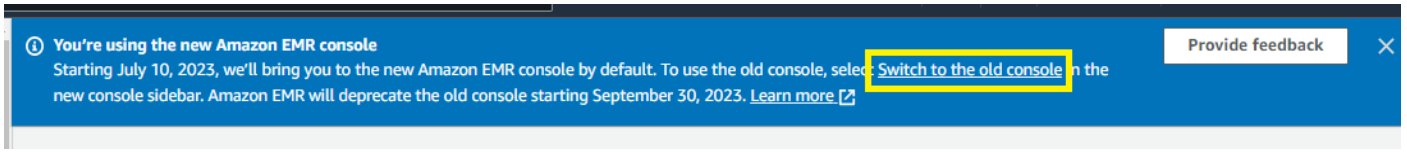
Important Note on Interface of EMR New VS Old Console

The following instructions detail the steps needed to work with EMR clusters using the new console.



The Amazon EMR console defaults to the new Amazon EMR console experience. If you want to go back to the old console, select '**Switch to the old console'** from the banner at the top of the console or from the side navigation and, you'll be redirected to the old EMR console.

To access the console, you may use the following links:
Old Console: https://us-east-1.console.aws.amazon.com/**elasticmapreduce**/home?region=us-east-1

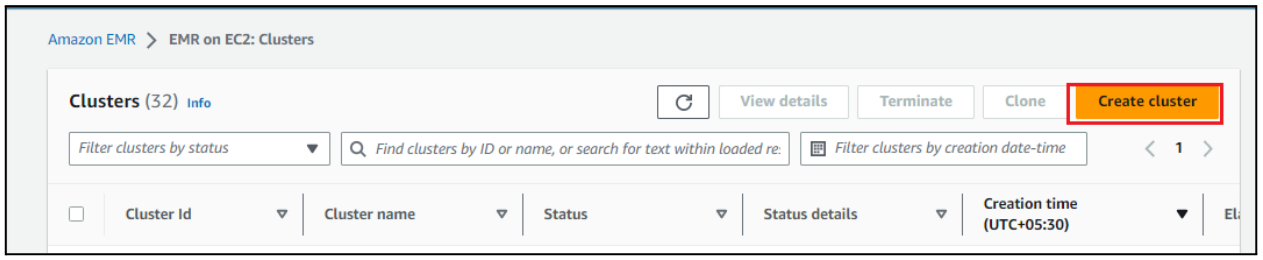
New Console: https://us-east-1.console.aws.amazon.com/**emr**/home?region=us-east-1

As you might note, the old console needs to have "**elasticmapreduce**" before "**/home?region=us-east-1**" in the link while the new console uses "**emr**".

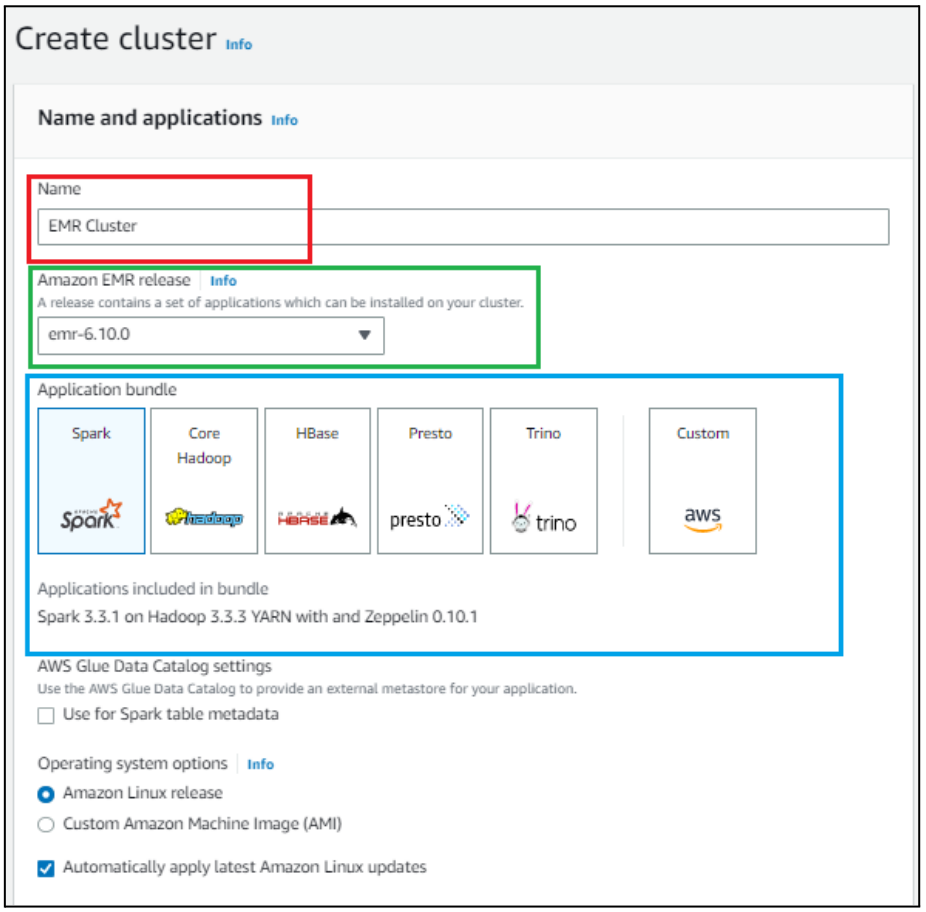
The steps to create an EMR cluster in the new console is detailed below.

