

1. Create a bucket for your root domain with the following details:
 - a. Bucket name: Enter the name of your domain, such as [jjtech.com](#).
 - b. Region
2. Create another S3 Bucket, for your subdomain with the following details:
Bucket name: Enter *www.your-domain-name*. For ex, if you registered the domain name [jjtech.com](#), enter [www.jjtech.com](#).
3. Set up your root domain bucket for website hosting:
 - a. Go to your root domain bucket and Choose Properties.
 - b. Under Static website hosting, choose Enable.
 - c. In Index document, enter index.html.
 - d. In the error document section enter error.html
 - e. Choose Save changes.
 - f. Under Static website hosting, note the Endpoint.
4. Set up your subdomain bucket for website redirect
 - a. Go to S3 and select your subdomain bucket name (for ex, [www.jjtech.com](#)).
 - b. Choose Properties.
 - c. Under Static website hosting, choose Edit.
 - d. Choose Redirect requests for an object.
 - e. In the Target bucket box, enter your root domain, for ex, [jjtech.com](#).
 - f. For Protocol, choose http.
 - g. Choose Save changes.
5. Upload index to create website content. Copy the below text and save it as index.html

```
<html>
<head>
<title>Amazon Route 53 DNS</title>
</head>
<body>
<h1>JJTech Immersion Batch B is learning how to to use Route53 DNS for
a static website</h1>
```

```
<p>For more information, checkout  
<a  
href="https://academy.jjtechinc.co/our-courses/aws-foundational-and-advanced-training/">JJTechs's Advance training course outline</a>  
For more <emphasis>information on JJTech's detail  
curriculum</emphasis>.</p>  
</body>  
</html>
```

- a. Upload this file to your root domain bucket.
6. Edit S3 Block Public Access settings
 - a. Go to S3 and Choose the name of the bucket that you have configured as a static website.
 - b. Choose Permissions.
 - c. Under Block public access (bucket settings), choose Edit.
 - d. Clear Block all public access, and choose Save changes.
7. Attach a bucket policy:
 - a. Go to your root domain bucket
 - b. Choose Permissions.
 - c. Under Bucket Policy, choose Edit.
 - d. Copy the following bucket policy and paste it into a text editor. This policy grants everyone on the internet ("Principal": "*") permission to get the files ("Action":["s3:GetObject"]) in the S3 bucket that is associated with your domain name ("arn:aws:s3:::your-domain-name/*").

```
{  
  "Version": "2012-10-17",  
  "Statement": [{  
    "Sid": "AddPerm",  
    "Effect": "Allow",  
    "Principal": "*",  
    "Action": [  
      "s3:GetObject"
```

```

    ],
    "Resource":[
        "arn:aws:s3:::your-domain-name/*"
    ]
}

```

- e. Update the value for Resource to *your-domain-name*, for ex **jjtech.com**. Save changes
8. Test your domain endpoint. Copy and paste your static website endpoint on a web browser to see if the index.html document will show.
9. Route DNS traffic for your domain to your website bucket

To route traffic to your website

- a) Open the Route 53 console
- b) In the navigation pane, choose Hosted zones and select your hosted zone.
- c) Choose Create record.
- d) Choose Switch to wizard.
- e) Choose Simple routing and choose Next.
- f) Choose Define simple record.
- g) In Record name, accept the default value, which is the name of your hosted zone and your domain.
- h) In Record type, choose A - Routes traffic to an IPv4 address and some AWS resources.
- i) In Value/Route traffic to, choose Alias to S3 website endpoint.
- j) Choose the Region.
- k) Choose the S3 bucket.

If you created a bucket for your subdomain, add an alias record for it also.

- a) Under Configure records, choose Define simple record.
- b) In Record name for your subdomain, type www.
- c) In Record type, choose A - Routes traffic to an IPv4 address and some AWS resources.
- d) In Value/Route traffic to, choose Alias to S3 website endpoint.
- e) Choose the Region.
- f) Choose the S3 bucket, for ex, s3-website-us-west-2.amazonaws.com

- g) Choose Define simple record.
 - h) On the Configure records page, choose Create records.
-

i) Step 11: Test your website

To verify that the website is working correctly, open a web browser and browse to the following URLs:

- <http://your-domain-name>, for ex, jjtech.com – Displays the index document in the *your-domain-name* bucket
- <http://www.your-domain-name> for ex, www.jjtech.com – Redirects your request to the *your-domain-name* bucket