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100 Days of DevOps — Day 50-Introduction to Route53 Failover

Welcome to Day 50 of 100 Days of DevOps, Focus for today is Route53 Failover

On Day 49, I talked about Route53, Let extend that concept further and talk about Failover Routing Policy.

100 Days of DevOps — Day 49-Introduction to Route53
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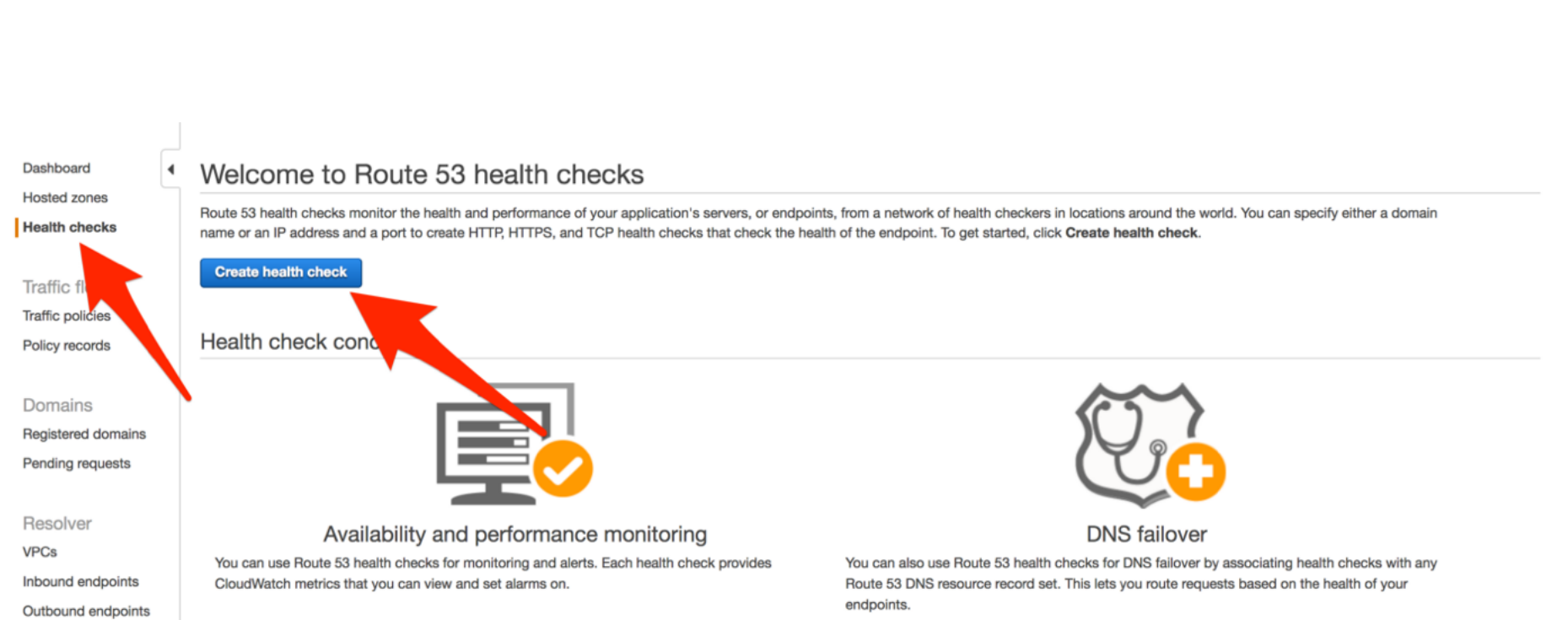
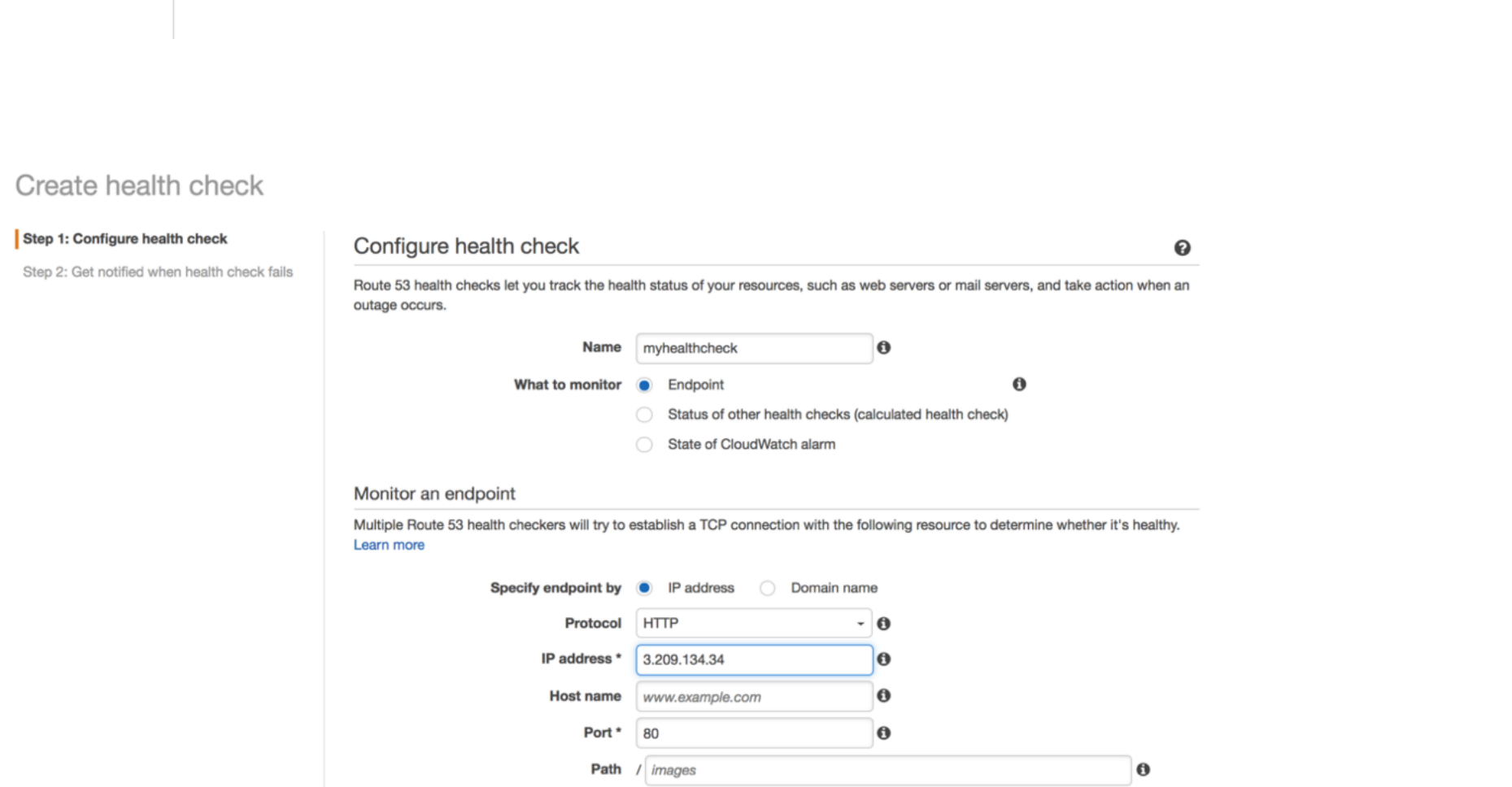
Scenario: *This is the common use case everyone faced, what will happen if my Primary site goes down, I need to have some sort of failover solution(eg: in this case S3) so that I will not lose my customer.*

