

Welcome to INTERNSHIP STUDIO

Module 01 | Lesson 01

Introduction to DevOps

Learning Outcomes

Topic	No. of Hours
Introduction to DevOps	1
Linux	3
Maven	3
GIT & GITHUB	4
Tomcat	1
Jenkins	3
Project	1
Total Hours	16

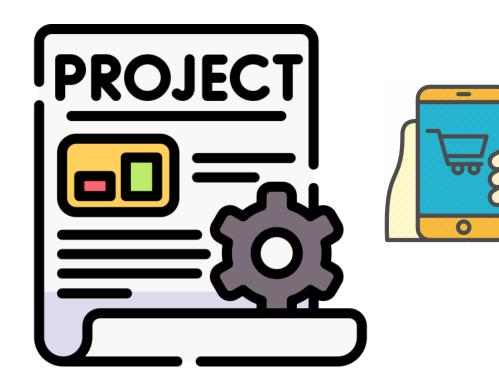
Introduction

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SDLC



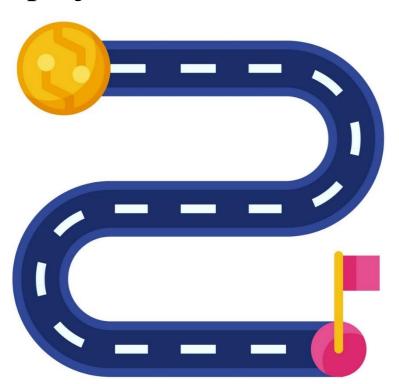
Software Development Life Cycle

It refers to a methodology with clearly defined processes for creating high-quality software projects.

Is a series of stages a software passes through during its lifetime.

It offers us an overview of what it takes to create software.









Phases of SDLC:















SDLC Methodologies

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- 1. Waterfall Model
- 2. Iterative Model
- 3. V-Model (Verification and Validation Model)
- 4. Spiral Model
- 5. Agile Model
- 6. Scrum
- 7. Kanban

SDLC Methodologies



1. Waterfall Model

- 2. Iterative Model
- 3. V-Model (Verification and Validation Model)
- 4. Spiral Model

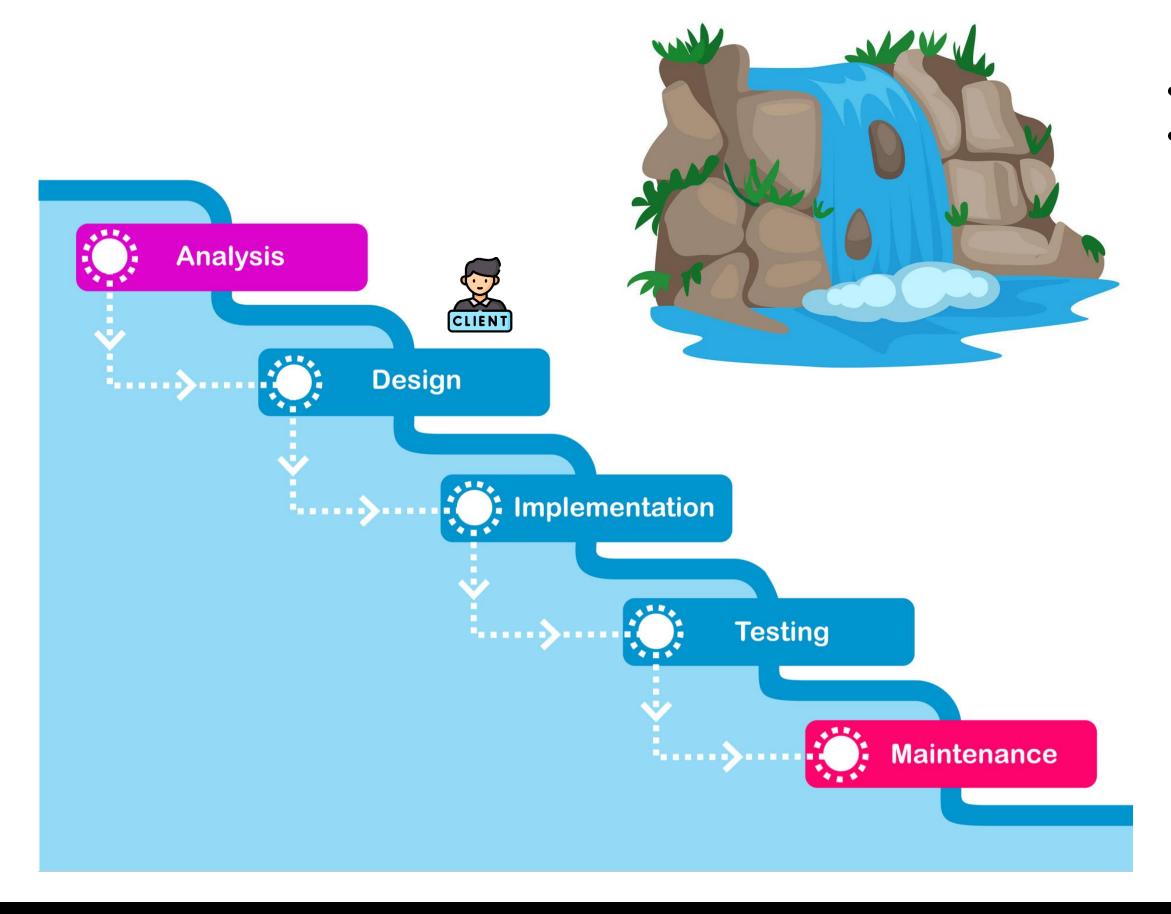
5. Agile Model

- 6. Scrum
- 7. Kanban

Note: DevOps doesn't belong to SDLC models.

