginia



Hi I am from Mumbai

Route53 Configuration:

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The screenshot shows the AWS Route 53 Hosted Zones interface. On the left, there's a sidebar with various services like Dashboard, Hosted zones, Traffic flow, Domains, and Resolver. The main area shows a list of record sets for the domain shaans.in. There are two NS records and one SOA record listed under the 'Value' column. A red arrow points to the 'Create Record Set' button at the top.

This screenshot shows the same AWS Route 53 interface, but with a modal window open for creating a new record set. The 'Name' field is set to 'geolocation.shaans.in.', 'Type' is selected as 'A - IPv4 address', and the 'Value' field contains '54.85.151.181'. The 'Routing Policy' is set to 'Geolocation'. Under 'Location', 'North America' is selected. The 'Set ID' field contains 'nvirginia'. A large orange arrow points from the bottom-left towards this modal window.

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aws Services Resource Groups S3 EC2 Dashboard Hosted zones Health checks Traffic flow Traffic policies Policy records Domains Registered domains Pending requests Resolver VPCs Inbound endpoints Outbound endpoints Rules Use the new console

Back to Hosted Zones Create Record Set Import Zone File Delete Record Set Test Record Set

Record Set Name X Any Type Aliases Only Weighted Only

Displaying 1 to 3 out of 3 Record Sets

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com.
geolocation.shaans.in.	A	54.85.151.181

To get started, click Create Record Set button or click an existing record set.

Services Resource Groups S3 EC2 Back to Hosted Zones Create Record Set Import Zone File Delete Record Set Test Record Set

Record Set Name X Any Type Aliases Only Weighted Only

Name: geolocation.shaans.in.

Type: A – IPv4 address

Alias: No

TTL (Seconds): 10 1m 5m 1h 1d

Value: 13.233.233.20
IPv4 address. Enter multiple addresses on separate lines.
Example:
192.0.2.235
198.51.100.234

Routing Policy: Geolocation

Route 53 responds to queries based on the locations from which DNS queries originate. We recommend that you create a Default location resource record set. Learn More

Location: India

Set ID: mumbai

Create

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The screenshot shows the AWS Route 53 service interface. On the left, a sidebar lists various services: Dashboard, Hosted zones (selected), Health checks, Traffic flow, Traffic policies, Policy records, Domains, Registered domains, Pending requests, Resolver, VPCs, Inbound endpoints, Outbound endpoints, and Rules. The main area displays a table of record sets for the domain 'shaans.in'. The table has columns for Name, Type, and Value. There are four entries:

Name	Type	Value
shaans.in.	NS	ns-1776.awsdns-30.co.uk. ns-528.awsdns-02.net. ns-417.awsdns-52.com. ns-1386.awsdns-45.org.
shaans.in.	SOA	ns-1776.awsdns-30.co.uk. awsdns-hostmaster.amazon.com.
geolocation.shaans.in.	A	13.233.233.20
geolocation.shaans.in.	A	54.85.151.181

A red box highlights the last row, and a red arrow points to the 'geolocation.shaans.in.' entry with IP 54.85.151.181. The 'Evaluate Target Health' column is visible but contains no data for these specific entries.

If you are in Mumbai region you will get response from mumbai & if you are in n.virginia region you will get the response from n.virginia region. But if you are from other part of the world you will not get any response.

Currently I am in different location hence I am not getting any webpage.

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← → ⌂ ⓘ geolocation.shaans.in



This site can't be reached

geolocation.shaans.in's server IP address could not be found.

DNS_PROBE_FINISHED_NXDOMAIN



[Reload](#)

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