EMR CLUSTER CREATION

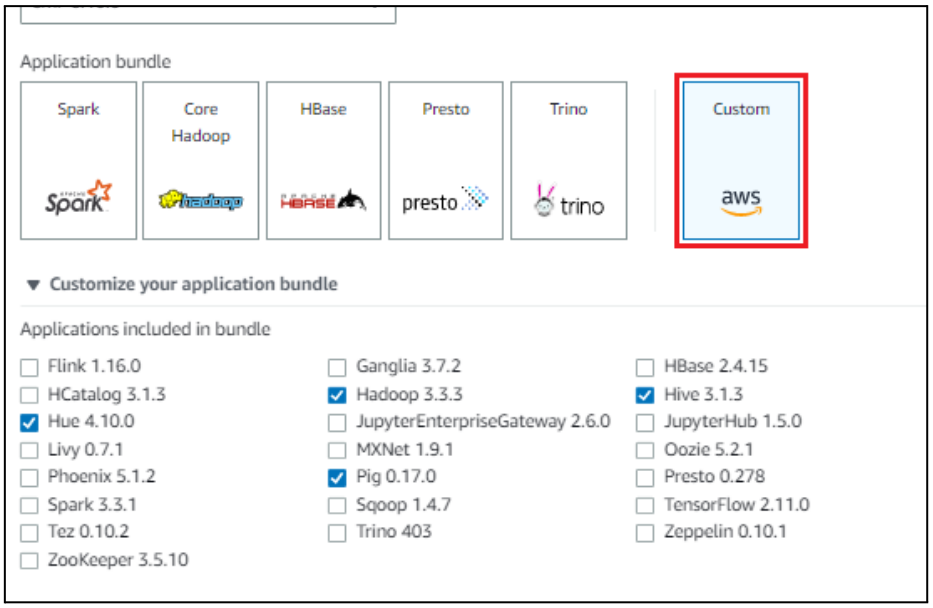
- You can access more information about the new console from this link. Click on the 'Create Cluster' button.



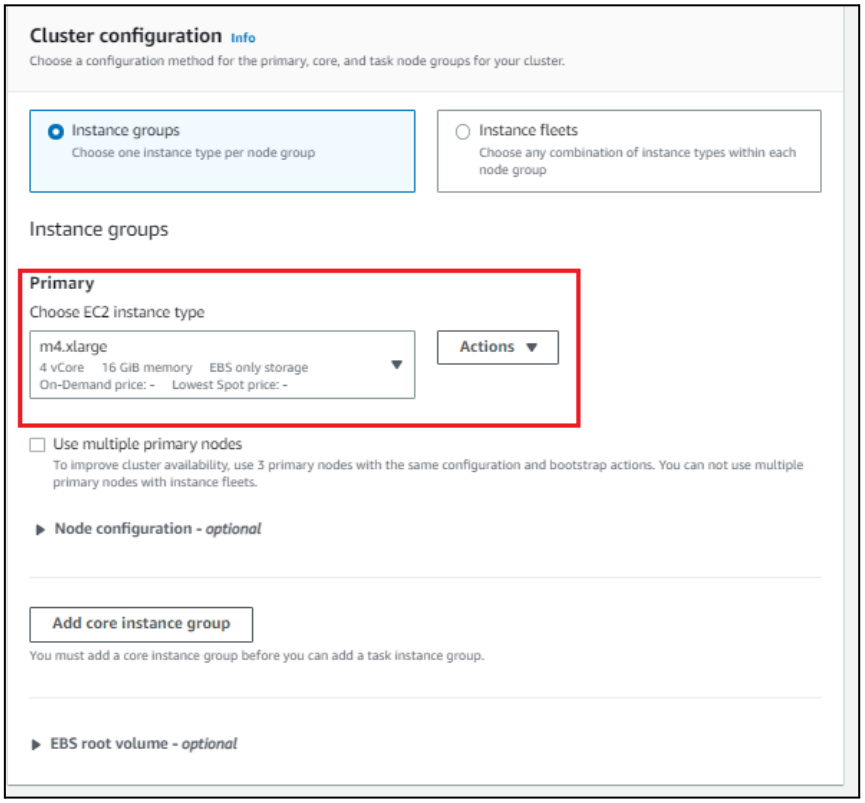
- Now enter the details for the Cluster name ,the EMR release/version, and the applications to be installed in the Cluster.



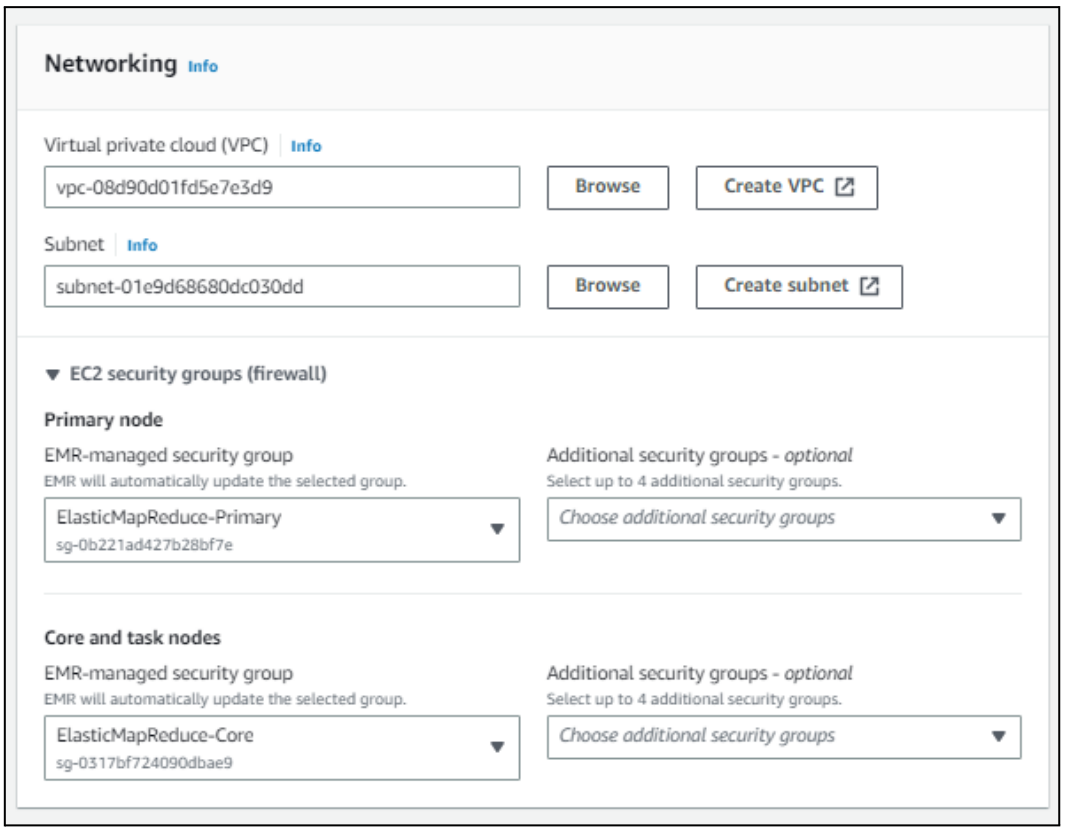
- Click on the Custom option to configure the tools needed for your cluster.



