Solution deployment / Deployment

Deployment Process

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Clone TEAM repo

To clone the TEAM amplify fullstack project, execute the following command inside an empty directory

```
git clone https://github.com/aws-samples/iam-identity-center-team.git
```

This creates a directory named **iam-identity-center-team** in your current directory.

Update deployment parameters

Create a new file named **parameters.sh** in the **deployment** directory. Copy the contents of the file **parameters-template.sh** to the new file.

```
cd deployment
cp -n parameters-template.sh parameters.sh
```

Update the parameters in the **parameters.sh** file as follows:

Parameters

Required:

- **IDC_LOGIN_URL** - AWS IAM Identity Center Login URL
- **REGION** - AWS region where the application will be deployed.

> **IMPORTANT**
> This must be the same region AWS IAM Identity Center is deployed in

- **TEAM_ACCOUNT** - ID of AWS Account into which TEAM application will be deployed
- **ORG_MASTER_PROFILE** - Named profile for Organisation master account
- **TEAM_ACCOUNT_PROFILE** - Named profile for TEAM Application deployment Account
- **TEAM_ADMIN_GROUP** - Name of IAM Identity Center group for TEAM administrators
- **TEAM_AUDITOR_GROUP** - Name of IAM Identity Center group for TEAM auditors
- **CLOUDTRAIL_AUDIT_LOGS** - ARN of organization CloudTrail Lake event datastore
- **SECRET_NAME** - Name of the Secret stored in AWS Secret Manager

> When using Github as the external repository ensure you use Tokens (classic) (https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/managing-your-personal-access-tokens#personal-access-tokens-classic) instead of Fine-grained tokens

Optional:

- **TAGS** - Tags that should be propagated to nested stacks and underlying resources
- **UI_DOMAIN** - Custom domain for Amplify hosted frontend application (should only be included if you have setup a custom domain for the frontend application)

For example:

```
IDC_LOGIN_URL=https://d-12345678.awsapps.com/start
REGION=us-east-1
TEAM_ACCOUNT=123456789101
ORG_MASTER_PROFILE=OrgMAsterProfileName
TEAM_ACCOUNT_PROFILE=TeamAccountProfileName
TEAM_ADMIN_GROUP="team_admin_group_name"
TEAM_AUDITOR_GROUP="team_auditor_group_name"
TAGS="tag1=value1 tag2=value2"
CLOUDTRAIL_AUDIT_LOGS=arn:aws:cloudtrail:us-east-1:123456789101:eventdatastore/e646f20d-7959-4682-be
```

```
UI_DOMAIN=portal.teamtest.online
SECRET_NAME=TEAM-IDC-APP
```

Run Initialisation Script

The **init.sh** bash script in the **deployment** folder configures the following prerequisites required for deploying the TEAM application:

- Configures the **TEAM_ACCOUNT** as a delegated admin for account management
- Configures the **TEAM_ACCOUNT** as a delegated admin for cloudtrail management
- Configures the **TEAM_ACCOUNT** as a delegated admin for AWS IAM Identity Center Management

> Ensure that the named profile for the **Organisation Management account** has sufficient permissions before executing the **init.sh** script

Execute the following command in the root directory to deploy the script

```
cd deployment
./init.sh
```

If the init.sh script is deployed successfully, the output should be similar as shown below

```
$ 123456789101 configured as delegated Admin for AWS Account Manager
$ 123456789101 configured as delegated Admin for cloudtrail
$ 123456789101 configured as delegated Admin for IAM Identity Center
```

Run Deployment Script

The **deploy.sh** bash script in the **deployment** folder performs the following actions within the **TEAM_ACCOUNT** :

- Creates a CodeCommit repository and copies the TEAM application directory content to the repository.

- Deploys a cloudformation template that creates an amplify hosted application and CI/CD pipeline for deploying the TEAM application.

