lab

lab title

Encryption on AWS

V1.00

Course title

BackSpace Academy
AWS Certified Associate

BackSpace

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About the Lab

Please note that not all AWS services are supported in all regions. Please use the US-East-1 (North Virginia) region for this lab.

These lab notes are to support the hands on instructional videos of the Key Management Service (KMS) section of the AWS Certified Associate Course.

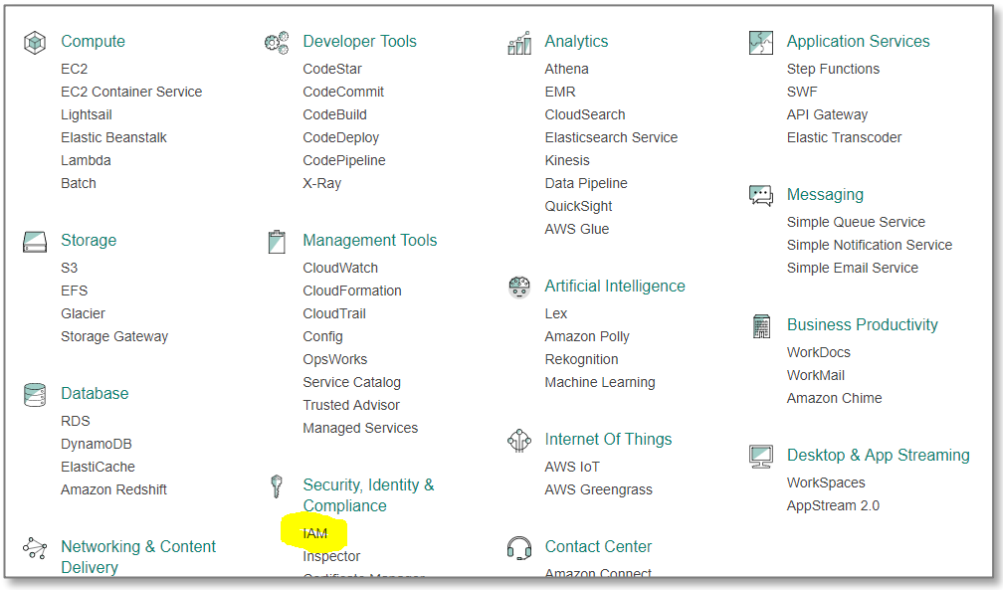
Please note that AWS services change on a weekly basis and it is extremely important you check the version number on this document to ensure you have the lastest version with any updates or corrections.

Creating an Encryption Key

In this section, we will use the Key Management Service (KMS) to create an encryption key to use with AWS services.

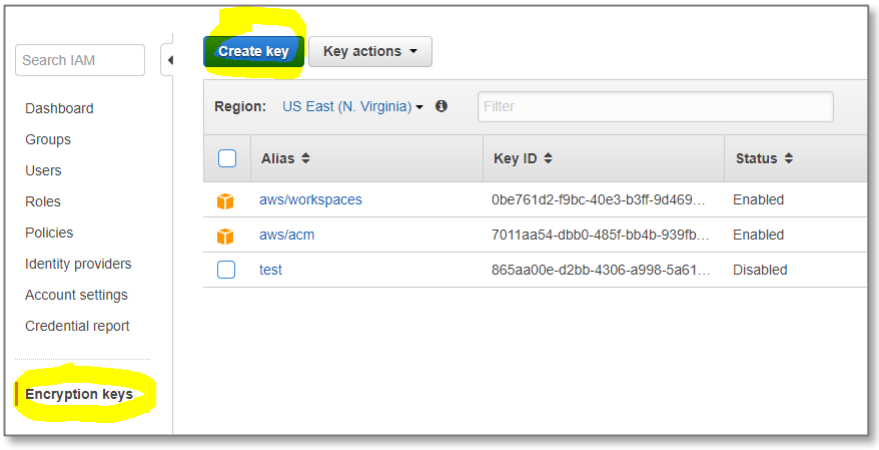
From the AWS console click “Services”

Select “IAM” from the Security, Identity & Compliance services.