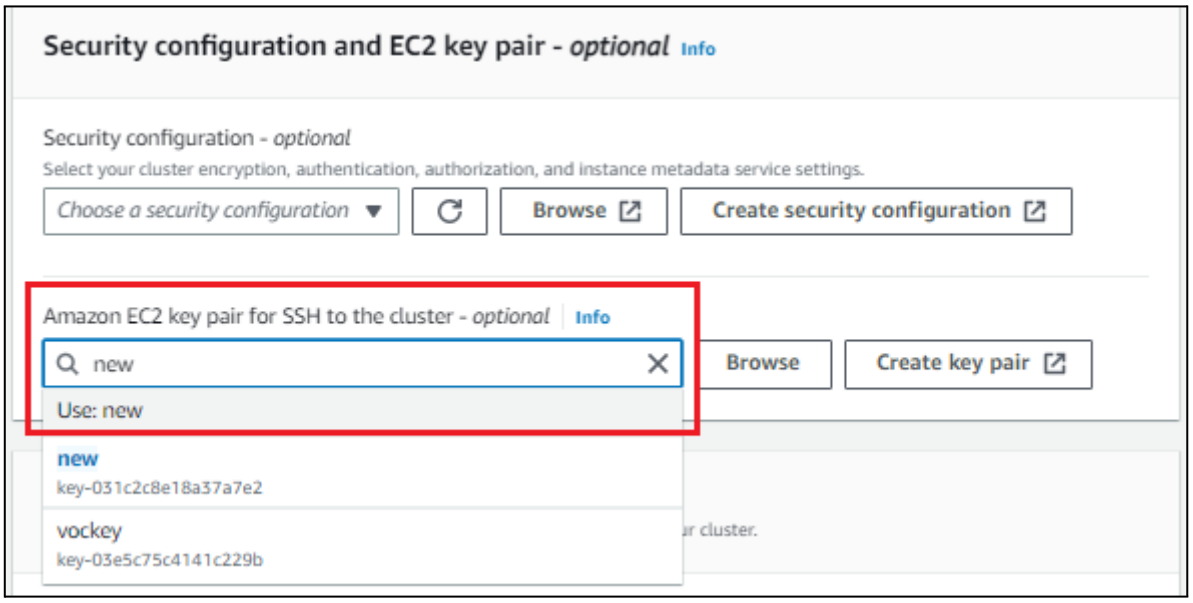
- Choose the configuration of the Cluster.



- In the next steps, you're required to configure the Networking settings for your EMR cluster. Select the pre-configured VPC, if any, or go with the defaults.



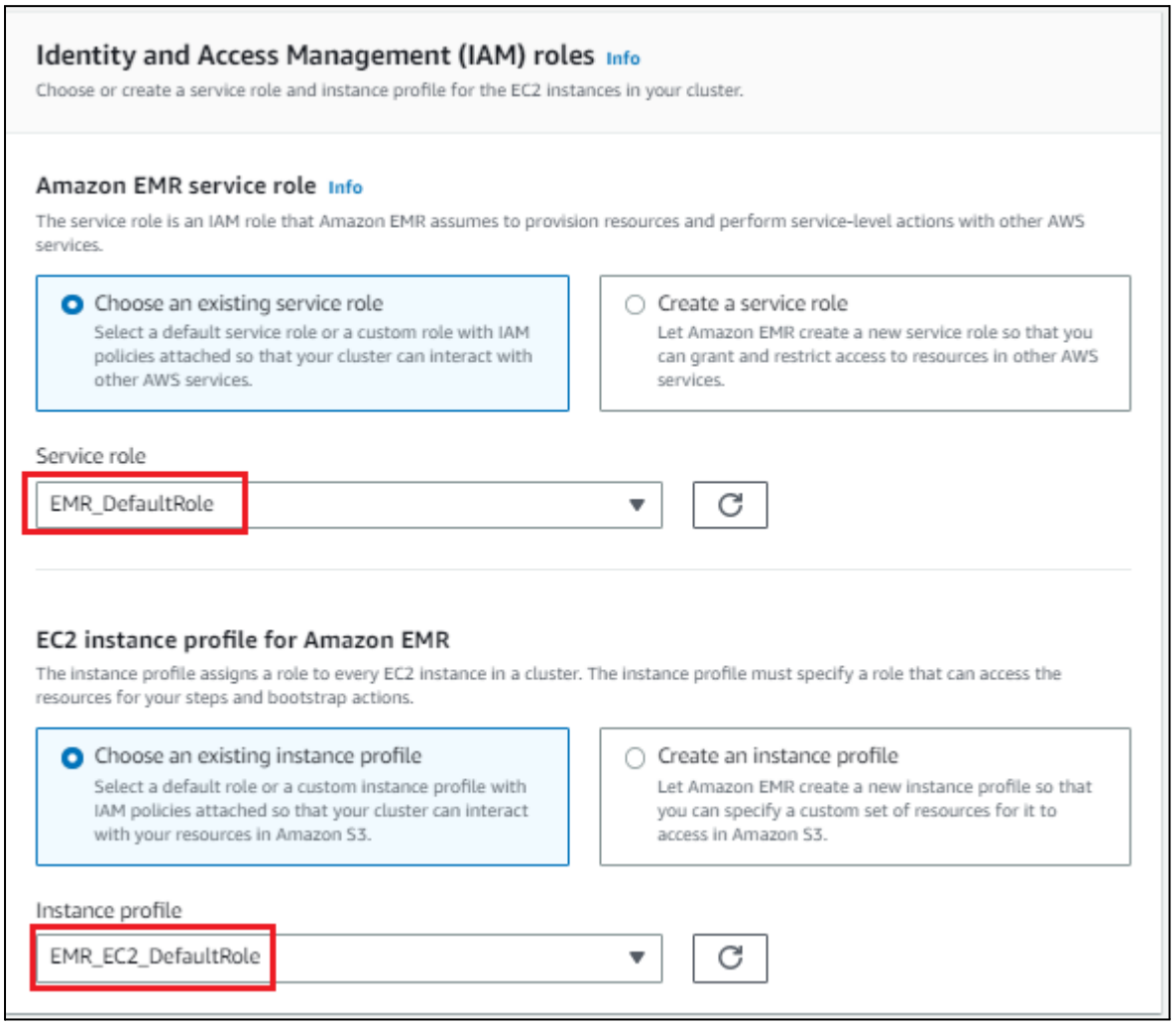
- In the security configuration tab, select the key pair values. If you don't have any key pairs available, click on the "Create key pair" button.



