Domain Name System Cloud Service

DNS Cloud Service —Amazon Route 53

- •Domain Name System: translational tool
- •Domain –distinct group of networked resources- jiit.ac.in
- •Browser->URL->DNS Server
- •Local DNS->ISP DNS and Public DNS
- •Amazon Route 53 Cloud Service- register and associate name (cost attached)

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Server Migration Service AWS Amplify

AWS Transfer for SETP

AWS Transfer for SFTP

MediaConnect

MediaConvert

Mobile Hub

AWS AppSync MediaLive

DataSync Device Farm MediaPackage

MediaStore

Networking & Content Delivery MediaTailor AR & VR

VPC Elemental Appliances & Software Amazon Sumerian

CloudFront

Route 53

API Gateway

Machine Learning

Application Integration

Direct Connect Amazon SageMaker Step Functions

AWS App Mesh Amazon CodeGuru Amazon EventBridge

AWS Cloud Map Amazon Comprehend Amazon MQ

Amazon Fraud Detector Simple Queue Service

Domain Registration (10-15 \$/yr), DNS management, Traffic Management and Availability monitoring



Amazon Route 53

You can use Amazon Route 53 to register new domains, transfer existing domains, route traffic for your domains to your AWS and external resources, and monitor the health of your resources.



DNS management

ady have a domain name, such as om, Route 53 can tell the Domain Name NS) where on the Internet to find web ail servers, and other resources for your



Traffic management

Route 53 traffic flow provides a visual tool that you can use to create and update sophisticated routing policies to route end users to multiple endpoints for your application.

Learn More



Availability monitoring

Route 53 can monitor the health and performance of your application as well as your web servers and other resources. Route 53 can also redirect traffic to healthy resources.

Learn More



Domain registration

If you need a domain name, you can find an available name and register it by using Route 53. You can also make Route 53 the registrar for existing domains that you registered with other registrars.

Learn More

Get started now

Get started now

Get started now

Get started now

Dashboard

Hosted zones

Health checks

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Pending requests

Resolver

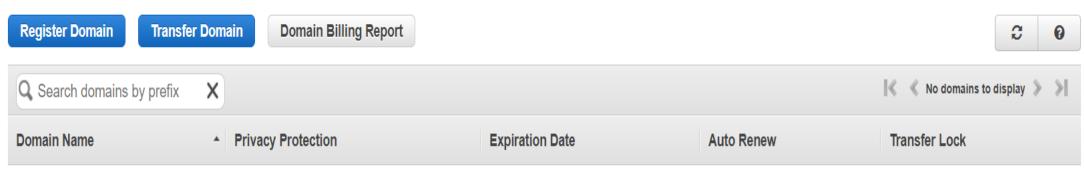
VPCs

Inbound endpoints

Outbound endpoints

Rules

Registered domains



No domains to display

Can be used for other Route 53 services for the domains registered from other service providers