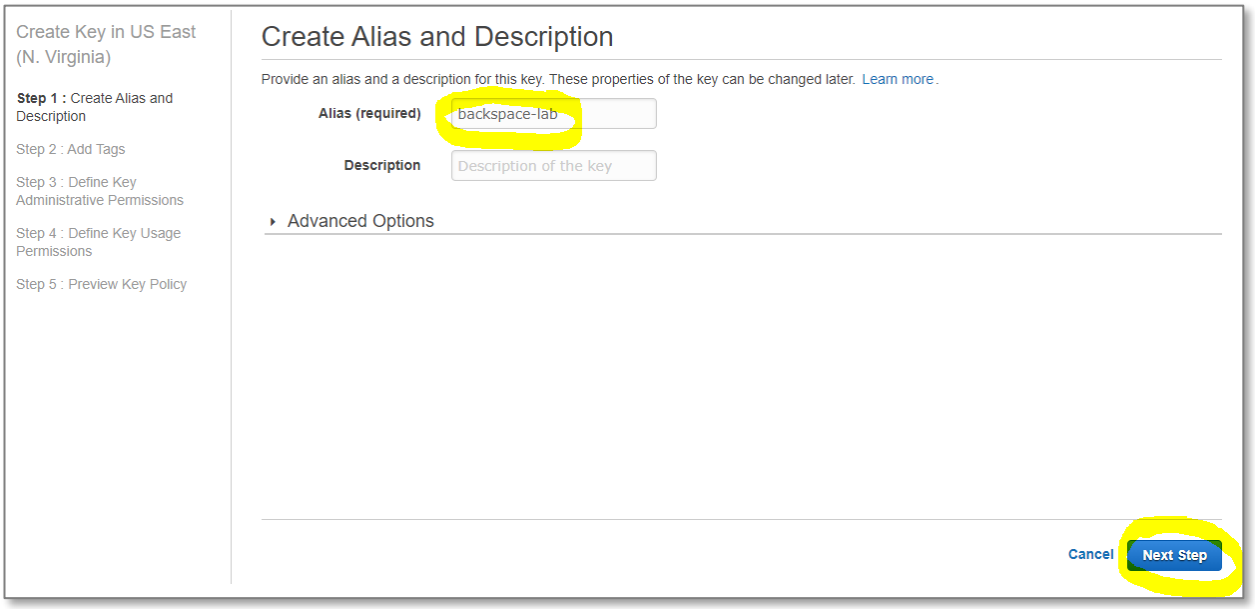
Select *Encryption keys*

Click *Create key*



Give your key a name

Click *Next step*

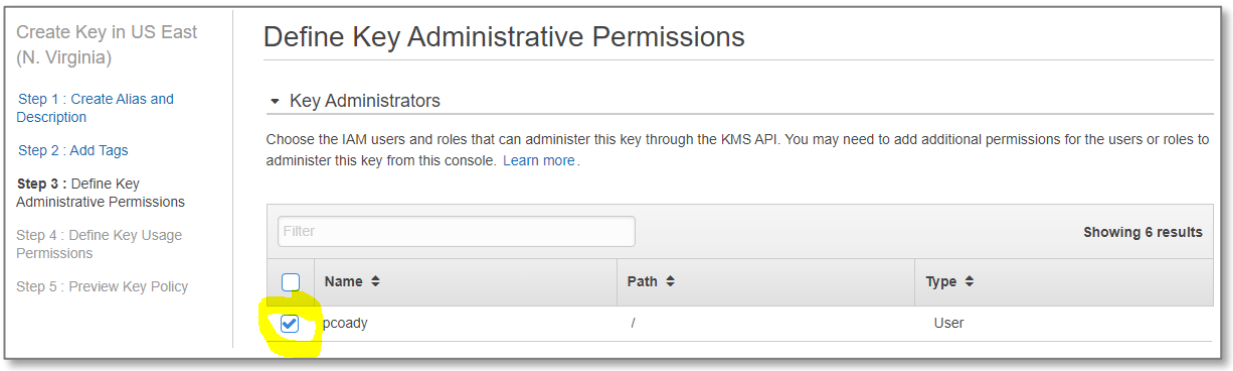


Leave Tags as is

Click *Next step*