Step1: Add Route53 Health Check failover

- *This time click on Health checks → Create health check*



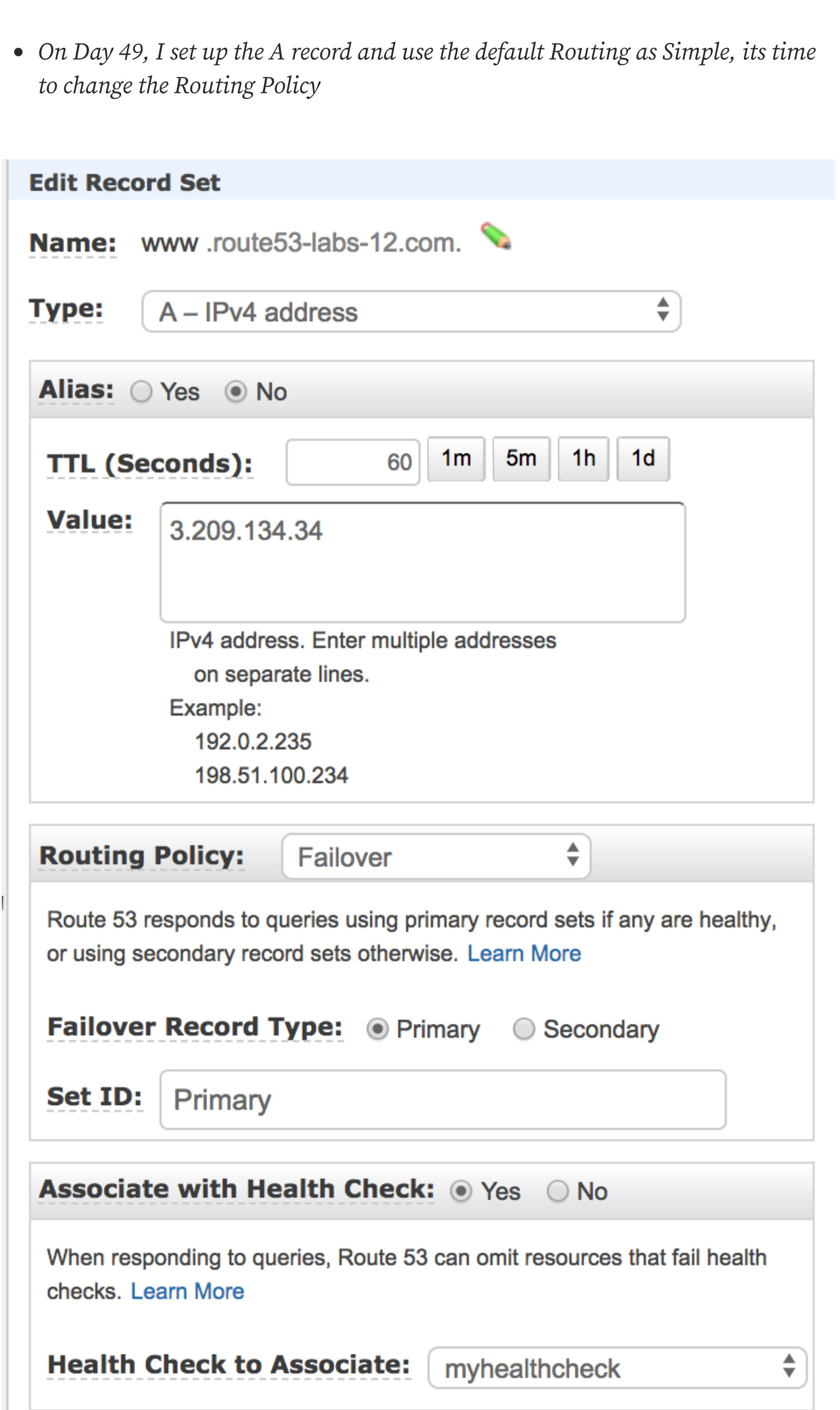



```
* Name: myhealthcheck
* What to monitor: Endpoint
* Specify endpoint by: IP address
* Protocol: HTTP
* IP Address: IP Address of your EC2 instance
* Port: 80
* Click Next
* Create Alarm: No
```