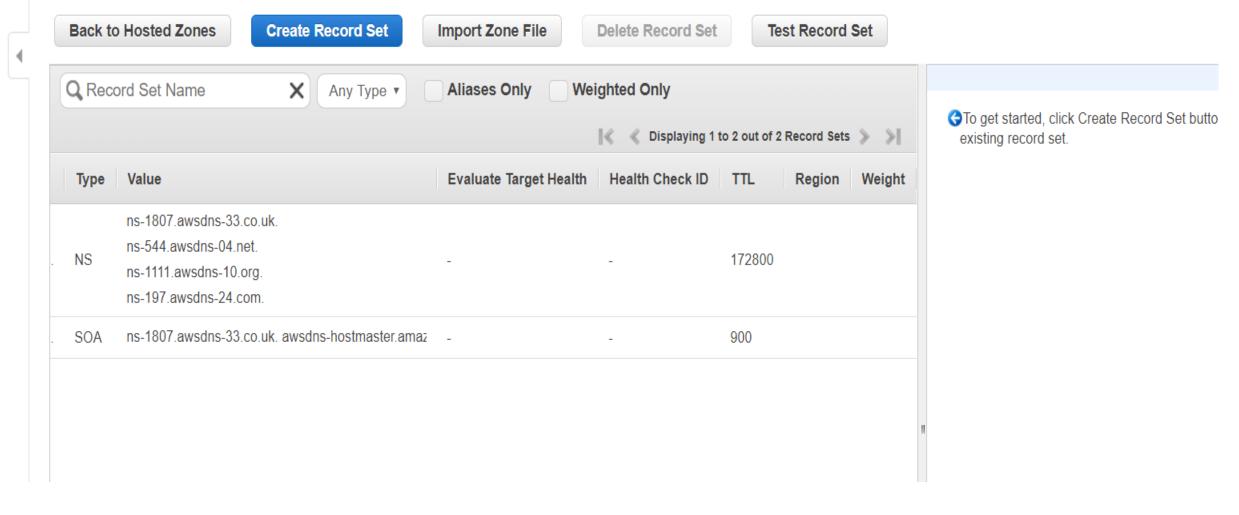


Amazon Route 53 is an authoritative Domain Name System (DNS) service. DNS is the system that translates human-readable domain names (example.com) into IP addresses (192.0.2.0). With authoritative name servers in data centers all over the world, Route 53 is reliable, scalable, and fast.

If you already have a domain name, such as example.com, Route 53 can tell the Domain Name System (DNS) where on the Internet to find web servers, mail servers, and other resources for your domain.

