Synctree Flosports | Subdomain Delegation

Introduction

We have multiple accounts, a Management Account that contains the HostedZone for example `flo-infra.net`. We need to delegate subdomains to hosted zones in the child accounts.

e.g., the Subdomain pattern will look like `{app}.{account}.flo-infra.net` so for the flo360 account it would need `flo360.flo-infra.net` as apps can add its primary Hosted Zone and subdomains as they use them.

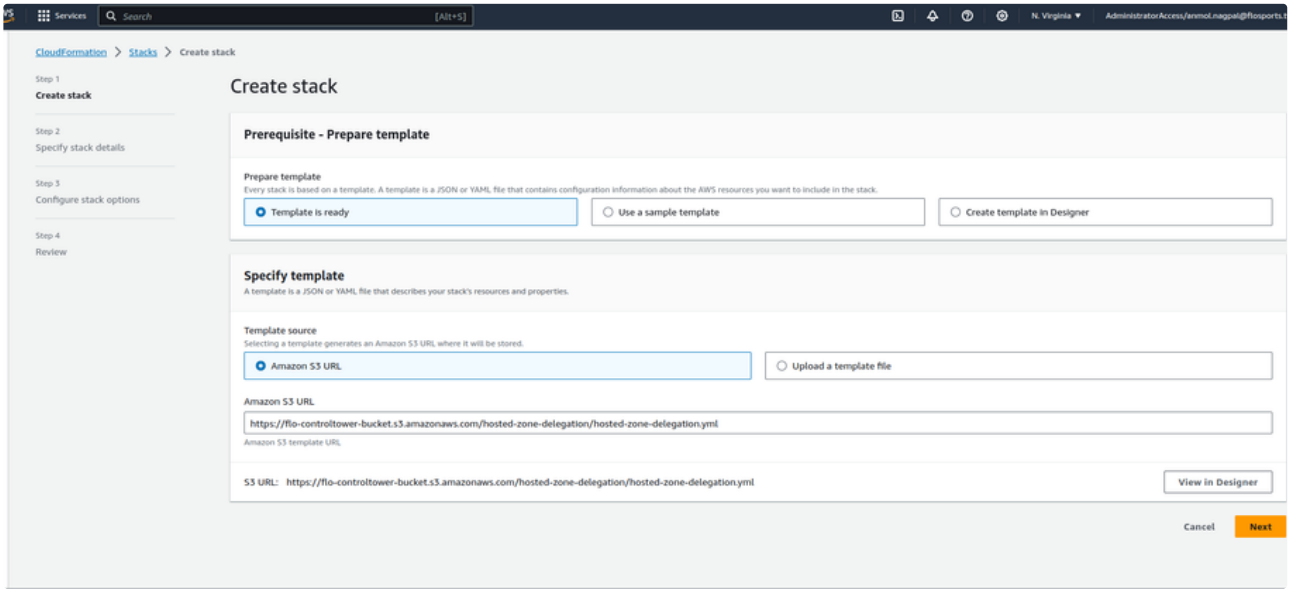
We will use cloudformation template to delegate subdomains to hosted zones in each child account. This cloudformation template will add the subdomain in A record once it is created as a hosted zone in the child account automatically.

Steps to delegate subdomains to hosted zones

First, we need to set up the Lambda function and SNS trigger in the master account to delegate subdomains to hosted zones in the child account.

Master account configuration

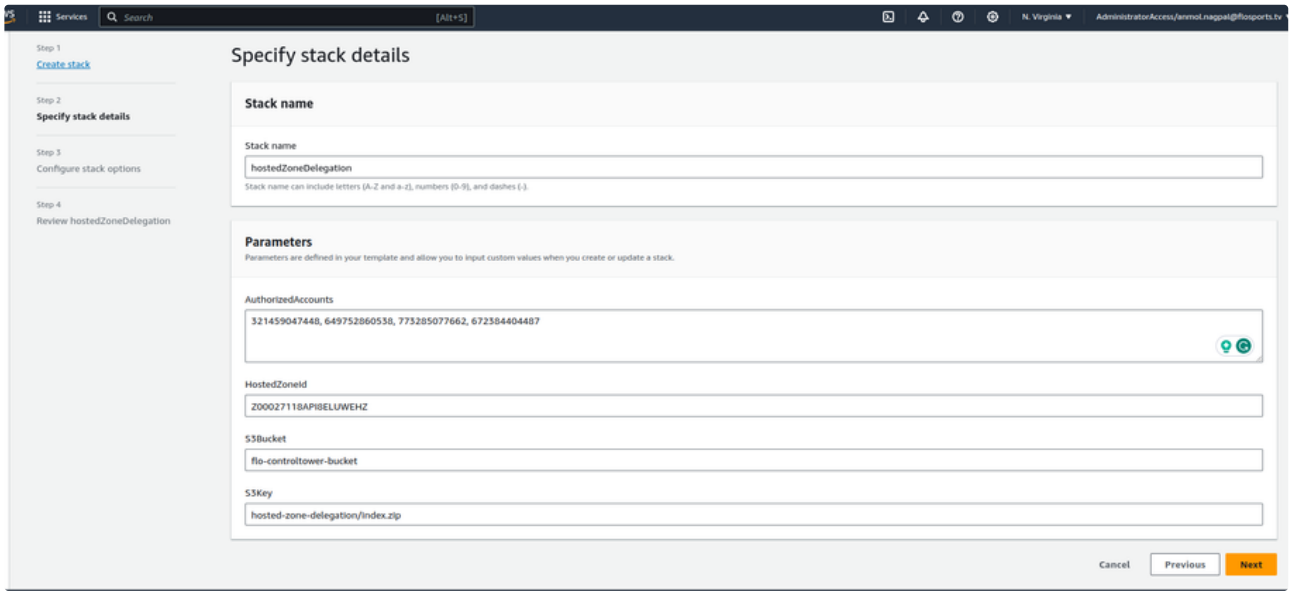
Step 1: Go to Cloudformation and select Create Stack, select With New resource
Step 2: Put the object URL of the template and select next.



