

EXPERIMENT-9

Configure Failover Routing with Amazon Route 53

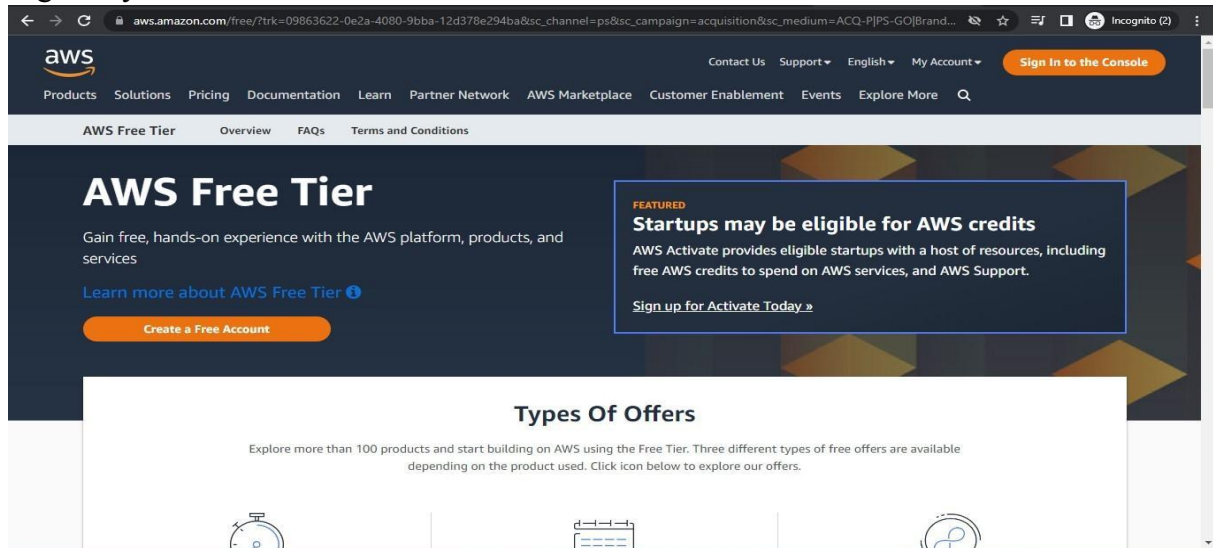
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PROCEDURE:

https://aws.amazon.com/free/?trk=09863622-0e2a-4080-9bba-12d378e294ba&sc_channel=ps&sc_campaign=acquisition&sc_medium=ACQ-P|PS-GO|Brand|Desktop|SU|AWS|Core|IN|EN|Text&s_kwcid=AL!4422!3!453325185010!e!!g!!aws%20free&ef_id=Cj0KCOjw_7KXBhCoARIsAPdPTfij_nDXTj072T5S-Pc3j6qaBSDqVs-6FJI1WtuV8Eo3mdZUwcv5_8aArdoEALw_wcB:G:s&s_kwcid=AL!4422!3!453325185010!e!!g!!aws%20free&all-free-tier.sort-by=item.additionalFields.SortRank&all-free-tier.sort-order=asc&a_wsf.Free%20Tier%20Types=*all&awsf.Free%20Tier%20Categories=*all

1.Login to your AWS account



2. Go to Hosted zones.

The screenshot shows the AWS Route 53 console. On the left is a navigation sidebar with options: Dashboard, Hosted zones (highlighted), Health checks, IP-based routing (with CIDR collections), Traffic flow (with Traffic policies and Policy records), Domains (with Registered domains and Pending requests), and Resolver (with VPCs). The main content area has a blue header with a message: "Introducing the new Route 53 console. We've redesigned the Route 53 console to make it easier to use. Let us know what you think. We are continuing to make improvements to the user interface. Stay tuned! If you'd prefer to use the old console, click here." Below this is a breadcrumb "Route 53 > Hosted zones". The main section is titled "Hosted zones (0)" and includes a note: "Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings." There are buttons for "Refresh", "View details", "Edit", "Delete", and a prominent orange "Create hosted zone" button. A search bar is present with the placeholder "Filter hosted zones by property or value". Below the search bar is a table header with columns: Domain name, Type, Created by, Record count, and Description. The table is currently empty, displaying the message "No hosted zones. There are no hosted zones created for this account." and another orange "Create hosted zone" button at the bottom.

3. Go to health checks and create health check

The screenshot shows the AWS Route 53 console's Health checks page. The left sidebar is identical to the previous screenshot, with "Health checks" highlighted. The main content area has a header "Welcome to Route 53 health checks" followed by a paragraph: "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 can create health checks for HTTP, HTTPS, and TCP endpoints. To get started, click **Create health check**." Below this is a blue "Create health check" button. The section "Health check concepts" contains two cards. The first card, "Availability and performance monitoring", features an icon of a server with a checkmark and explains: "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." with a "Learn more" link. The second card, "DNS failover", features an icon of a shield with a checkmark and explains: "You can also use Route 53 health checks for DNS failover. You can create health checks for Route 53 DNS resource record sets. This lets you route traffic to healthy endpoints." with a "Learn more" link.