Learn More

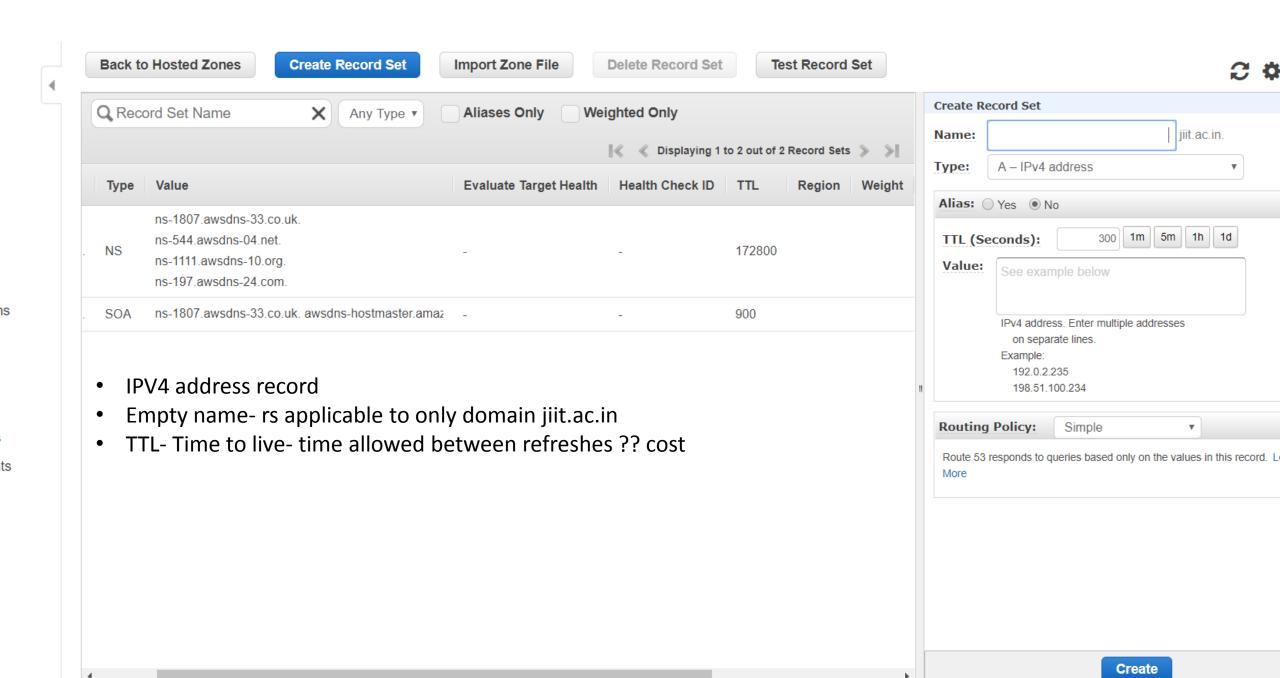
Create Hosted Zone

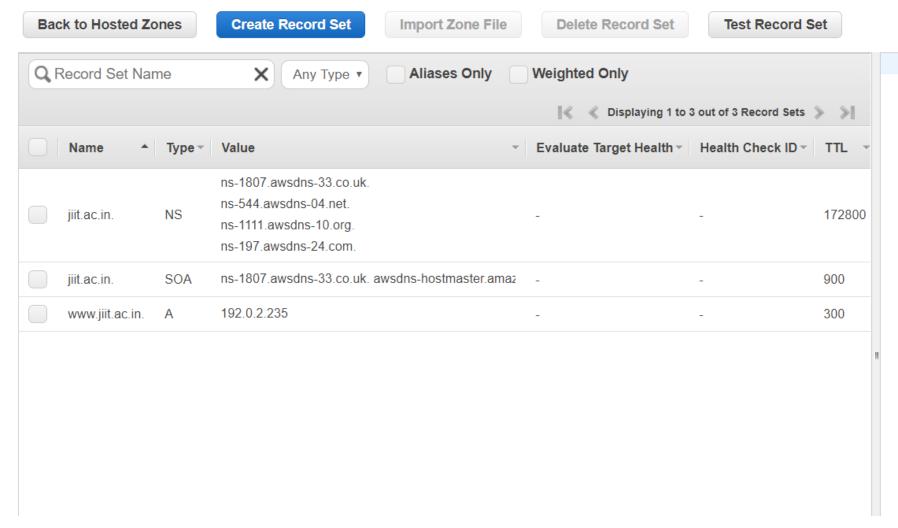


Hosted Zones-to define how to manage traffic aimed at your domain (\$0.50 every month)

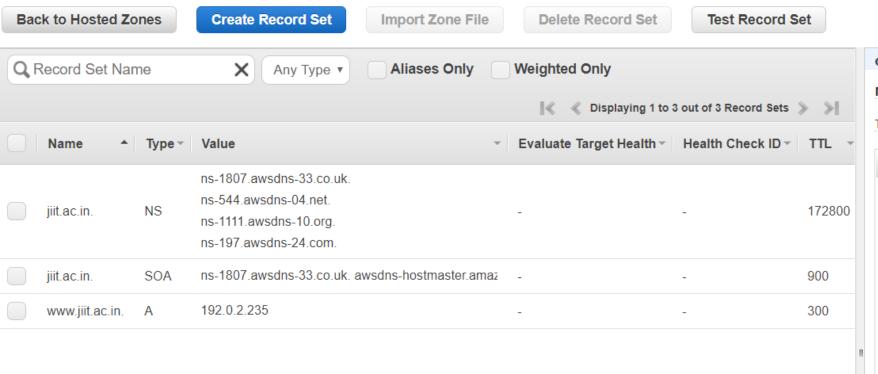
Record set-define aspect of domain behaviour

- SOA- start of authority domain basic configuration
- NS- List of authoritative name servers