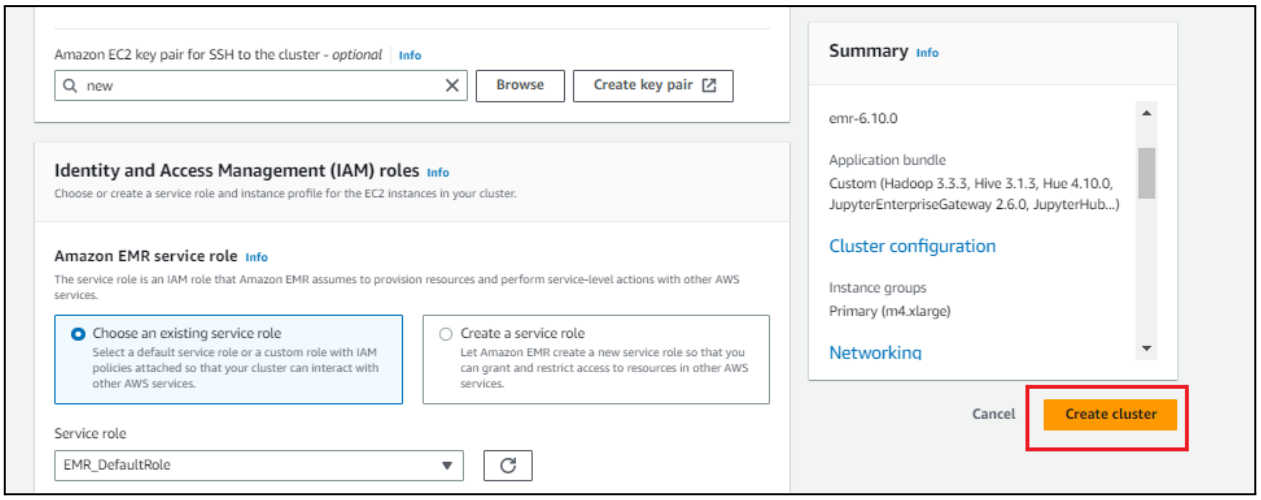
- In the IAM roles settings, use the following IAM roles

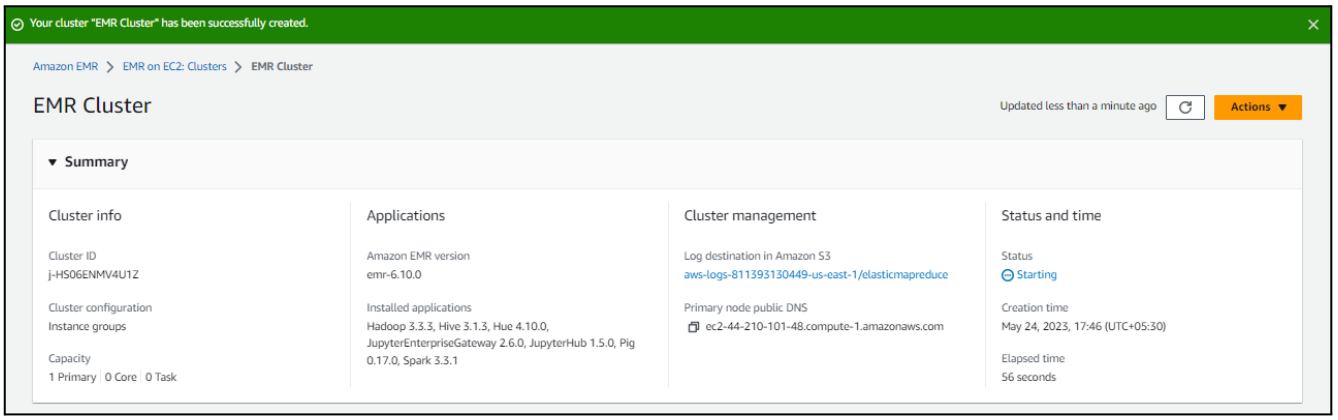
Service role: EMR_DefaultRole

EC2 Instance profil for Amazon EMR: EMR_EC2_DefaultRole



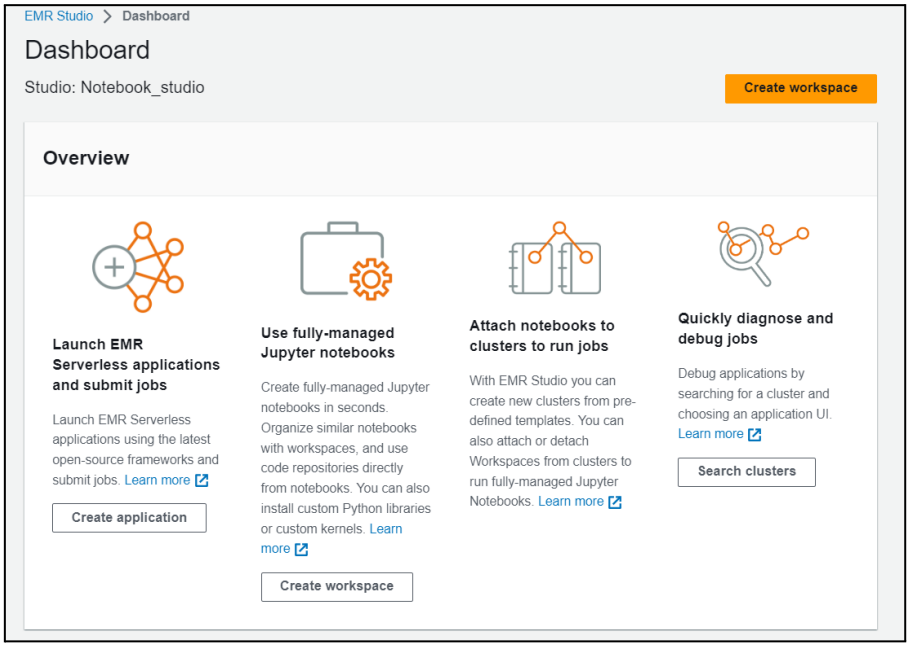
- Click on the “Create Cluster” button once the selected configuration is complete.



