Deploying AWS CloudFormation template

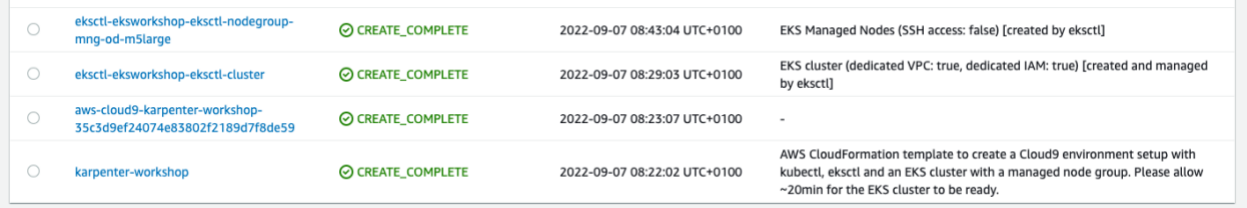
The workshop requires an AWS Cloud9 workspace and a S3 buckets as the prerequisites. To save time you install these prerequisites using a cloudformation template.

1. Download locally this cloudformation stack into a file (**emr-spark-spot-workshop-quickstarter-cnf.yml**).
2. Go to the CloudFormation console and select **With new resources(standard)** option in **Create stack** drop down.
3. In the **Create stack** stack form in **Prerequisite - Prepare template** section select **Template is ready**.
4. In **Specify template** section select **Upload a template file** and click on **Choose file** button to upload the CloudFormation template you downloaded in step 1.
5. Enter **Stack Name** emrspot-workshop in the **Stack Name** and leave all the settings in the parameters section with the default parameters and click **Next**
6. In the Configure Stack options just scroll to the bottom of the page and click **Next**
7. Finally in the **Review emrspot-workshop** go to the bottom of the page and tick the **Capabilities section *I acknowledge that AWS CloudFormation might create IAM resources.* then click **Create stack**

The deployment of this stack may take up to 10 minutes. You should wait until all the resources in the cloudformation stack have been completed before you start the rest of the workshop.

Checking the completion of the stack deployment

One way to check your stack has been fully deployed is to check that all the cloudformation dependencies are green and succeeded in the cloudformation dashboard; This should look similar to the state below.



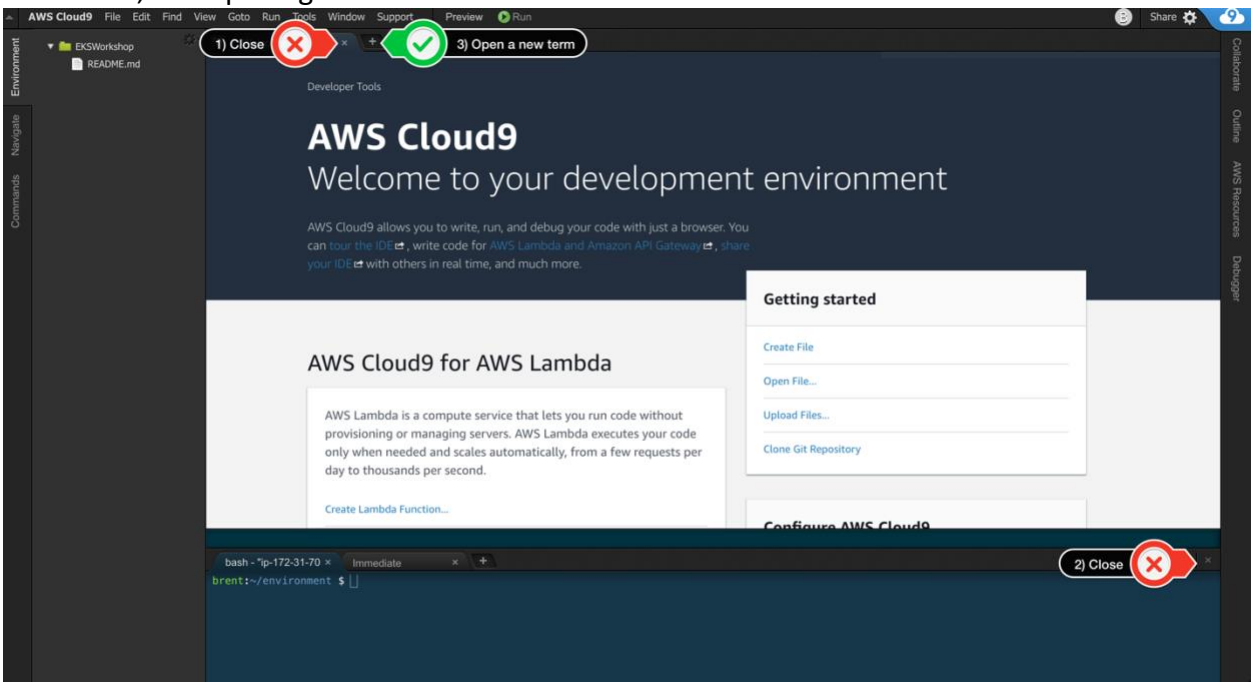
eksctl-eksworkshop-eksctl-nodegroup-mng-od-m5large	CREATE_COMPLETE	2022-09-07 08:43:04 UTC+0100	EKS Managed Nodes (SSH access: false) [created by eksctl]
eksctl-eksworkshop-eksctl-cluster	CREATE_COMPLETE	2022-09-07 08:29:03 UTC+0100	EKS cluster (dedicated VPC: true, dedicated IAM: true) [created and managed by eksctl]
aws-cloud9-karpenter-workshop-35c3d9ef24074e83802f2189d7f8de59	CREATE_COMPLETE	2022-09-07 08:23:07 UTC+0100	-
karpenter-workshop	CREATE_COMPLETE	2022-09-07 08:22:02 UTC+0100	AWS CloudFormation template to create a Cloud9 environment setup with kubectl, eksctl and an EKS cluster with a managed node group. Please allow ~20min for the EKS cluster to be ready.