> **NOTE**
> Ensure that the named profile for the **TEAM Deployment account** has sufficient permissions before executing the **deploy.sh** script

Execute the following command in the root directory to deploy the script

```
cd deployment
./deploy.sh
```

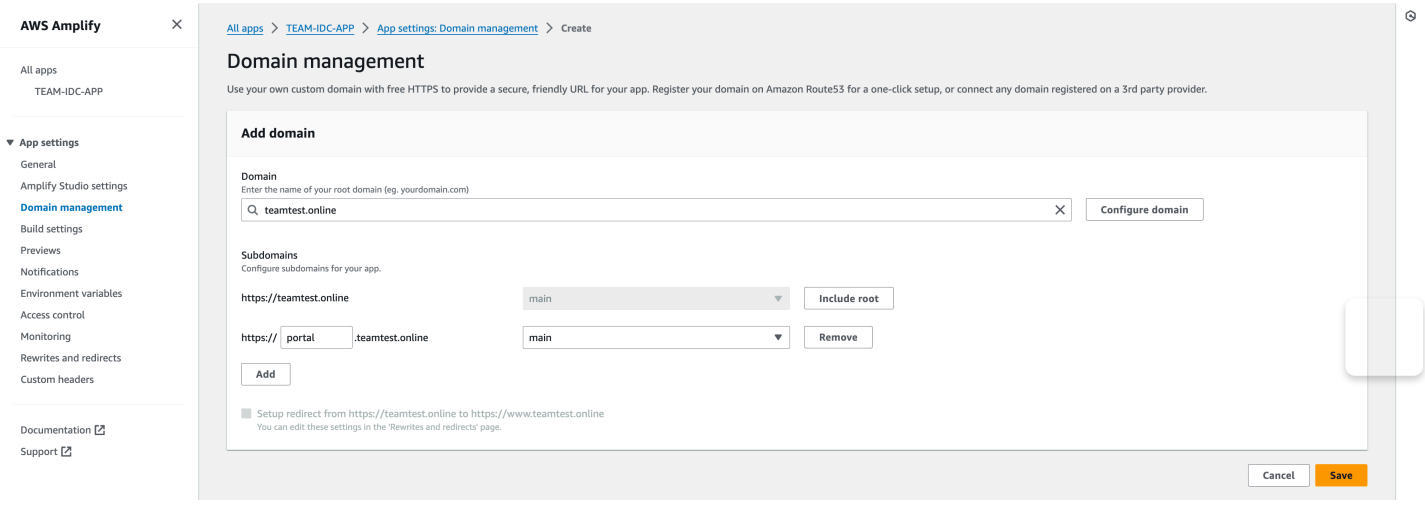
Once the deployment script has completed execution and the cloudformation stack has been created successfully, go to the AWS Amplify console to monitor the status of the TEAM application deployment.

> **NOTE**
> It takes about 20 mins to complete the build and deployment of the Amplify application stack

Custom Domain Registration

> This step is optional and required only if you have included a **UI_DOMAIN** parameter and intend to use a custom domain for your TEAM deployment instead of the default amplify generated domain name.