NOTE: Please wait for a few mins till you see the status change from unknown to healthy

Step2: Configure DNS Failover to an Amazon S3 static website

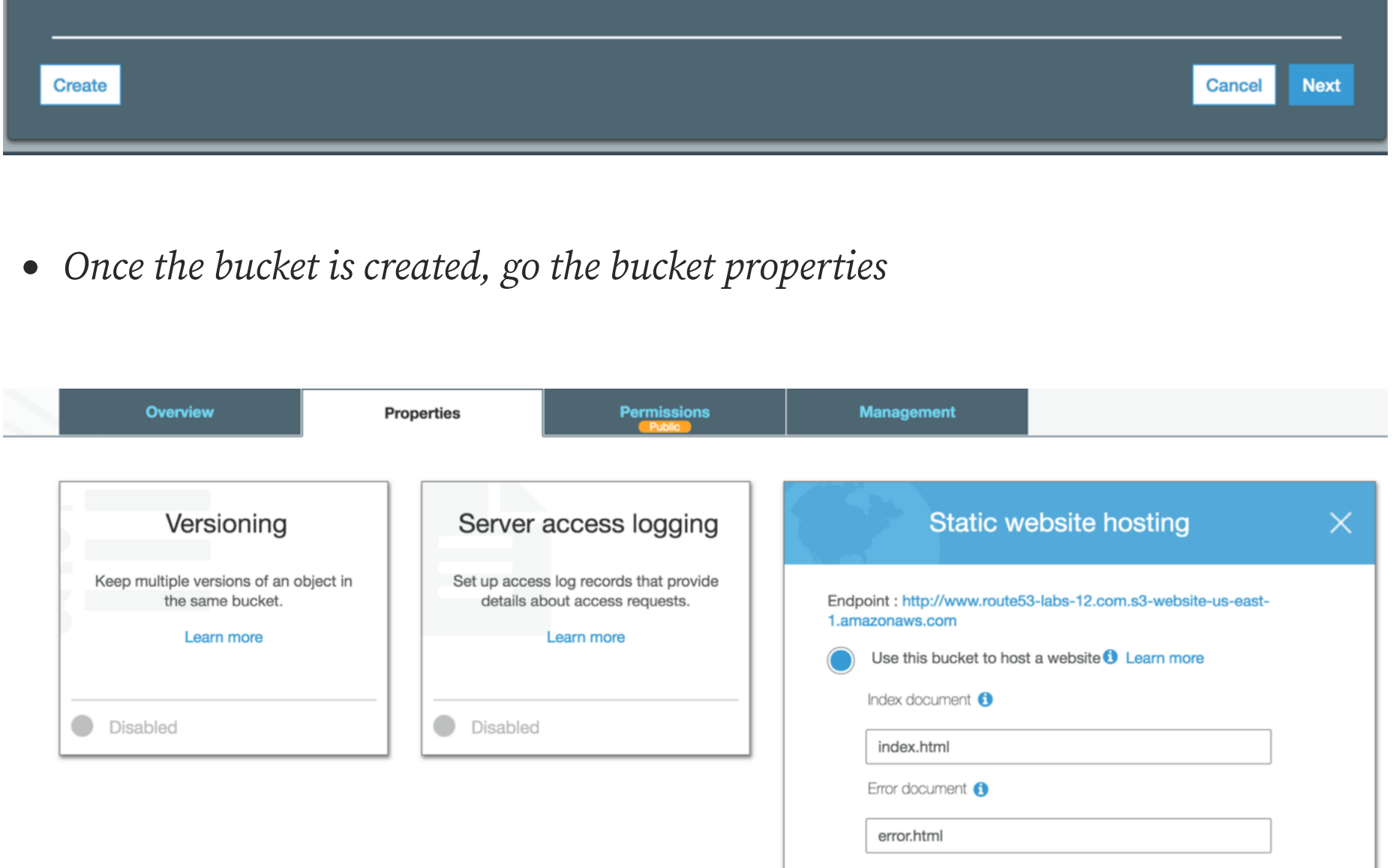
- *On Day 49, I set up the A record and use the default Routing as Simple, its time to change the Routing Policy*