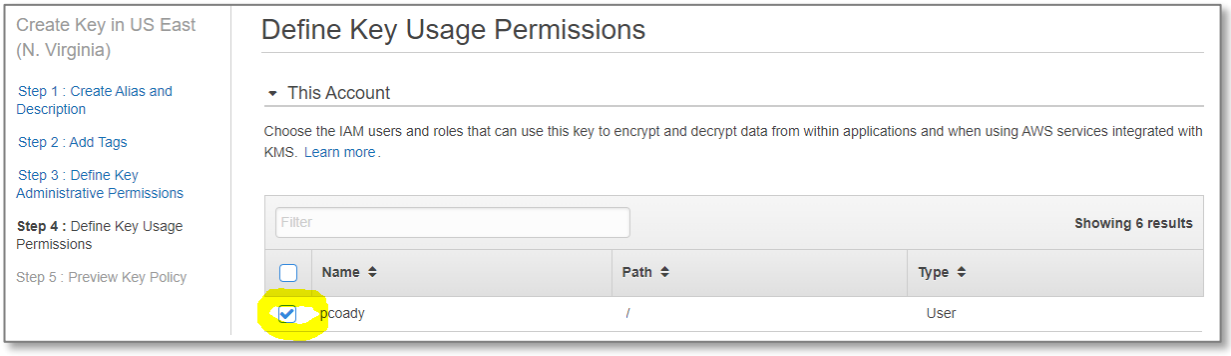
Select users that will have permission to administer the key.

Click *Next step*

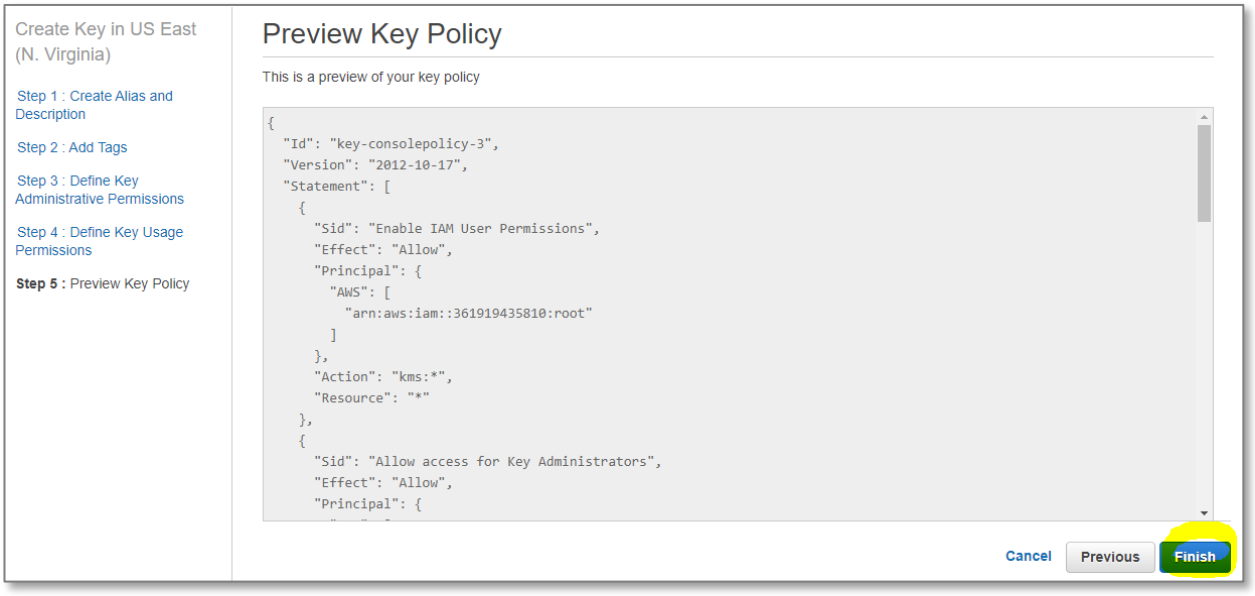


Select users that will have permission to use the key.