- **Step 3:** Fill all the details such as
  Stack name: Name of the stack
- AuthorisedAccount: List of authorised account where you want to delegate subdomains
  e.g: 111111111111, 222222222222
- HostedZoneId: Main hosted zone Id
- S3Bucket: S3 bucket name where we shored template

- S3Key: S3 key of zip file

select next



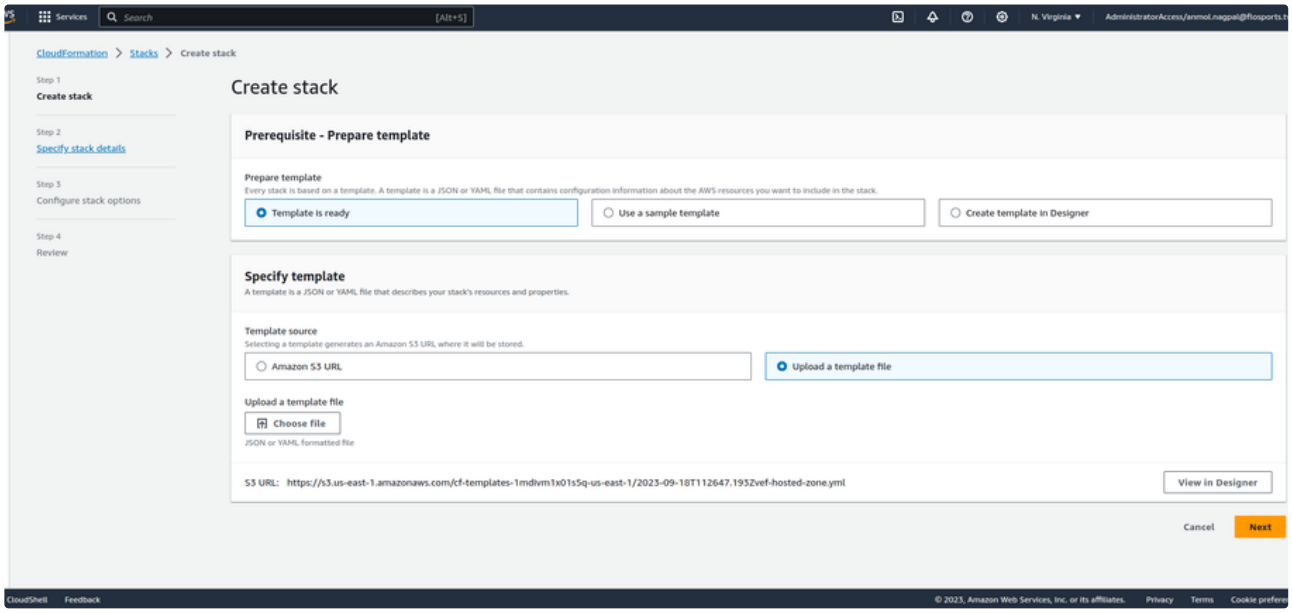
Step 4: Review all the details, check the terms and conditions box, and select submit.

This stack will create a Lambda function and trigger SNS topic for delegated subdomains.

Child account configuration

Step 1: Go to Cloudformation and select Create Stack, select With New resource

Step 2: Upload the cloudformation template of the child account configuration and select next.