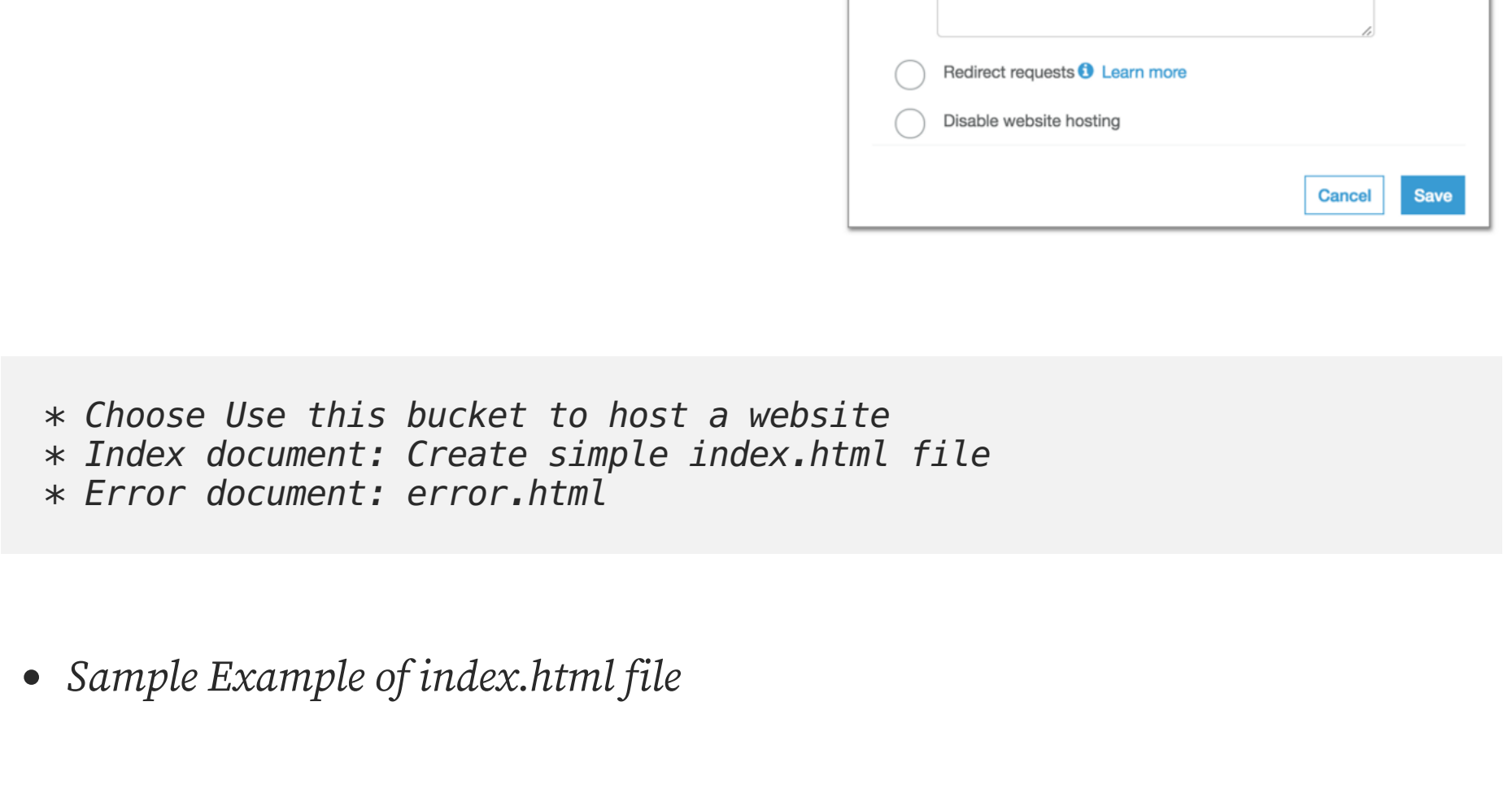

```
* Change the Routing Policy as Failover
* Failover Record Type: Primary
* Set ID: Primary
* Associate with Health Check: Yes
From the drop down, choose the health check we created in Step1
```

