Instructions: Deploying a Vite React App to S3

**Objective:  
Deploy a Vite React application to AWS S3 and serve it as a static website.**

**Steps**

1. **Verify AWS CLI Installation  
   Ensure that AWS CLI is installed correctly: aws --version**
2. **Configure AWS CLI  
   If not already configured, set up your AWS CLI with your credentials: aws configure  
   Enter your AWS Access Key ID, Secret Access Key, default region name (e.g., us-east-1), and default output format (e.g., json).**
3. **Build Your Vite React App  
   In your project directory, build your Vite React application: npm run build  
   This will create a dist folder with your production-ready files.**
4. **Create an S3 Bucket  
   Create a new S3 bucket for your app: aws s3 mb s3://<your-unique-bucket-name>  
   Replace <your-unique-bucket-name> with a globally unique bucket name.**
5. **Configure S3 Bucket for Static Website Hosting**
   1. **Navigate to S3 in the AWS Management Console  
      Open the S3 service in your AWS Management Console. Select the bucket you created.**
   2. **Unblock Public Access  
      Go to the "Permissions" tab. Click on "Edit" under "Block public access (bucket settings)". Uncheck "Block all public access". Confirm the changes by typing "confirm" and clicking "Save".**
   3. **Enable Static Website Hosting  
      Go to the "Properties" tab. Scroll down to "Static website hosting" and click "Edit". Select "Enable". Set the "Index document" to index.html. Click "Save changes".**
6. **Set Bucket Policy for Public Access**
   1. **Add Bucket Policy  
      Under the "Permissions" tab, scroll down to "Bucket policy" and click "Edit". Add the following policy, replacing <your-unique-bucket-name> with your bucket name:**

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "PublicReadGetObject",

"Effect": "Allow",

"Principal": "\*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::<your-unique-bucket-name>/\*"

}

]

}

**Click "Save" to apply the policy.**

1. **Upload Build Files to S3**
   1. **Sync Build Files  
      Upload the contents of the dist folder to your S3 bucket: aws s3 sync dist/ s3://<your-unique-bucket-name>/**
2. **Access Your React App  
   After the upload is complete, you can access your React app via the bucket’s static website URL. The URL format is typically http://<your-unique-bucket-name>.s3-website-<region>.amazonaws.com.**