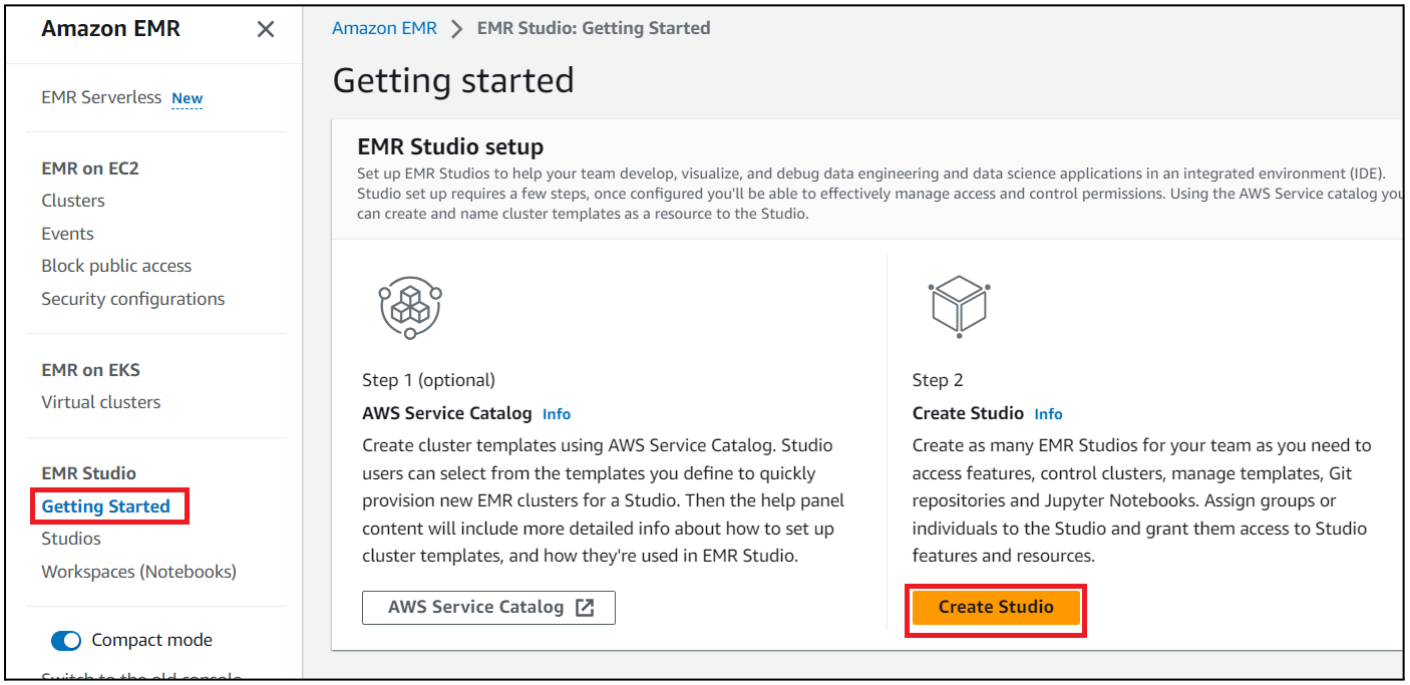


EMR Notebooks

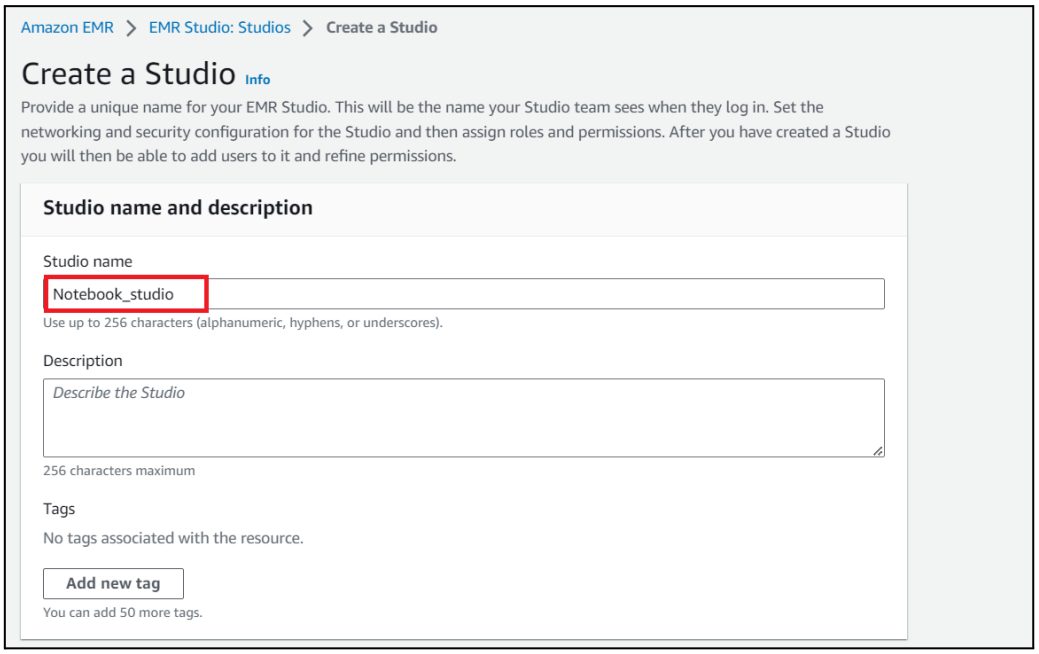
In the new console, EMR Notebooks functionality has been replaced with EMR Studio which allows kernels and applications to run on EMR clusters.