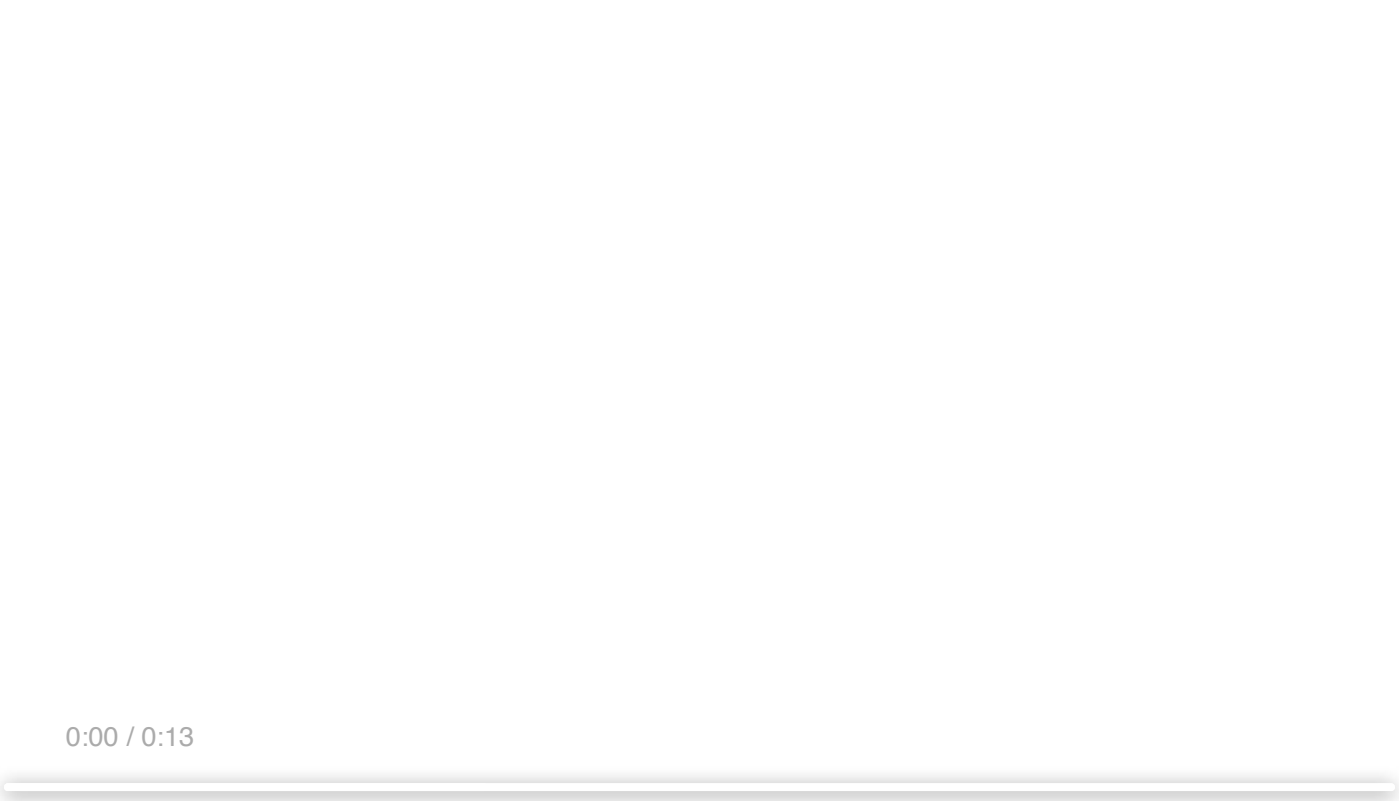
Go to Amplify console: AWS AMPLIFY → All Apps → TEAM-IDC-APP → Domain Management → Add domain.



Follow instructions in Amplify documentation for more details on setting up custom domains

Verify app deployment

Go to Amplify console: **AWS Amplify -> All apps -> TEAM-IDC-APP -> Hosting environments**. On the **Hosting environments** tab, click on the application URL to confirm that it was deployed successfully and you can access the TEAM application landing page as shown in the video below:



🚀 Next Step: Configure TEAM Application

Deploying TEAM into management account

> **WARNING**
> We strongly recommend and encourage deploying TEAM into a **delegated admin account** (**not management account**) as per AWS best practice. If you have a valid use case for deploying in the management account, please proceed with caution and consider the necessity of stringent management account access controls.

To deploy TEAM into management account:

1. Instead of using **parameters-template.sh** file, use the provided **parameters-mgmt-template.sh** as a template for your **paramaters.sh** file. This file omits the following parameters:

- **TEAM_ACCOUNT**
- **TEAM_ACCOUNT_PROFILE**

and uses **ORG_MASTER_PROFILE** to deploy the solution.

2 Do **not** run the initialisation script **init.sh**. You can proceed straight to running the deployment script **deploy.sh**.