

## Experiment : 9

### Title : Configure Failover Routing with Amazon Route 53

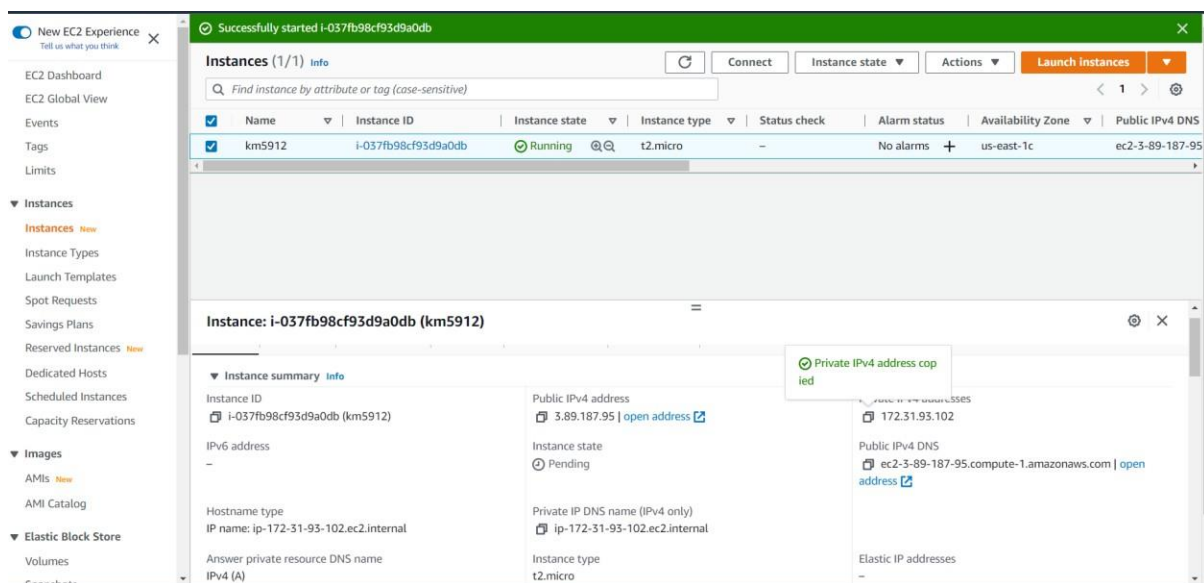
**Aim :** Configuring Amazon Route 53 as your DNS service

Making Route 53 the DNS service for an existing domain Configuring

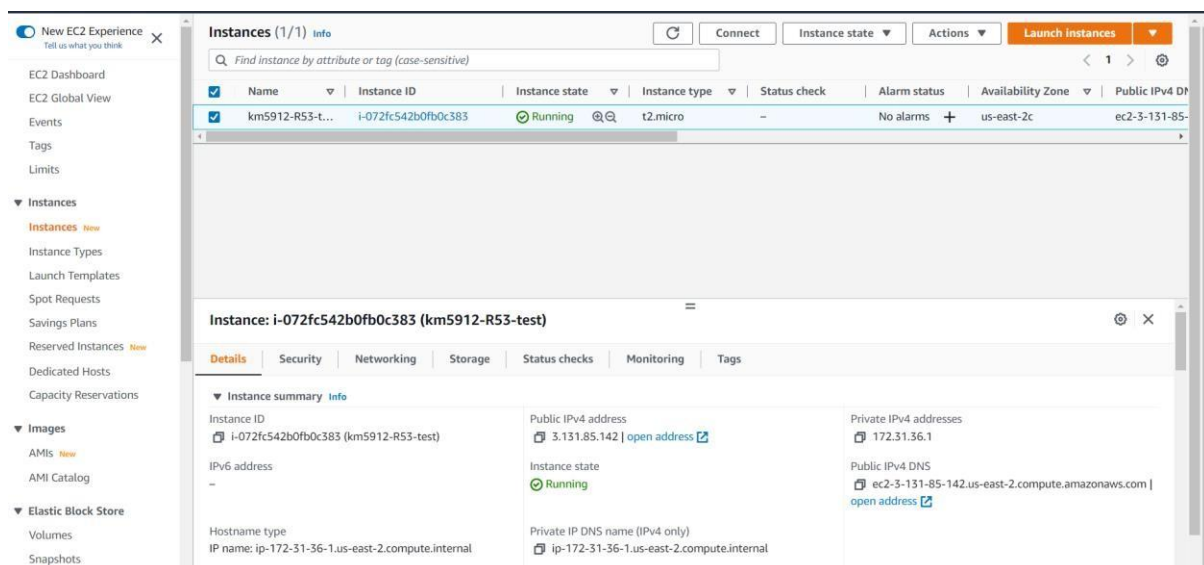
**Pre-requisites :** AWS Console, EC2 Instance, Route 53, Hosted zone, Health Check