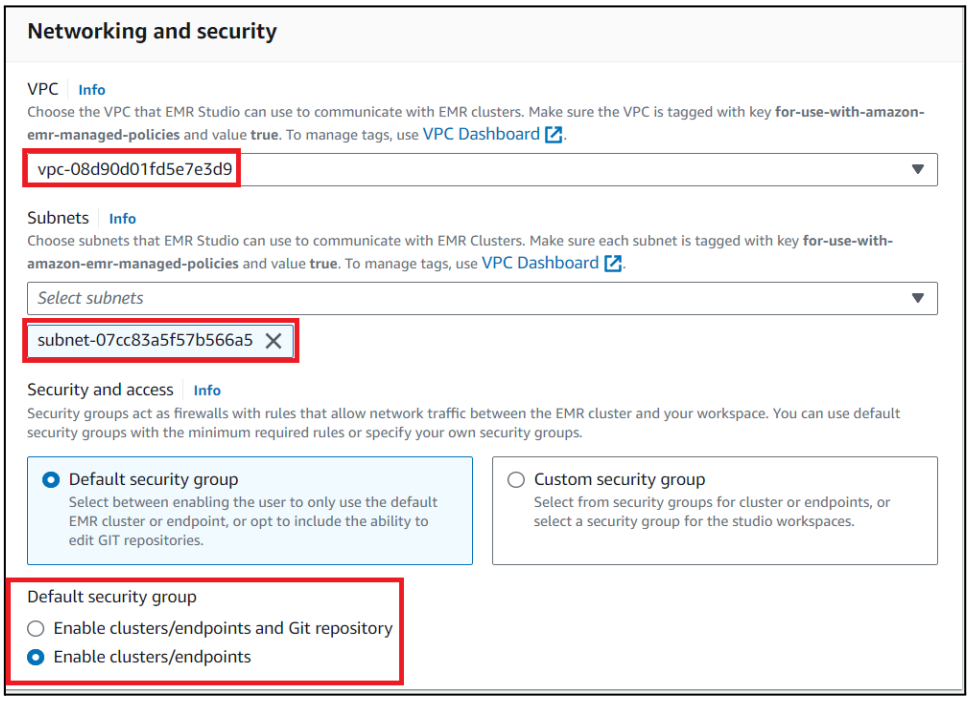
- To start with EMR Studio, click on the 'Create Studio' button in the 'EMR Studio' page.



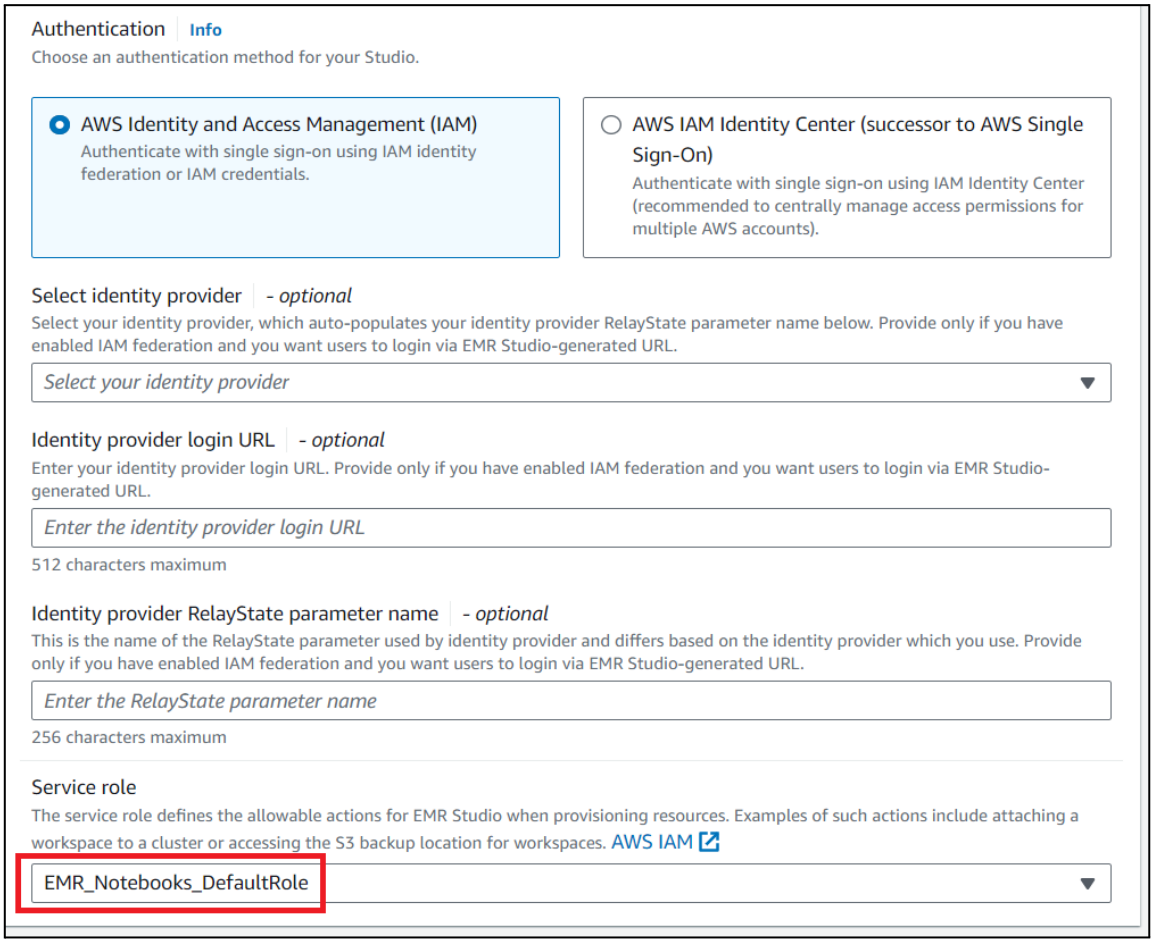
- Enter the name for the EMR Studio.