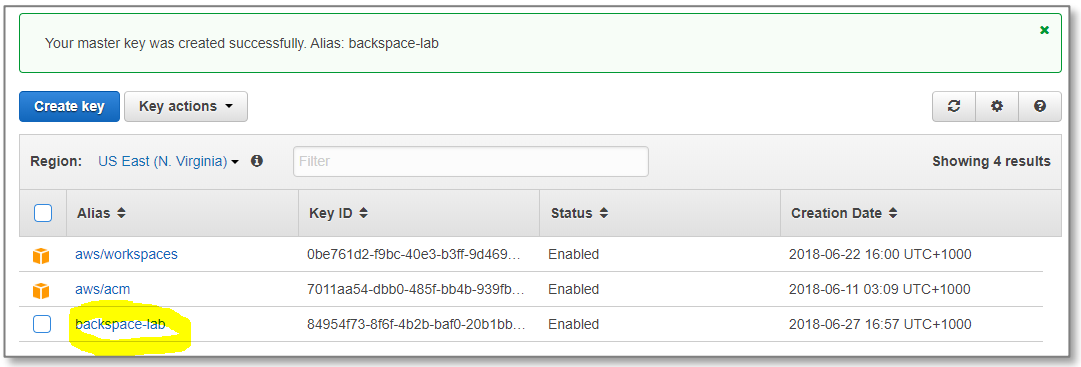
Click *Next step*



Click *Finish*



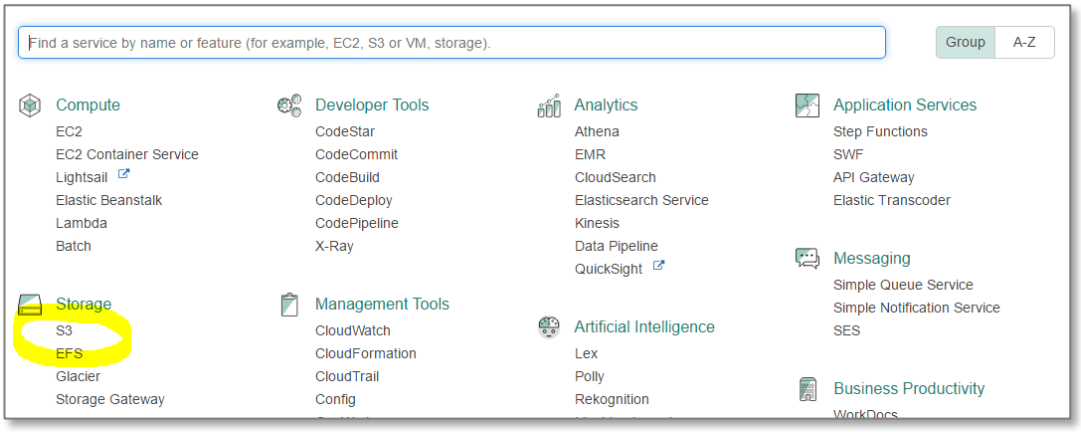
You key has been created



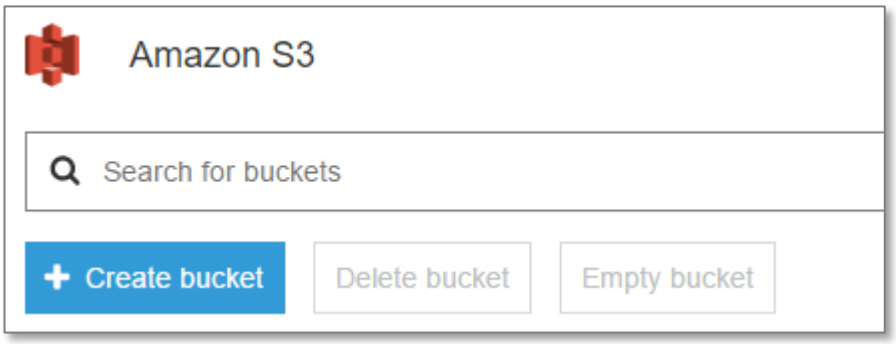
Using Encryption Keys with Amazon S3

In this section, we will use the key we created to automatically encrypt objects in a bucket.

Click on the services menu and select S3.



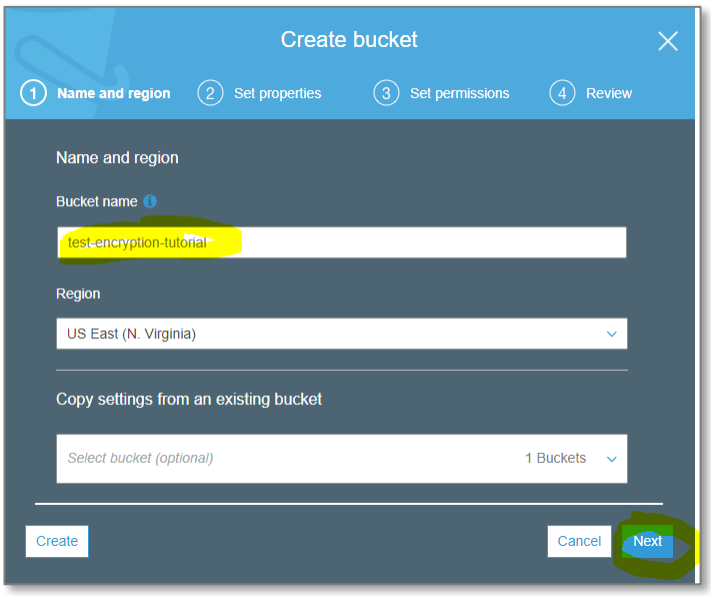
Click on Create Bucket



The create bucket dialog box will appear.

