

Experiment: 9

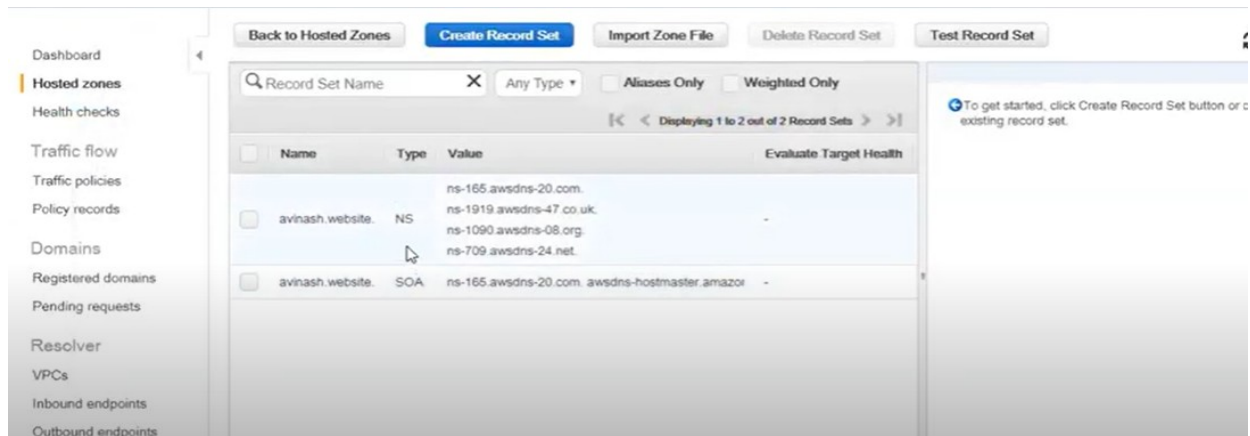
Title: Configure Failover Routing with Amazon Route 53

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1. Login to your AWS account

2. Go to Hosted zones.



3. Go to health checks and create health check

The screenshot shows the AWS Route 53 Health Checks console. On the left is a navigation sidebar with links to Dashboard, Hosted zones, Health checks (highlighted), Traffic flow, Traffic policies, Policy records, Domains, Registered domains, Pending requests, and Resolver. The main content area is titled 'Welcome to Route 53 health checks'. It contains a paragraph explaining that Route 53 health checks monitor the health and performance of application servers or endpoints from a global network of health checkers. Below this text is a blue button labeled 'Create health check'. Further down, under the heading 'Health check concepts', there are two icons: one of a server with a checkmark labeled 'Availability and performance monitoring', and another of a shield with a stethoscope and a plus sign labeled 'DNS failover'.

4. Give the required details.

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

outage occurs.

Name

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

Monitor an endpoint

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Specify endpoint by ☐ IP address ☒ Domain name

Protocol

Domain name *

Port *

Path

► Advanced configuration

Give the endpoint of which you want to monitor.

5.

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Specify endpoint by ☐ IP address ☒ Domain name

Protocol

Domain name *

Port *

Path

Advanced configuration

URL <http://mumbaiELB-25996257.ap-south-1.elb.amazonaws.com:80/>

Health check type Basic - no additional options selected ([View Pricing](#))

Copy paste the URL in a new tab to check if it is healthy.

6.

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

CloudWatch sends you an Amazon SNS notification whenever the status of this health check is unhealthy for one minute.

Send notification to ☒ Existing SNS topic ☐ New SNS topic

* Required

[Cancel](#) [Previous](#) [Create health check](#)

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

7.

Dashboard

Hosted zones

Health checks

Traffic flow

Traffic policies

Policy records

Domains

Registered domains

Pending requests

Resolver

VPCs

Inbound endpoints

Outbound endpoints

Rules

Health check with id 9459b641-1d77-4853-b12e-6d9bd9d0d6b3 has been created successfully