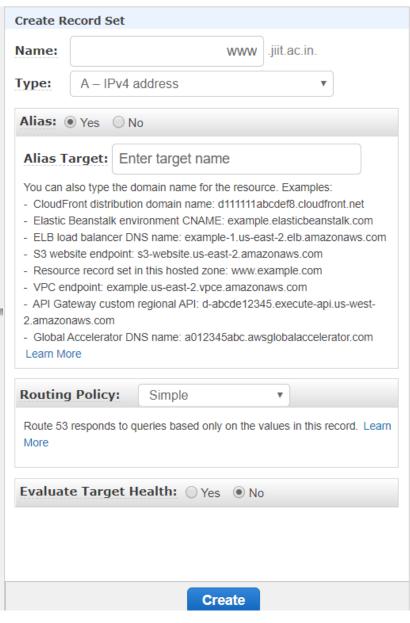


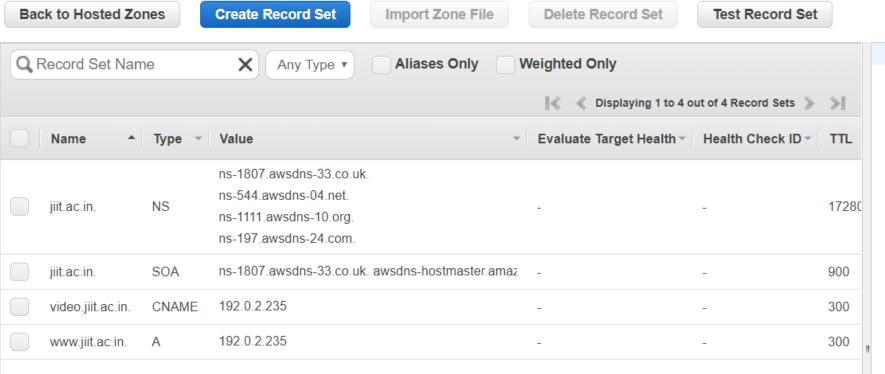


♦ To get started, click Create Record Set button or click an existing record set.



• www – treated as separate sub domain

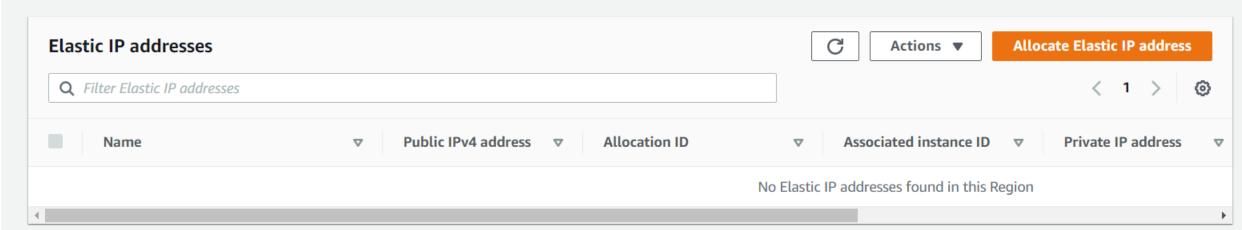




To get started, click Create Record Set button or click an existing record set.

- Canonical record- one domain name to act as alias for second
- Number of domains leads to a single website





EC2 > Elastic IP addresses > Allocate Elastic IP address

Allocate Elastic IP address

Allocate an Elastic IP address by selecting the public IPv4 address pool from which the public IP address is to be allocated. Elastic IP addresses incur charges if they are not associated with a running instance or a network interface that is attached to a running instance. Learn more