Enter a unique name for your bucket (it will need to different from the one below)

Click “Next”

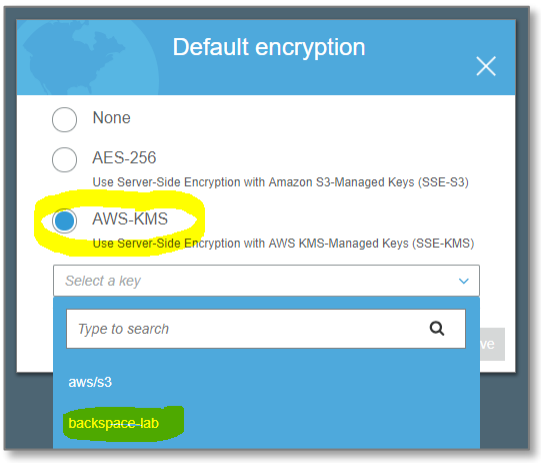


Scroll down and click on *Default encryption*

Select *AWS-KMS*

Select the key you created from the drop down list

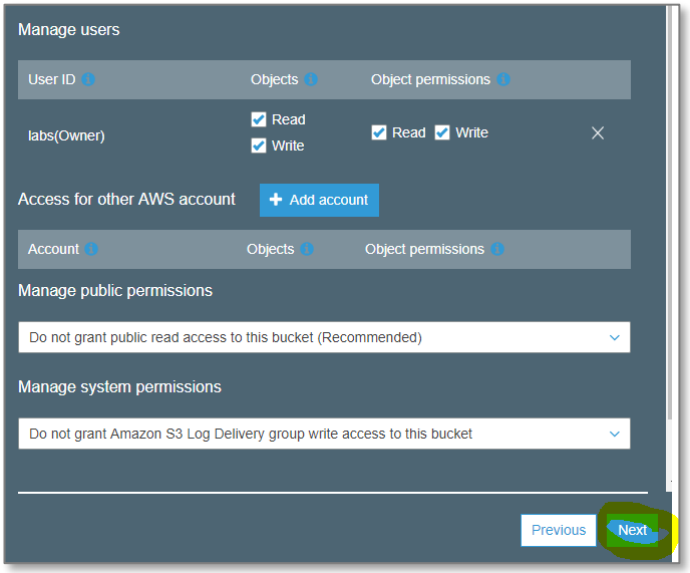
Click *Save*



Click *Next*

Leave permissions as private

Click *Next*

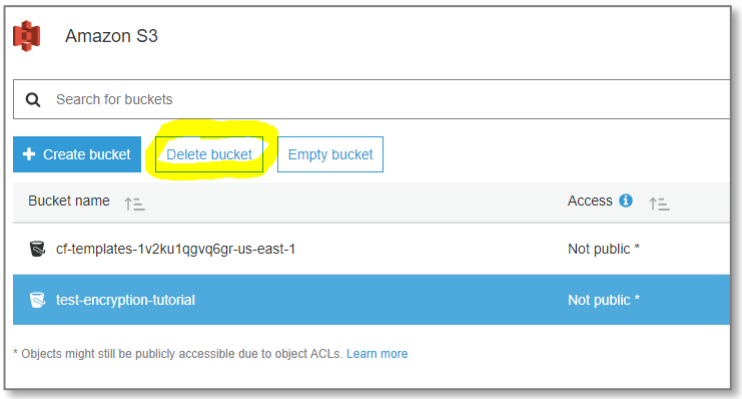


Click *Create bucket*

Now any objects uploaded to this bucket will automatically be encrypted. Any objects downloaded from S3 will be automatically decrypted.

Clean Up

Delete the bucket from the S3 management console



Schedule key deletion from the IAM console