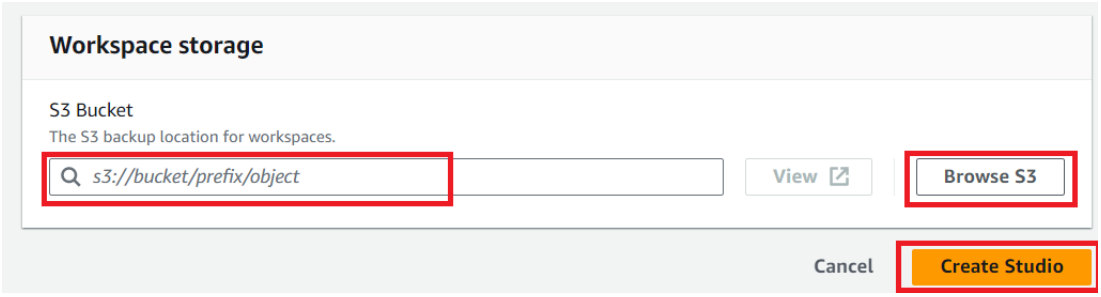
- In the **Networking and Security** tab, select the VPC and subnet configurations for the EMR studio. If it's not showing up, create VPC and subnets by following the steps in the documentations available in the 'Introduction to Cloud' module.



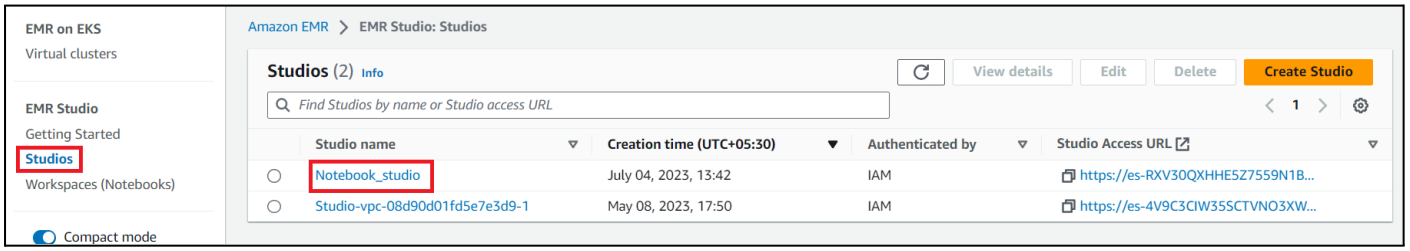
- In the Authentication setting, select 'AWS Identity and Access Management (IAM)' option and Service role as 'EMR_Notebooks_DefaultRole'



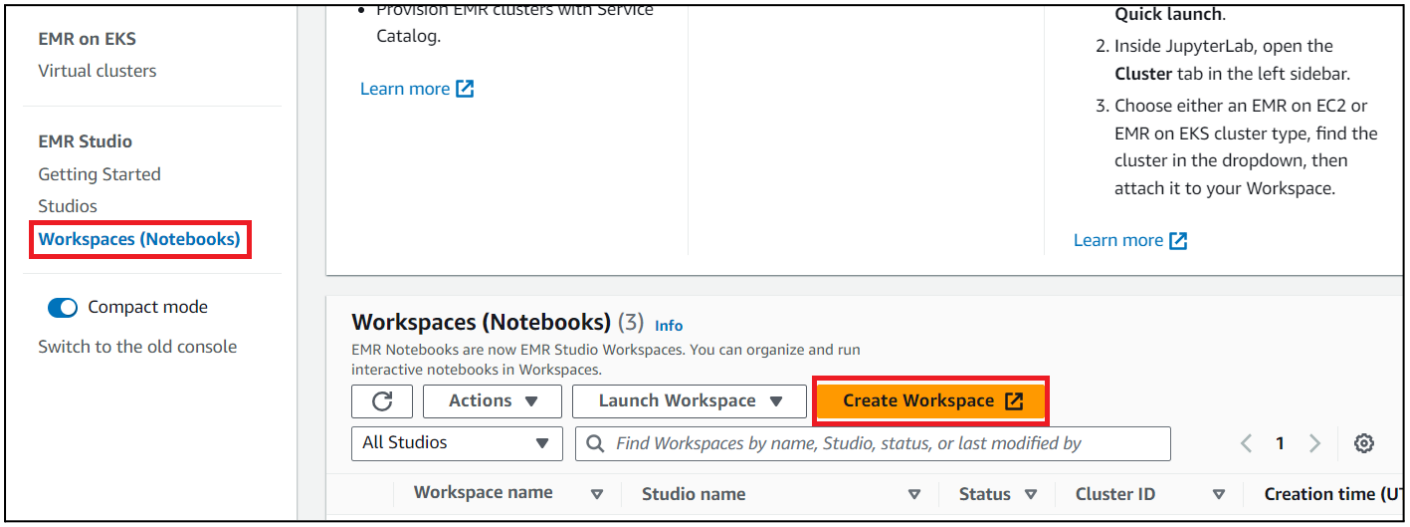
- In the Workspace storage setting, choose the S3 location and click on the **'Create Studio'** button.



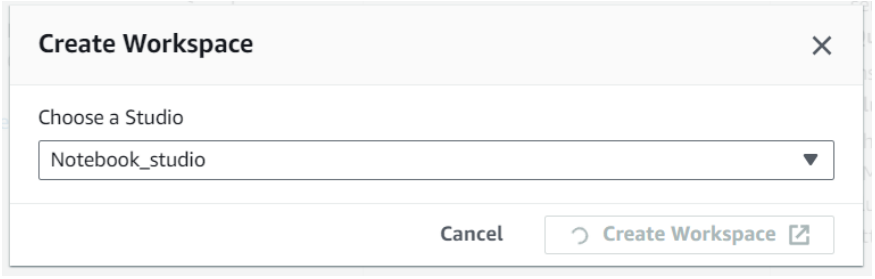
- The EMR Studio should shortly be created.