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

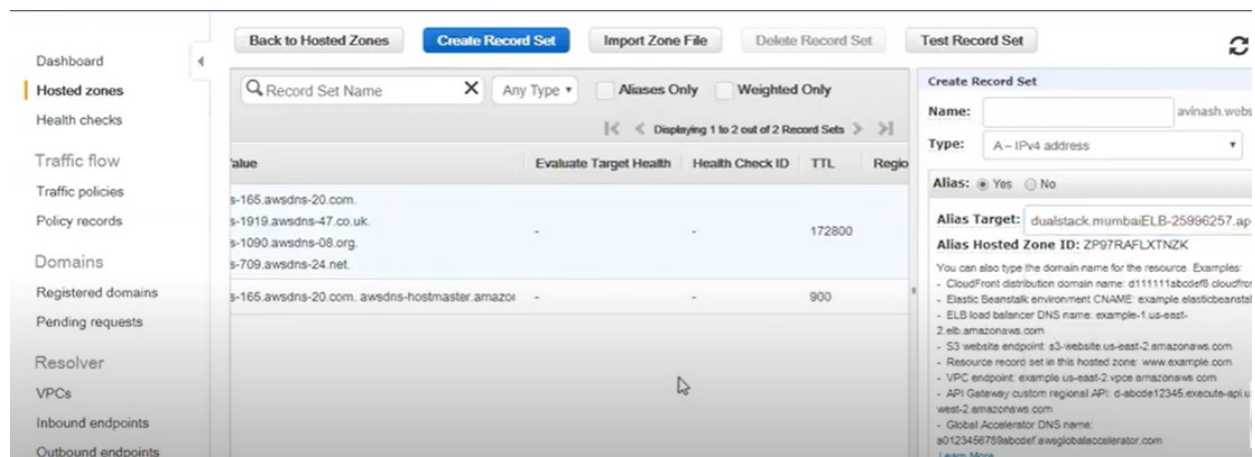
Info Monitoring Alarms Tags Health checkers Latency

No health check selected.

No health check selected.

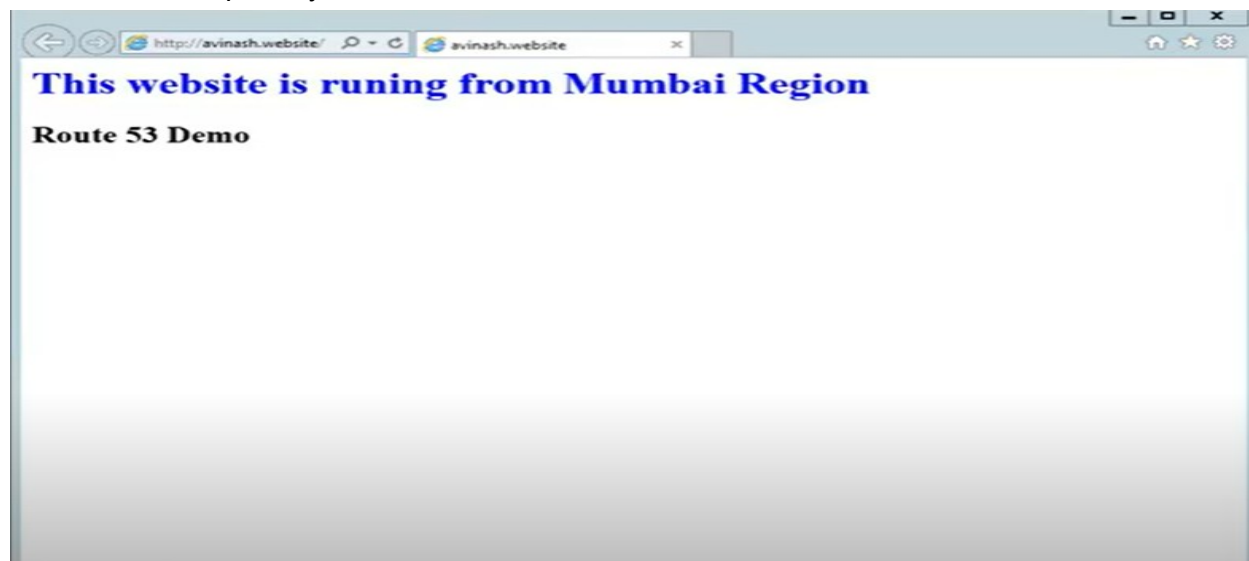
Health check is created and status is unknown and soon it will turn healthy because it is healthy

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



9.
Repeat the same steps for the secondary set ID.

10. As it is set as primary set ID.



11.

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

