ICT & Infra S3 S/NO week 12 part A: AWS Route53(2)

**Class:**

**Student numbers:**

**Student names:**

Date: Sep 2020  
Version 1.0

# Introduction

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

* distribute traffic with weighted records and failover policy
* create geolocation and latency-based routing policies.

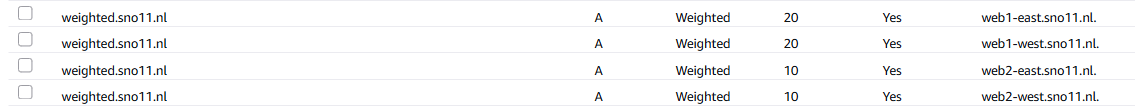
How to deliver your assignments?

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 AWS Route53 failover & weighted records*

* Implement the failover & weighted records scenario demonstrated in the class.
* Use “SNO\_week13\_scripts.zip” scripts if necessary.
* Prove that it works with some tests:
  + two instances with weight 20, two instances with weight 10.
  + S3 bucket message is displayed when all 4 instances are down.
* Think where can you apply this solution in your case-study?
* What are the pro’s / co’s with a similar functionality offered by application load balancer?

Provide screenshots and descriptions of the steps above



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Door AI gegenereerde inhoud is mogelijk onjuist.  
I firstly created the weighted records by following the demo then I created a s3 bucket whit index.html in it that public accesibel I enabeled static website hosting so it would be accessible then in route 53 I created a failover route and a calculated health check so that when every ec2 instance is down then the s3 bucket will be shown.   
if I would have hosted my website inside AWS I could use this in worst case cenario if website would be down but because I don’t use AWS for my website this is not applicable to my case study

Afbeelding met tekst, schermopname, Lettertype, software

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Afbeelding met tekst, schermopname, Lettertype, lijn

Door AI gegenereerde inhoud is mogelijk onjuist.  
  
here you can see the health check s3 working and the failover route created

Route 53 pro / cons

Pro

* Works across all AWS regions
* Can point to different AWS services
* Cheap

Cons

* Cont do smart routing
* Health checks are basic

Load balancer pro / cons

Pro

* Switches traffic instantely when instance fails
* Better monitoring and health checks
* Works great with auto-scalling

Cons

* Only works in one region at a time
* More expensive
* Cant point to s3 buckets.

## *Assignment 2: Create AWS Route53 geolocation and latency-based routing policies.*

* Think about where can you apply geolocation and latency-based policies in your case-study:
  + In which geographical locations do you want to provide your services?
  + What are differences in your web services w.r.t to geographical locations?
  + Which latency-based locations are best matching for your service? How many?
* Adjust your cloud components diagram, create necessary entities / configurations in AWS with Terraform/Ansible/CloudFormation

Provide screenshots and descriptions of the steps above

when looking at our case-study we could use geolocation if we had more regions with different containers but we only use on region so this is not applicable at the moment also we don’t use aws for website hosting so we would use this I just followed the demo but I doing this only one ip got shown when testing dns no matter where I put the second one