### Procedure :

#### Step 1) Creating Primary Instance



#### Step 2) Creating Secondary instance



### Step 3) Created health check for primary Instance using it public ip address

The screenshot shows the AWS Route 53 console. A green notification banner at the top states: "Health check with id b9ee3594-babe-4104-bf84-8681e3d19a45 has been created successfully". Below this, there are buttons for "Create health check", "Delete health check", and "Edit health check". A table lists the health checks:

Name	Status	Description	Alarms	ID
test-failover-Vir	Unknown	http://3.89.187.95:80/	No alarms configured.	b9ee3594-babe-4104-bf84-8681e3d19a45

Below the table, there are tabs for "Info", "Monitoring", "Alarms", "Tags", "Health checkers", and "Latency". The "Monitoring" tab is selected, showing a graph area and a "Health checks" section with a "test-failover-Vir" entry. A "Time range" dropdown is set to "Last hour" with a "Refresh" button.

### Step 4) Create Host Zone in Route 53

### Step 5) Create Record Set in Hosted zone for primary Instance

The screenshot shows the AWS Route 53 console with a notification banner: "The new Route 53 console experience is now available". Below this, there are buttons for "Back to Hosted Zones", "Create Record Set", "Import Zone File", "Delete Record Set", and "Test Record Set". The "Create Record Set" button is highlighted.

The "Edit Record Set" configuration panel is open, showing the following details:

- Name:** test-failover-vir-awstrainingroute.com
- Type:** A - IPv4 address
- Alias:** No
- TTL (Seconds):** 300
- Value:** 3.89.187.95
- Routing Policy:** Failover
- Failover Record Type:** Primary
- Set ID:** test-failover-vir-Primary

The "Save Record Set" button is at the bottom right of the configuration panel.

### Step 6) Create Record Set in Hosted zone for Secondary Instance with using same name as previous Record set

The new Route 53 console experience is now available  
We've redesigned the Route 53 console to make it easier to use. [Try out the new console.](#)  
We are continuing to make improvements to the user experience based on your feedback, stay tuned!

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 4 out of 4 Record Sets

Name	Type	Value	Evaluate Target Health	Health
awstrainingroute.com.	NS	ns-872 awsdns-45 net. ns-1454 awsdns-53 org. ns-473 awsdns-59 com. ns-1736 awsdns-25 co.uk.	-	-
awstrainingroute.com.	SOA	ns-872 awsdns-45 net. awsdns-hostmaster.amazon.	-	-
test-failover-vir.awstrainingroute.com.	A	3.89.187.95	-	b9ee35c...
test-failover-vir.awstrainingroute.com.	A	3.131.85.142	-	-

Edit Record Set

Name: test-failover-vir.awstrainingroute.com

Type: A - IPv4 address

Alias: ☐ Yes ☒ No

TTL (Seconds):  300 1m 5m 1h 1d

Value: 3.131.85.142

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

Routing Policy: Failover

Route 53 responds to queries using primary record sets if any are healthy, or using secondary record sets otherwise. [Learn More](#)

Failover Record Type: ☐ Primary ☒ Secondary

Set ID: test-failover-vir-Secondary

Save Record Set

Step7) If the Primary Instance showing Unhealthy status then route will change it instance into Secondary Instance.

Create health check Delete health check Edit health check

Filter by keyword

<< 1 to 1 of 1 health check >>

Name	Status	Description	Alarms	ID
test-failover-Vir	Unhealthy	http://3.89.187.95:80/	No alarms configured.	b9ee3594-babe-4104-bf84-8681e

Info Monitoring Alarms Tags Health checkers Latency

Health checks test-failover-Vir

Time range Last hour Refresh

Health check status

Health checkers that report the endpoint healthy (percent)

**Result :** Here we Configure Failover Routing with Amazon Route 53