Elastic IP address settings

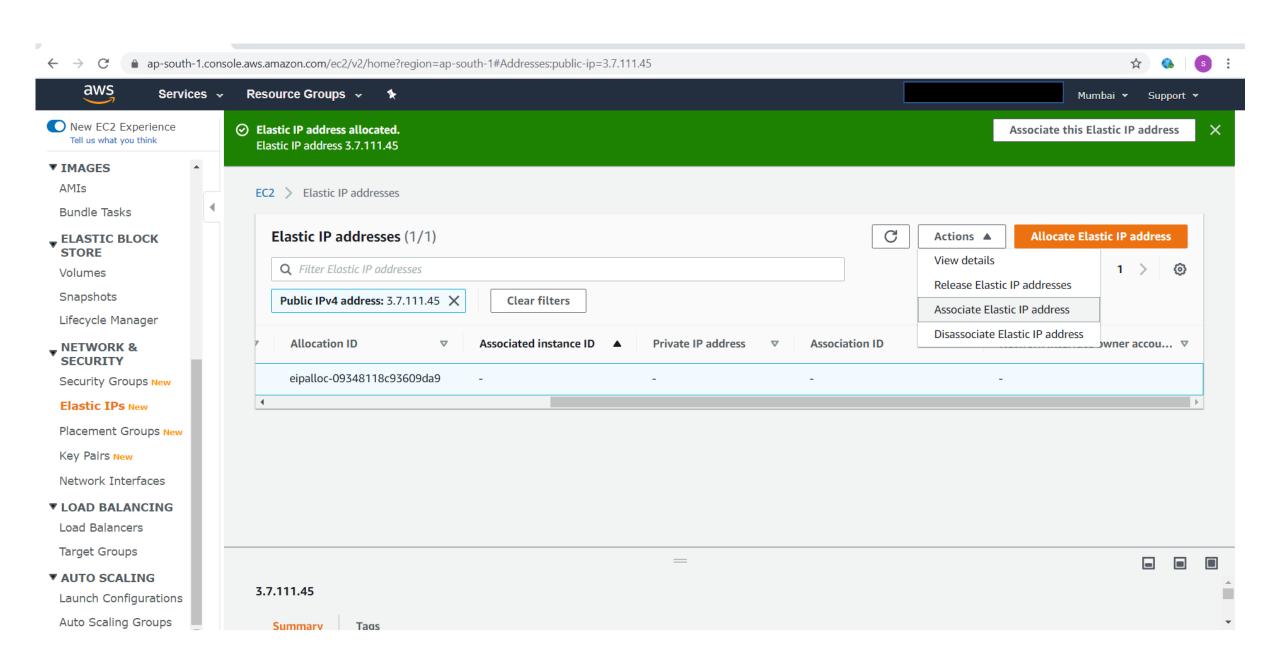
Public IPv4 address pool

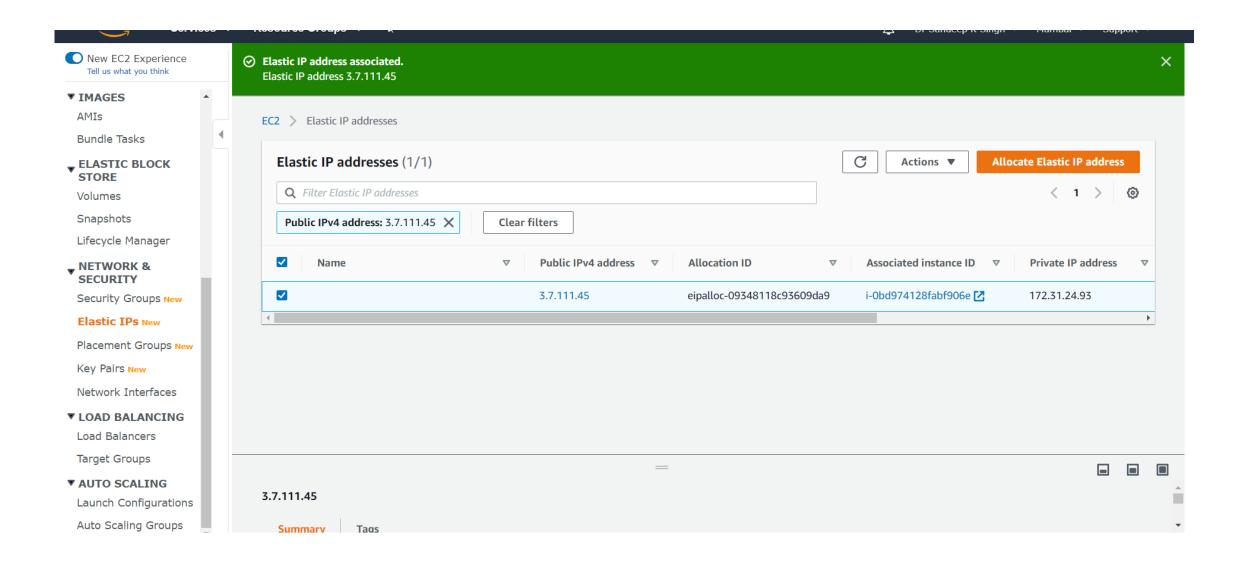
Public IP addresses are allocated from Amazon's pool of public IP addresses, from a pool that you own and bring to your account, or from a pool that you own and continue to advertise..