4. Give the required details.

aws

Services

Search

[Alt+S]

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

grrsf

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

Domain name *

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5. Give the endpoint of which you want to monitor.

aws

Services

Search

[Alt+S]

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.

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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

Domain name *

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6. Copy paste the URL in a new tab to check if its healthy.

aws Services Search [Alt+S]

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:

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:

Domain name *:

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

Dashboard
Hosted zones
Health checks
IP-based routing
CIDR collections
Traffic flow
Traffic policies
Policy records
Domains
Registered domains
Pending requests
Resolver

Health check with id 0c256e5c-5134-4136-95d9-41ee548aeae3 has been created successfully

Create health check Delete health check Edit health check

Filter by keyword

Name	Status	Description	Alarms
<input type="checkbox"/> prodhc	Unknown	http://alb-2instances-2019267418.ap-sou...	1 of 1 in INSUFFI

Info Monitoring Alarms Tags Health checkers Latency

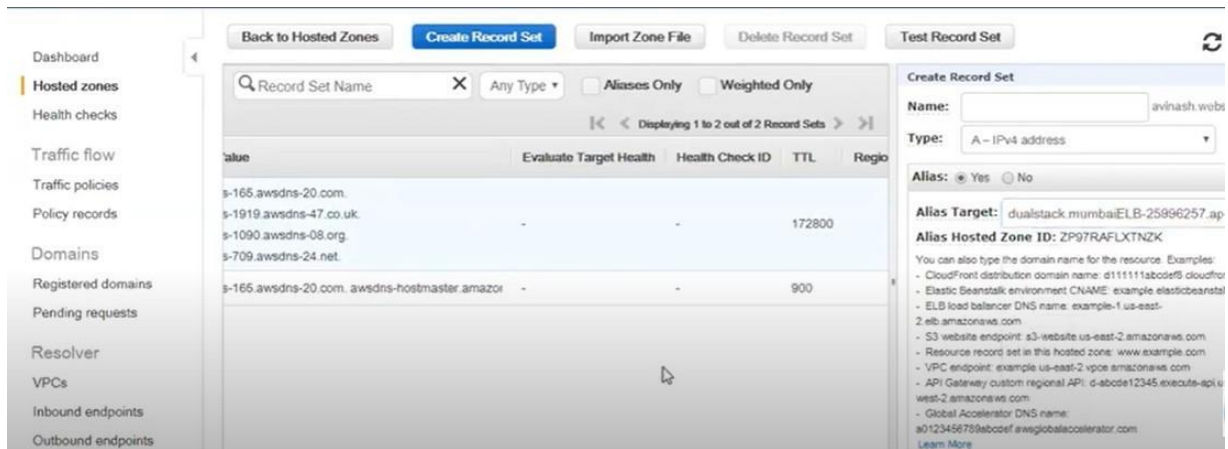
No health check selected.

No health check selected.

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

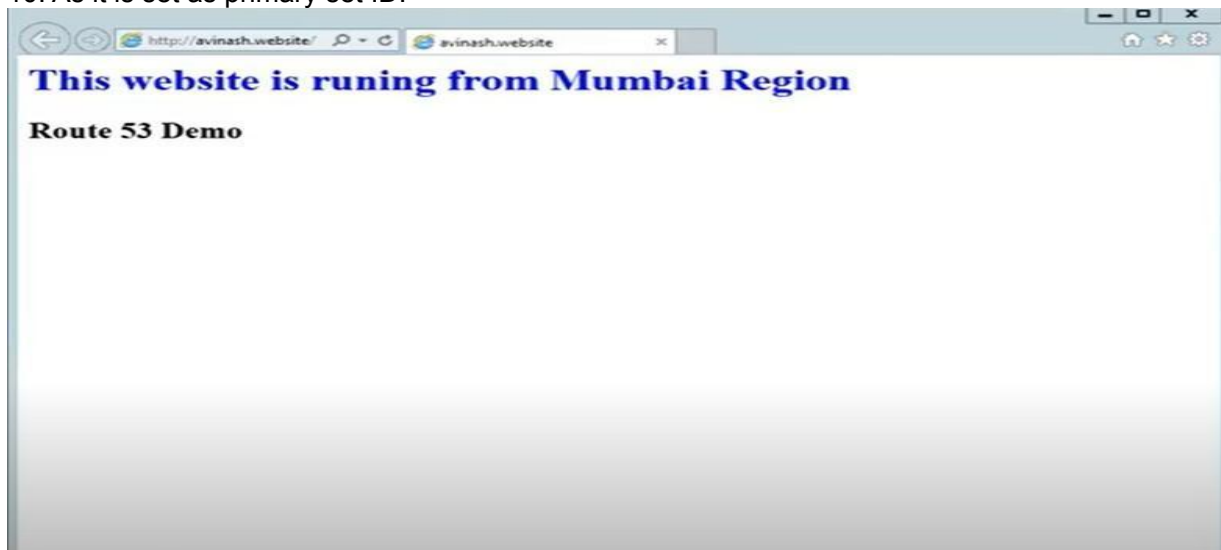
Health check is created and status is unknown and soon it will turn healthy because it is healthy

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.

