









lab title

Intro to AWS CloudFormation V1.01



**Course title** 

BackSpace Academy AWS Certification Preparation



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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 CloudFormation section of the AWS Certified Cloud Practitioner 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.

## Deploying a CloudFormation Stack

In this section, we will use the CloudFormation service to create a stack to launch a LAMP (Linux Apache MySQL PHP) environment on EC2.

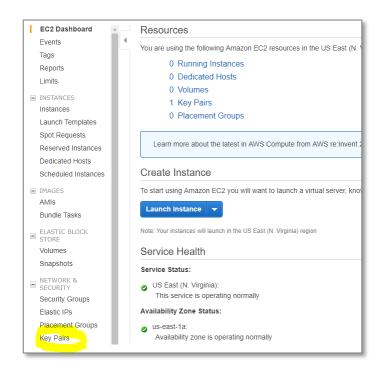
Creating an EC2 Encryption Key Pair

An EC2 encryption key pair is used to connect to the Linux operating system of an EC2 instance. If we have not already created and downloaded an EC2 previously we will need to create one.

From the AWS console click Services

Select EC2

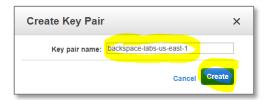
### Select Key Pairs



### Click Create Key Pair



Give the Key Pair a name



Your Key file (.pem) should now be downloading

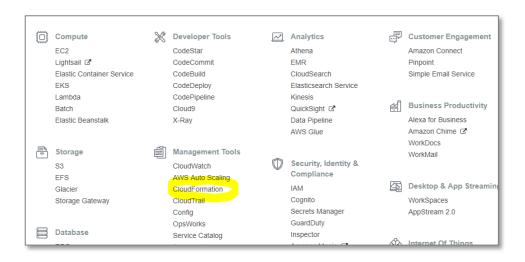


Make sure you store your PEM file somewhere safe. If you lose it you will not able to connect to instances that use that key pair.

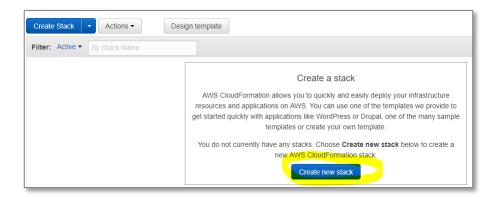
## Creating a CloudFormation Stack

From the AWS console click Services

Select CloudFormation from the Management Tools services.

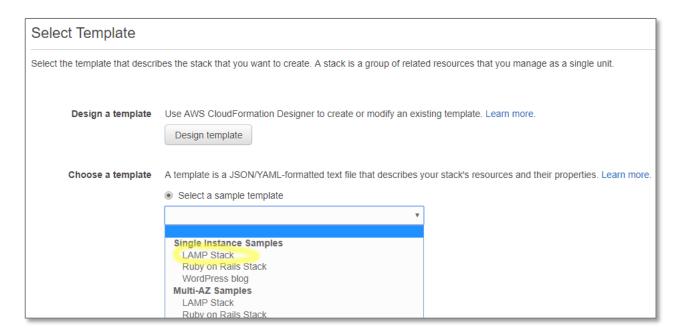


Click Create new stack

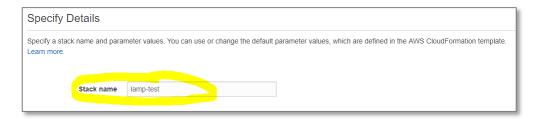


## Select Single Instance Samples - LAMP Stack

#### Click Next



### Give your stack a name



Give your database as name

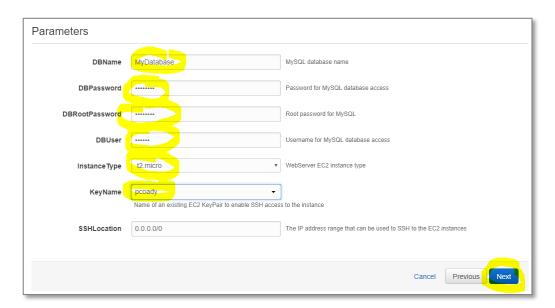
Enter passwords for DB and DB root access (alphanumeric only)