- Amazon's pool of IPv4 addresses
- Public IPv4 address that you bring to your AWS account(option disabled because no pools found) Learn more

Cancel

Allocate





Spend Summary

Cost Explorer

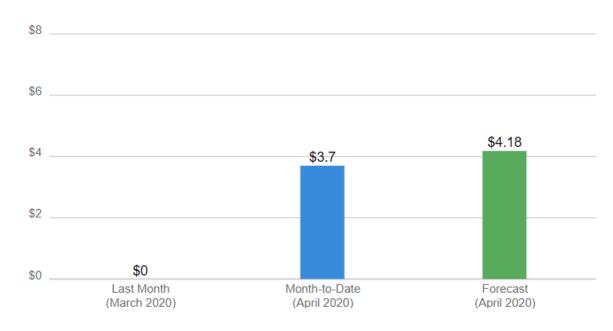
Welcome to the AWS Billing & Cost Management console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for April 2020, the exchange rate for the Payment Currency is estimated.

3.70 USD which converts to

287.13 INR

at today's exchange rate of 77.602138



Month-to-Date Spend by Service

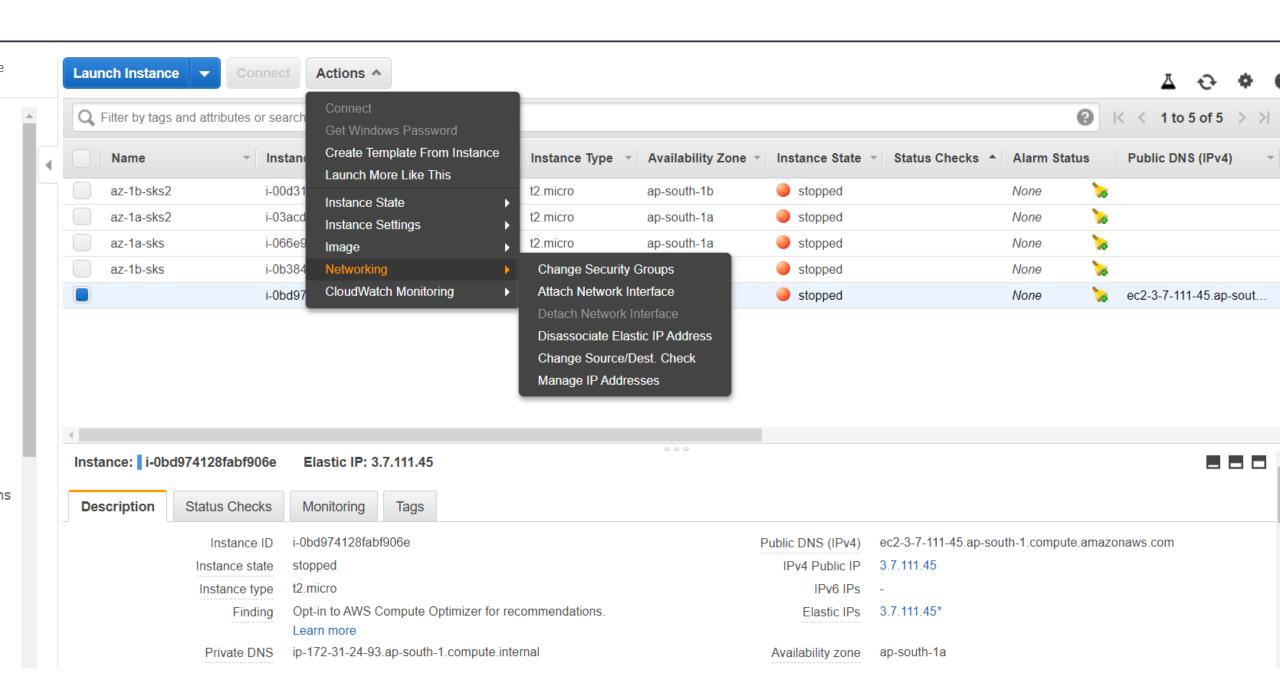
Bill Details

The chart below shows the proportion of costs spent for each service you use.



EC2	\$2.31
Route53	\$0.50
RDS	\$0.32
Budgets	\$0.00
Other Services	\$0.00
Tax	\$0.57
Total	\$3.70

▶ Important Information about these Costs



Routing Policies- Multiple Servers Use Case

- Two servers- same content different capacities
- Rules for load sharing, disaster management- health checks and RP
- Simple RP- single server based
- Weighted RP- direct higher or lower loads
- Latency RP- to direct to server with low latency
- Failover RP- redirect traffic to backup server
- Geolocation RP- AZ close to the user