Step3: Create an S3 bucket with the same name as your domain name

```
* Go to S3  Console https://s3.console.aws.amazon.com/s3 --> Create bucket
```



- *Once the bucket is created, go the bucket properties*



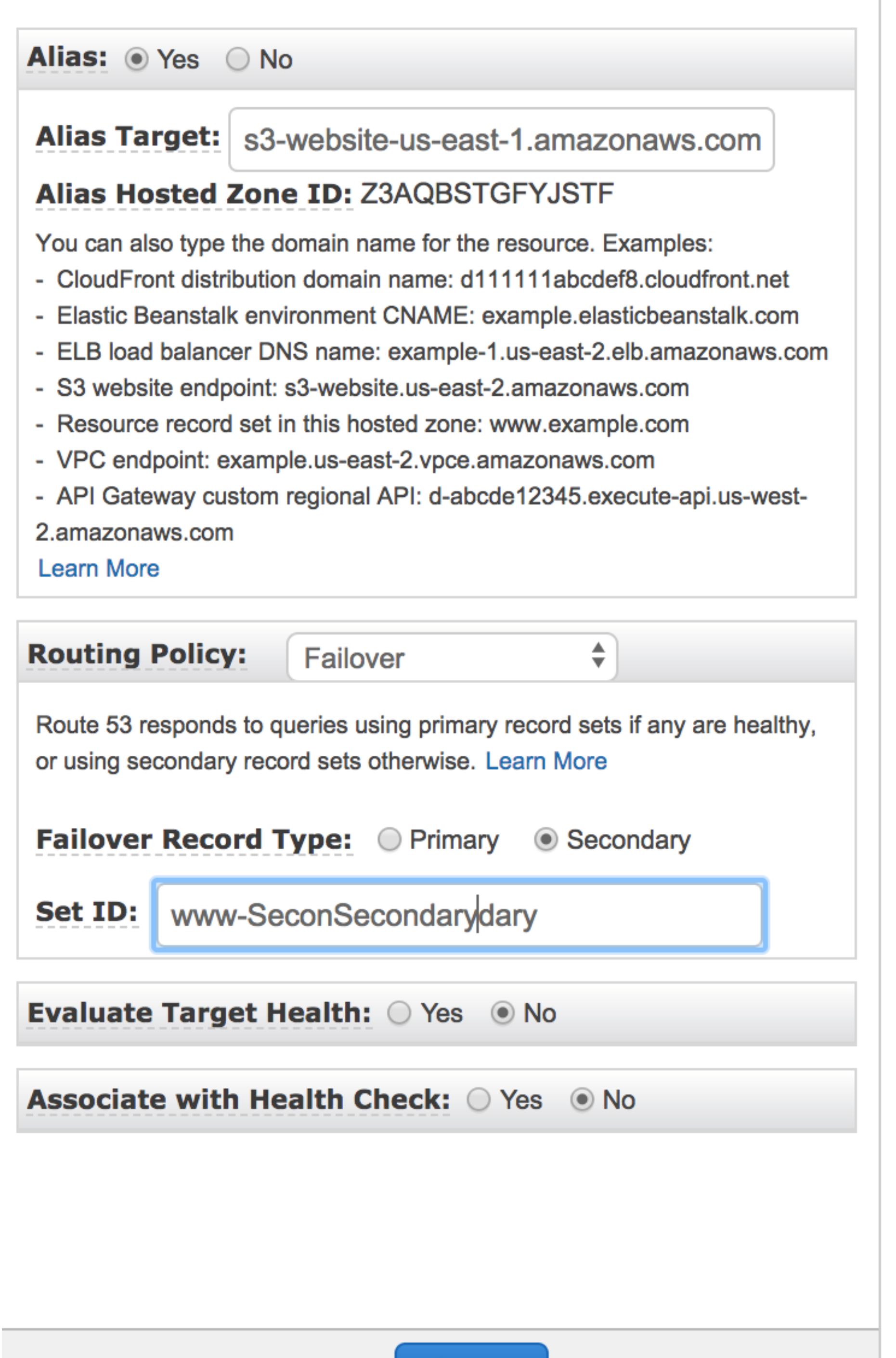

```
* Choose Use this bucket to host a website
* Index document: Create simple index.html file
* Error document: error.html
```