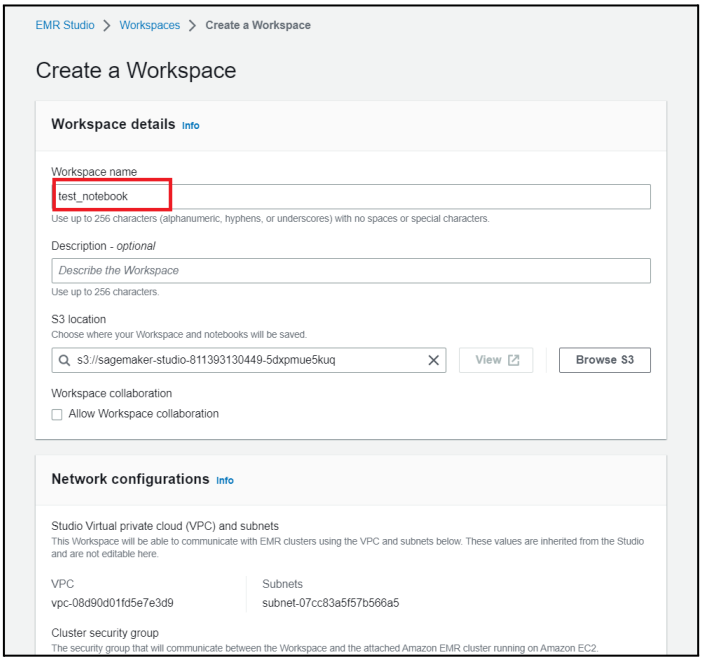
- Once the studio has been successfully created, click on the Workspaces(Notebook) option and click on the 'Create Workspace' button in the page.



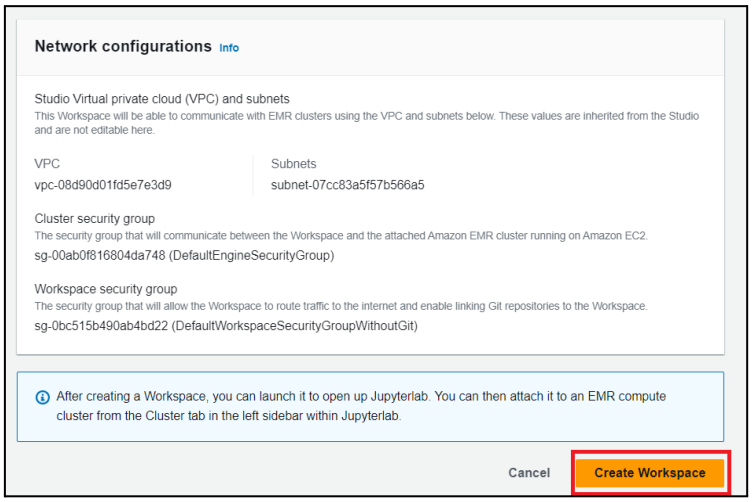
- Select the Workspace Studio you've created.



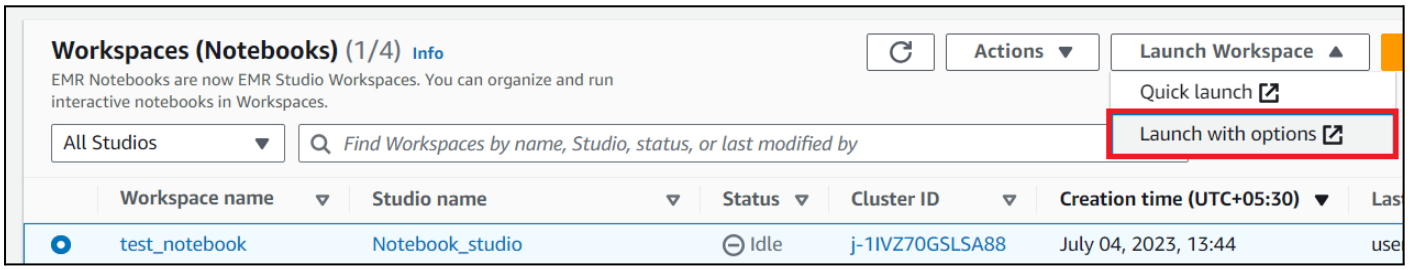
- Enter the name of the Workspace in the space provided. The rest of the settings will be automatically populated from the settings provided in the Studio.



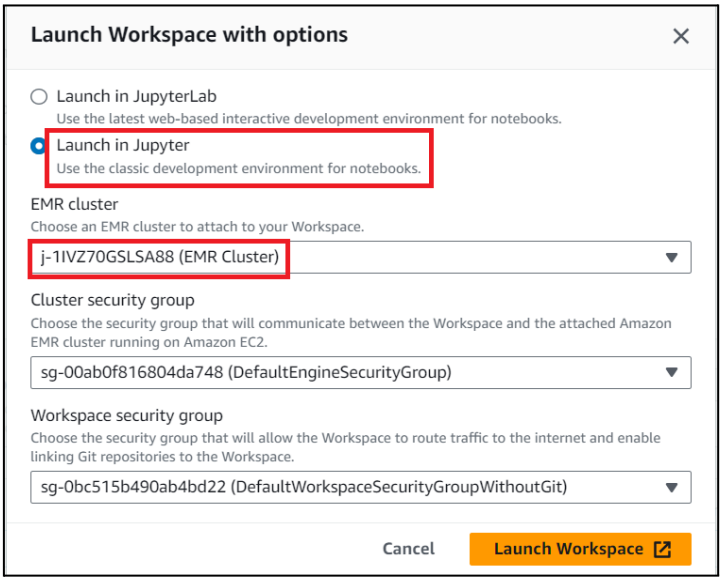
- Click on the ‘Create Workspace’ button to provision the workspace.



- Once the workspace is created, stop the workspace by clicking on the ‘Actions’ button and clicking on ‘Stop’. Click on ‘Launch Workspace’ and then ‘Launch with options’.



- Select ‘Launch in Jupyter’ and the cluster id of the EMR cluster in the setting and click on ‘Launch Workspace’ button.



- The workspace will start shortly and a new jupyter page will appear.