ICT & Infra S3 S/NO week 12: AWS Route53(1)

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Introduction

S/NO: Following these exercises you will learn how to:

- setup the initial lab configuration for AWS Route53 exercises
- create public hosted zone and simple records
- · configure heath check and failover records.

How to deliver your assignments?

Fill in this document with required information. Answer questions and upload the document to Canvas at most one week after the assignment is given.

Assignment 1: Create initial AWS Route53 setup.

- Fellow the demo from the lecture. Create necessary entities / configurations in AWS with provided Powershell scripts. We will need this setup for the following weeks Route53 setups.
- Use "SNO_week11_scripts.zip" scripts

Provide screenshots and descriptions of the steps above



Assignment 2 (Optional): Create initial AWS Route53 setup with Ansible/Terraform

• Create the demo components in Terraform/CloudFormation environment. You are going to automate Route53 components orchestration.

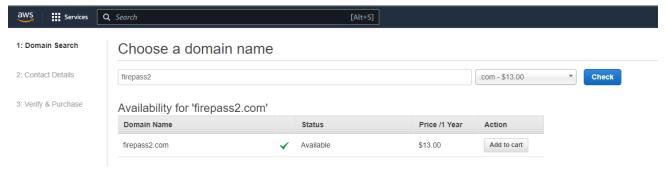
Provide screenshots and descriptions of the steps above

Assignment 3: Create AWS Route53 public hosted zone, transfer existing / register new domain to/in AWS.

- Fellow the demo from the lecture. Create necessary entities / configurations in AWS with provided Powershell scripts.
- Use "SNO_week12_scripts.zip" scripts

Provide screenshots and descriptions of the steps above

First, we choose in the free domain and take it.



Add contact details

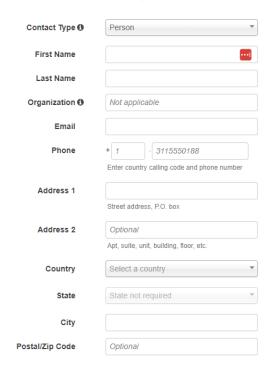
Contact Details for Your 1 Domain

Enter the details for your Registrant, Administrative and Technical contacts below. All fields are required unless specified otherwise. Learn more.

My Registrant, Administrative and Technical Contacts are all the same:

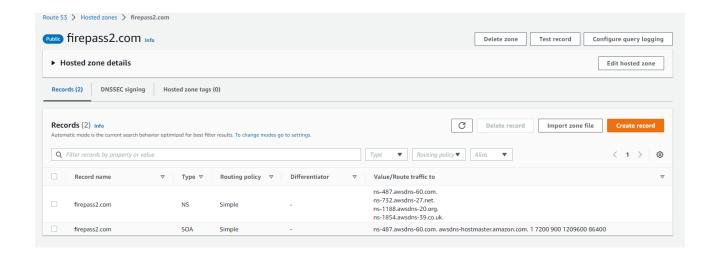
Yes ONo

Registrant Contact



and it is created





Assignment 4: Create AWS Route53 chain of failover records

Implement the chain of failover records demonstrated in the class.

Demonstrate the working scenario, diverting traffic to the last instance in the chain.

Think about where this scenario can be applied in your case-study project. Provide a diagram if possible.

Provide screenshots and descriptions of the steps above

For failover, go to the health checks section.

Welcome to Route 53 health checks

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 specify either a domain name or an IP address and a port to create HTTP, HTTPS, and TCP health checks that check the health of the endpoint. To get started, click **Create health check**.

Create health check

Health check concepts



Availability and performance monitoring

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.



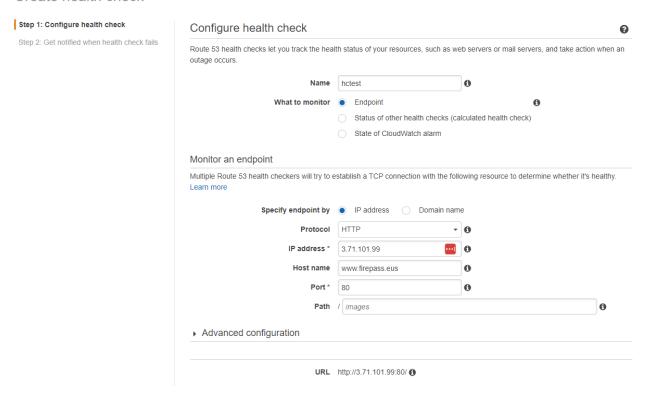
DNS failover

You can also use Route 53 health checks for DNS failover by associating health checks with any Route 53 DNS resource record set. This lets you route requests based on the health of your endpoints

Learn more Learn more

we create one by adding the web server data

Create health check



As we can see, we are already monitoring the health



In the case of shutting down the server we see that it warns us that something is happening because the connection has been lost.