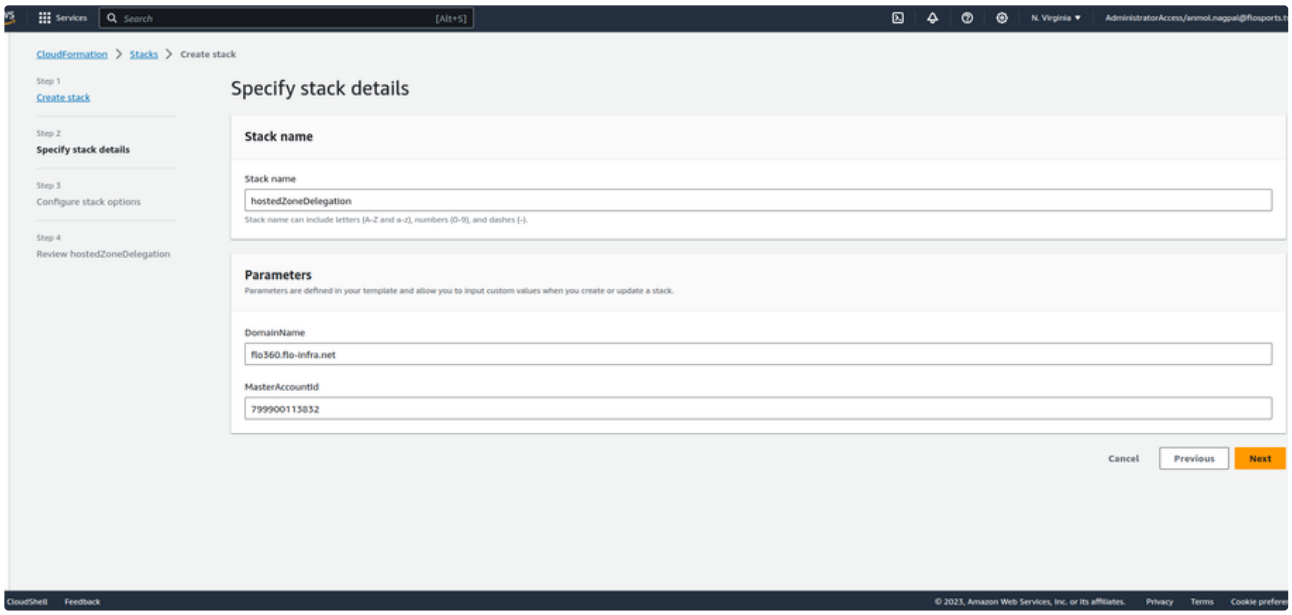


Step 3: Fill all the details

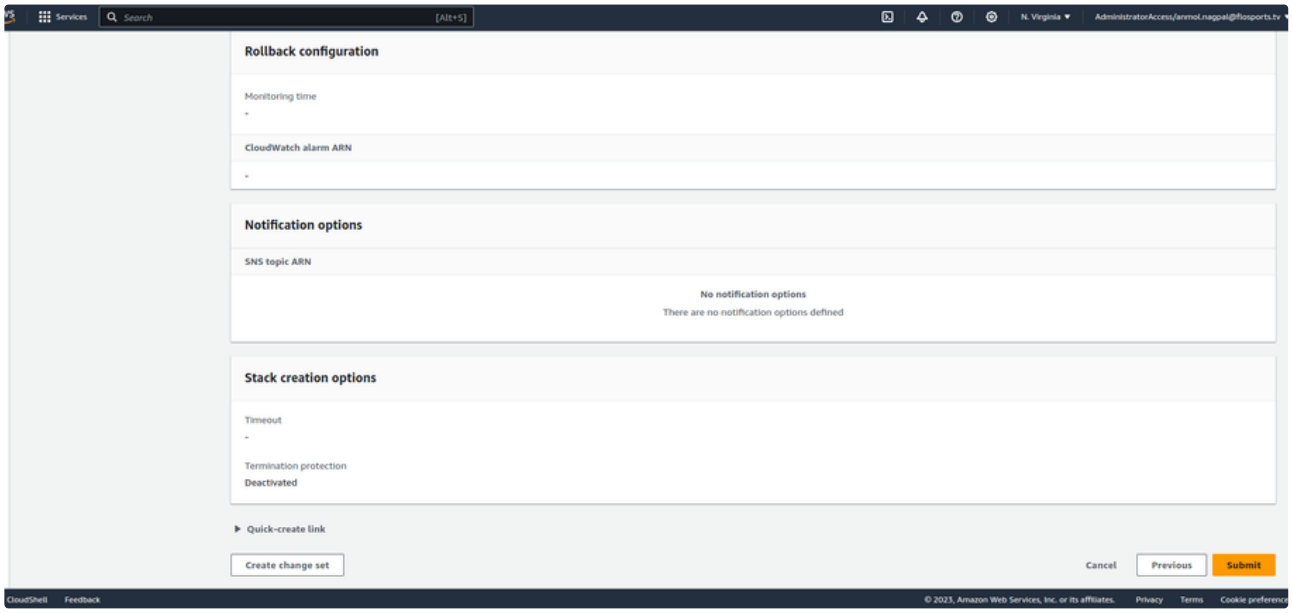
DomainName: Subdomain that you want to delegate

MasterAccountId: Master account ID.

select Next



Step 4: Review all the configuration and select submit



This will create a hosted zone for the subdomain in child account.

References

Managing Cross-Account DNS with Route 53, Lambda, and CloudFormation

https://github.com/martijnvandongen/blog-managing-cross-account-dns-with-route-53-lambda-and-cloudformation