- *Sample Example of index.html file*

```
<html>
<header><title>This is title</title></header>
<body>
Hello world
</body>
</html>
```

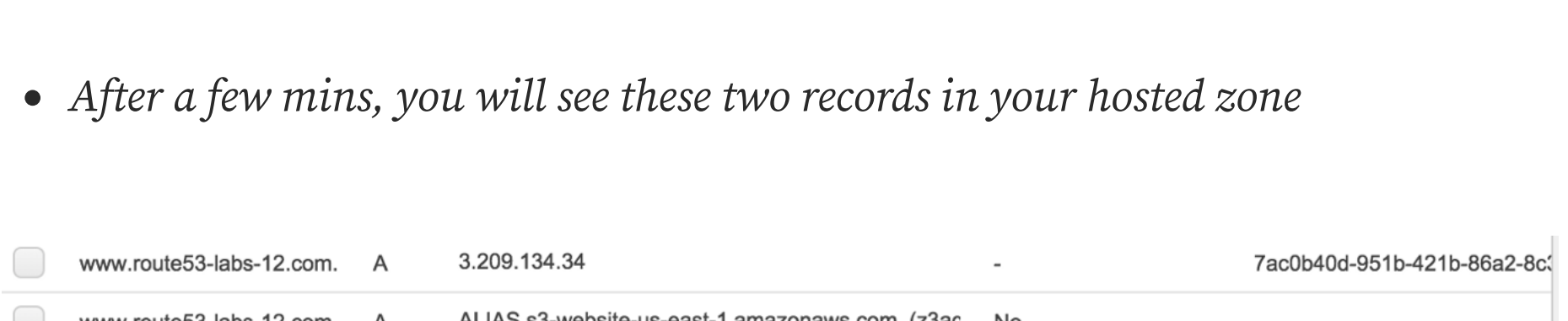
index.html hosted with ❤ by GitHub view raw

- *Copy the endpoint created in this step*
- *Go back to Route53 → Create Record Set*




```
* Name: www
* Type: A IPv4 Address
* Alias: Yes(This time choose Alias to Yes)
* Alias Target: Choose the S3 bucket
* Routing Policy: Failover
* Failover Record Type: Secondary
* Set ID: Secondary
* Evaluate Target Health: No
* Associate with Health Check: No
```

- *After a few mins, you will see these two records in your hosted zone*



Step4: Initiate a failover

- *Go to EC2 console and stop the instance*
- *Go back to your Route53 Management console and click on health check(it will take at least 2 min to get it reflected here and status change to unhealthy)*
- *After few min, browse your url again and you will see your site is back and served via S3.*

Looking forward from you guys to join this journey and spend a minimum an hour every day for the next 100 days on DevOps work and post your progress using any of the below medium.

- *Twitter: @100daysofdevops OR @lakhera2015*
- *Facebook: https://www.facebook.com/groups/795382630808645/*
- *Medium: https://medium.com/@devopslearning*
- *Slack: https://devops-myworld.slack.com/messages/CF41EFG49/*
- *GitHub Link:https://github.com/100daysofdevops*

Reference

100 Days of DevOps — Day 0
D-day is just one day away and finally, this is a continuation of the post(I posted a month earlier)
medium.com

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