Launch your Cloud9 workspace

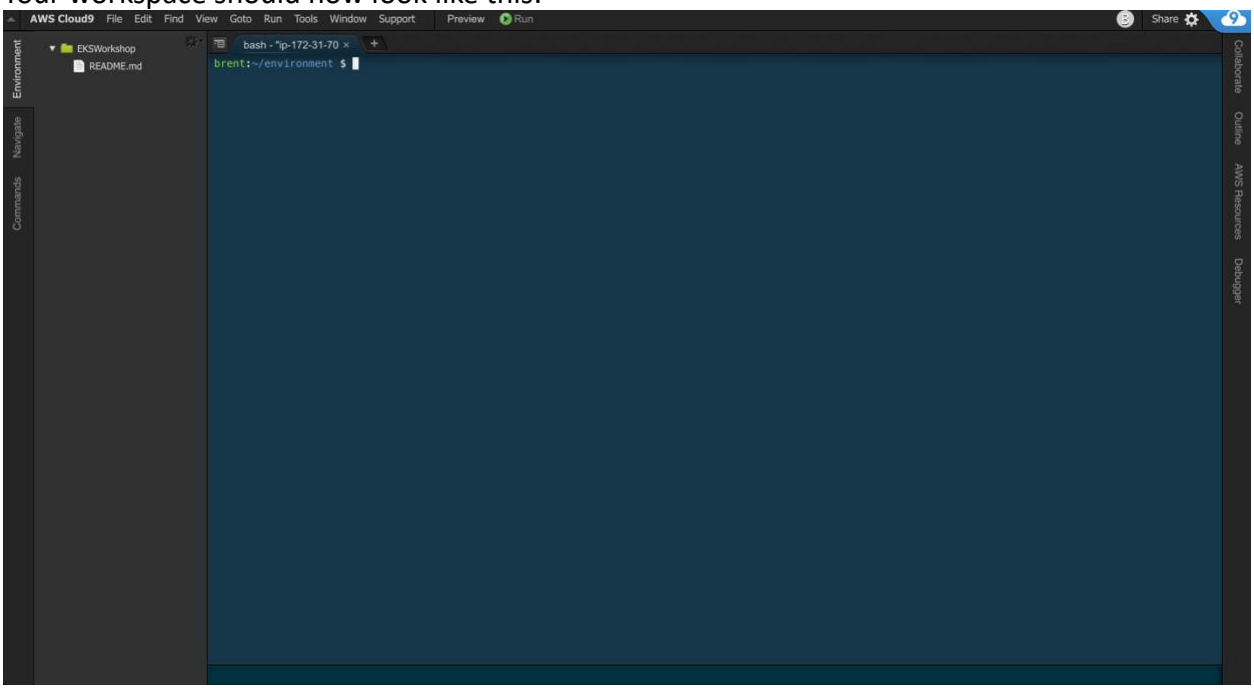
Note: Ad blockers, javascript disablers, and tracking blockers should be disabled for the cloud9 domain, or connecting to the workspace might be impacted. Cloud9 requires third-party-cookies. You can whitelist the specific domains.

- Navigate to the AWS Cloud9 console. Under **Environment**, click on the **Open** hyperlink for the environment listed.

- When it comes up, customize the environment by closing the **welcome tab** and **lower work area**, and opening a new **terminal** tab in the main work area:



- Your workspace should now look like this:



- If you like this theme, you can choose it yourself by selecting **View / Themes / Solarized / Solarized Dark** in the Cloud9 workspace menu.