Enter a DB username

Select the t2.micro instance type for the free tier

Select an EC2 key pair

## Click Next

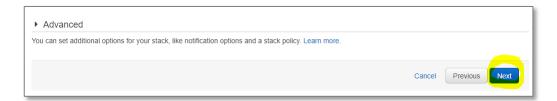


## Enter a Name tag (make sure capital N)

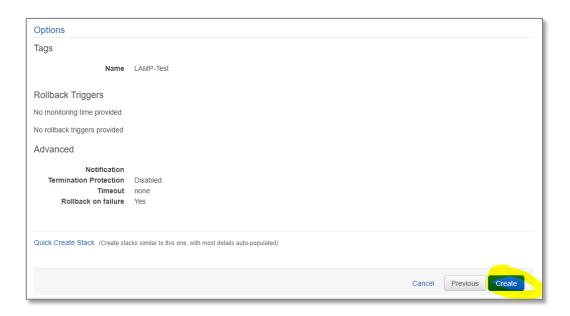


## Leave other options as default

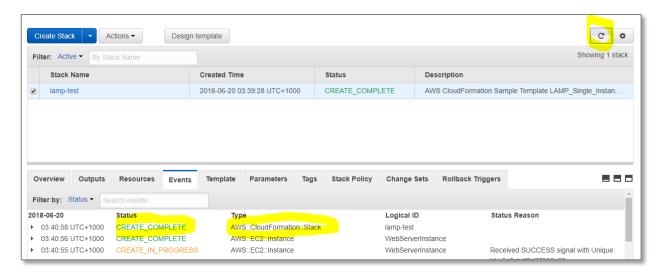
### Click Next



#### Click Create

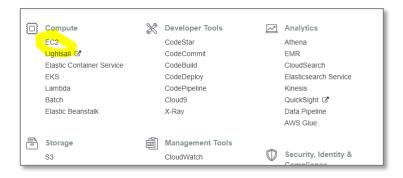


### Click refresh icon until the stack creation has completed



## From the AWS console click Services

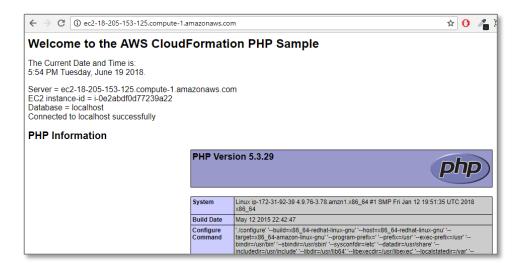
Select EC2 from the Compute services.



#### Select Instances

## Copy either the Public DNS or Public IP

## Paste into a browser to view the application

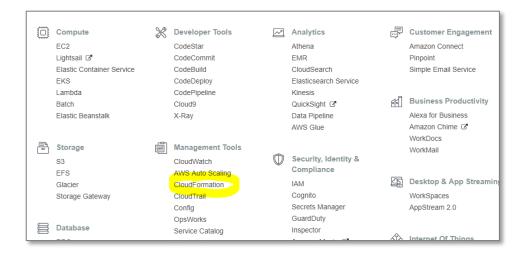


# Deleting a CloudFormation Stack

In this section, we will use the CloudFormation service to delete a stack to delete its resources.

From the AWS console click Services

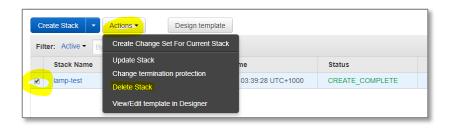
Select CloudFormation from the Management Tools services.



Select the stack

Click Actions

Select Delete Stack



Click "Yes, Delete"



You can check the status of the delete by clicking the refresh icon

