

Experiment 9

Configure Failover Routing with Amazon Route 53

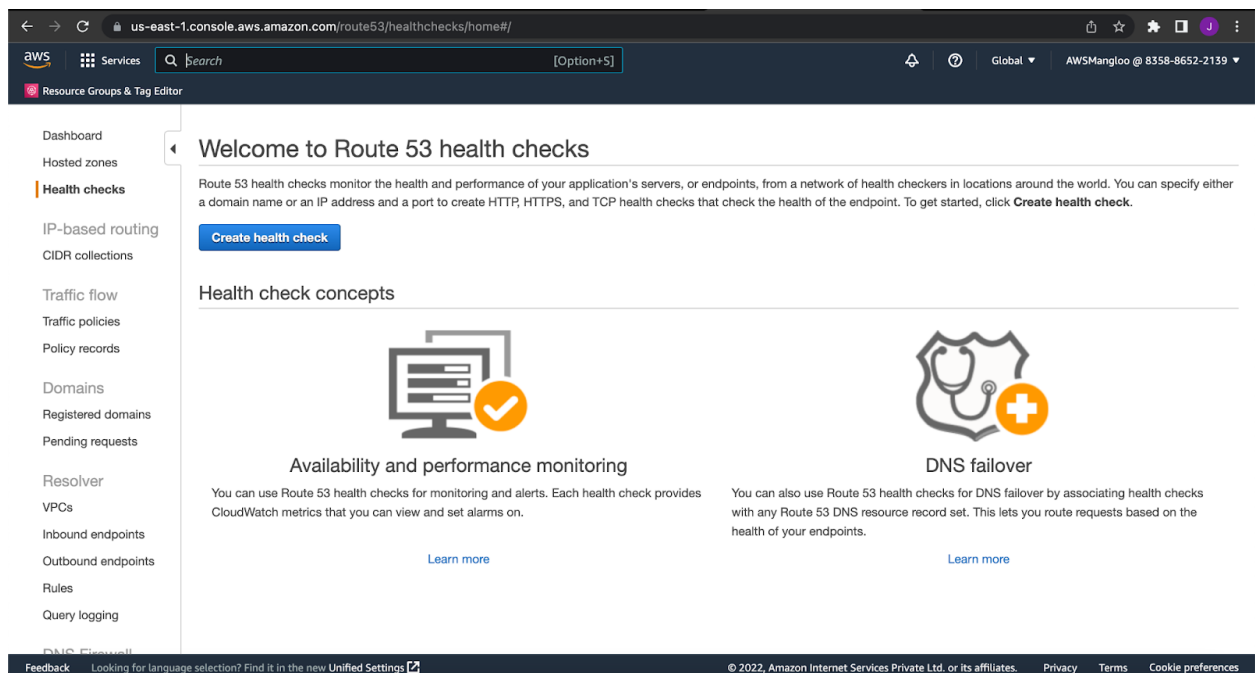
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Aim: To configure failover routing with AWS Route 53

Procedure :

- 1) Go to Hosted zones.
- 2) Go to health checks and create health check



3) If your health check fails then you can set notification and click on create health check

The screenshot shows the 'Configure health check' page in the AWS Management Console. The page is titled 'Configure health check' and includes a sidebar with navigation links. The main content area is divided into two sections: 'Step 1: Configure health check' and 'Step 2: Get notified when health check fails'. The 'Step 1' section contains a form for configuring the health check. The form includes a 'Name' field with the value 'example name', a 'What to monitor' section with radio buttons for 'Endpoint' (selected), 'Status of other health checks (calculated health check)', and 'State of CloudWatch alarm'. Below this is a 'Monitor an endpoint' section with a description: 'Multiple Route 53 health checkers will try to establish a TCP connection with the following resource to determine whether it's healthy.' The 'Specify endpoint by' section has radio buttons for 'IP address' (selected) and 'Domain name'. The 'Protocol' is set to 'HTTP'. The 'IP address' field contains '192.0.2.44 or 2001:DB8::1'. The 'Host name' field contains 'www.example.com'. The 'Port' field contains '80'. The 'Path' field contains '/images'. There is an 'Advanced configuration' link at the bottom of the form.

us-east-1.console.aws.amazon.com/route53/healthchecks/home#/create

aws Services Search [Option+S]

Resource Groups & Tag Editor

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

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

IP address *

Host name

Port *

Path

Advanced configuration

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4) Health check is created and status is unknown and soon it will turn healthy because it is healthy

The screenshot shows the 'Health checks' page in the AWS Management Console. The page has a sidebar with navigation links. The main content area shows a success message: 'Health check with id 9459b641-1d77-4853-b12e-6d9bd9d0d6b3 has been created successfully'. Below this is a table of health checks. The table has columns: Name, Status, Description, and Alarms. There is one health check listed: 'prodhc' with status 'Unknown' and description 'http://mumbaiELB-25996257.ap-south-1...'. The 'Alarms' column shows '1 of 1 in INSUFFICIENT'. Below the table are tabs for 'Info', 'Monitoring', 'Alarms', 'Tags', 'Health checkers', and 'Latency'. The 'Info' tab is selected, showing 'No health check selected.'.

Dashboard

Hosted zones

Health checks

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Pending requests

Resolver

VPCs

Inbound endpoints

Outbound endpoints

Rules

Create health check Delete health check Edit health check

Filter by keyword

Name	Status	Description	Alarms
prodhc	Unknown	http://mumbaiELB-25996257.ap-south-1...	1 of 1 in INSUFFICIENT

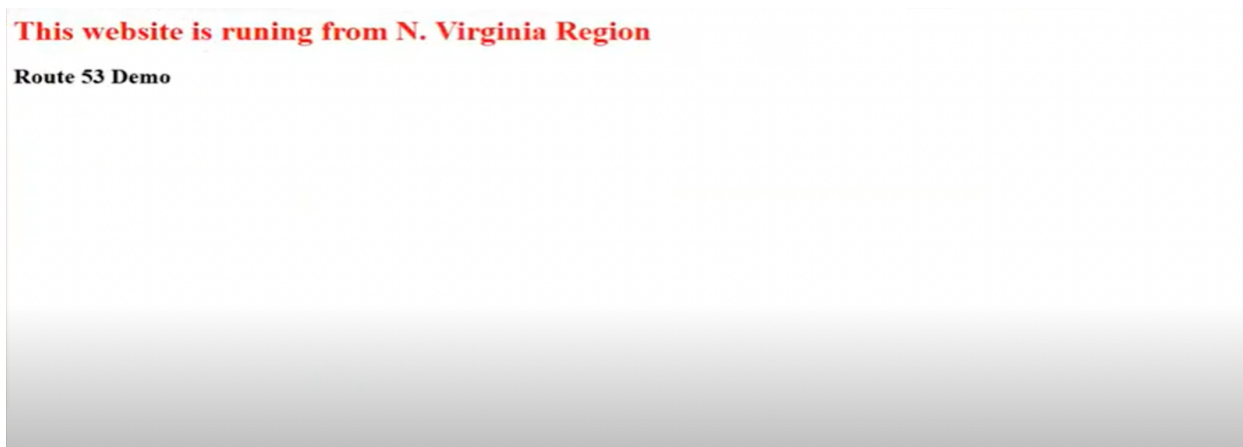
Info Monitoring Alarms Tags Health checkers Latency

No health check selected.

No health check selected.

5) In the hosted zones, create a record set and give the required information with routing policy as failover and click on create.

6) Repeat the same steps for the secondary set ID.



When the load on primary set ID increases it routes the traffic to secondary set ID.

Result : Hence we configured failover routing with AWS Route 53