Waterfall Model

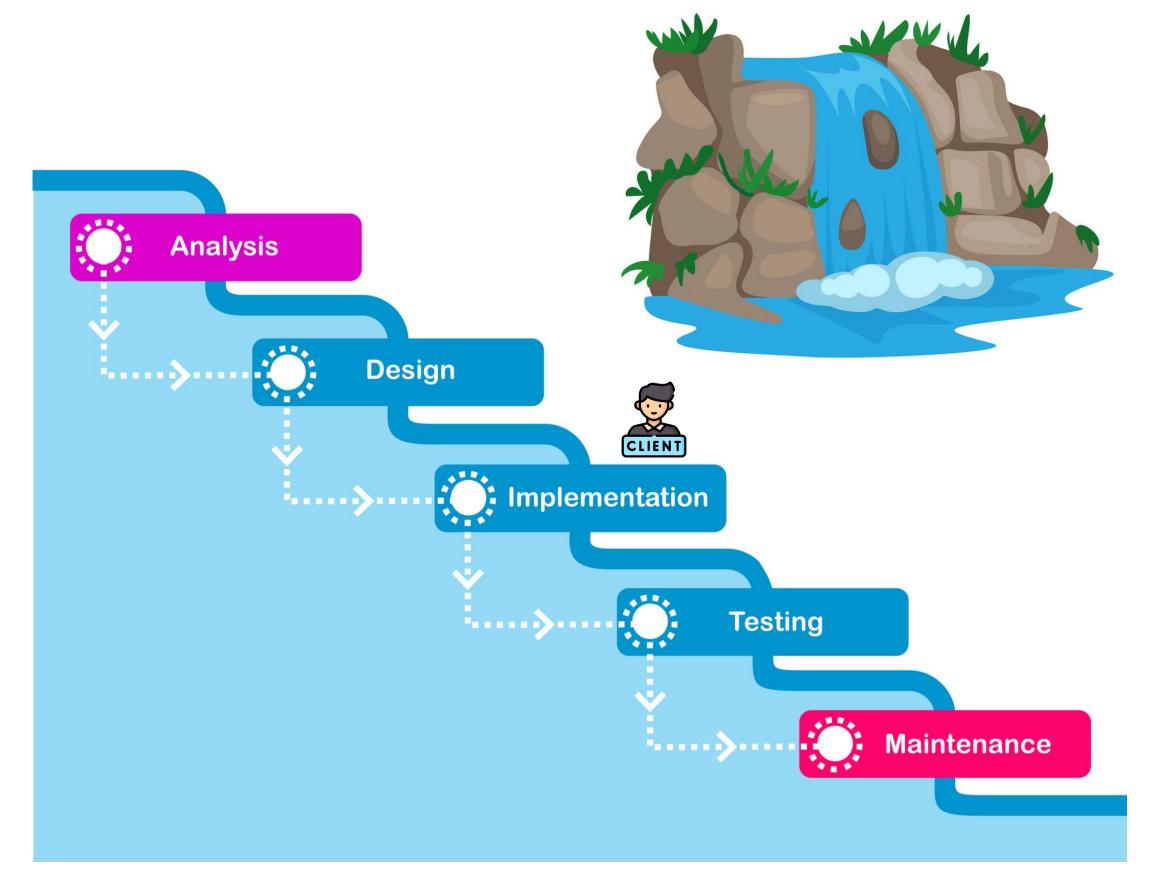




- It is a step-by-step process.
- Linear methodology.

Waterfall Model

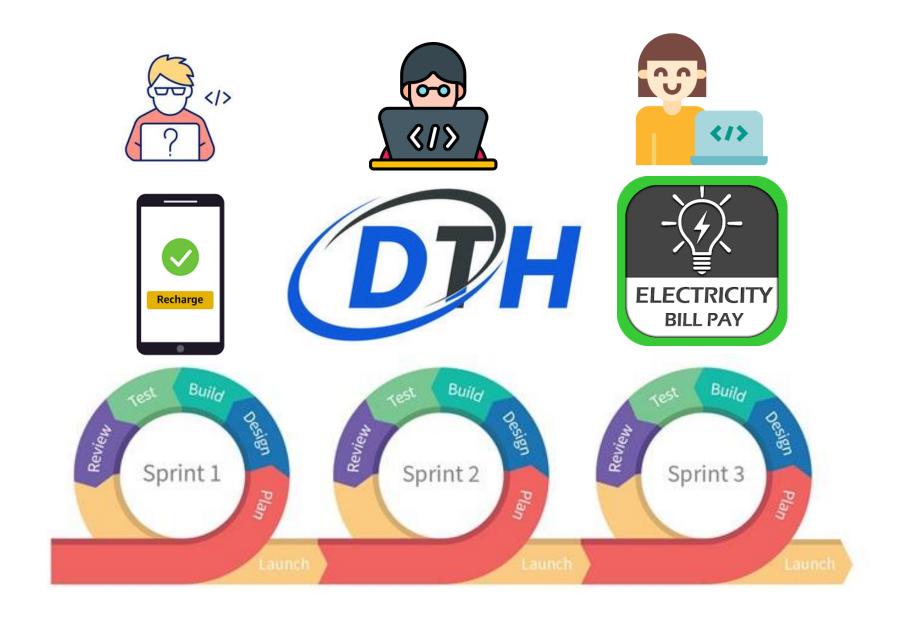


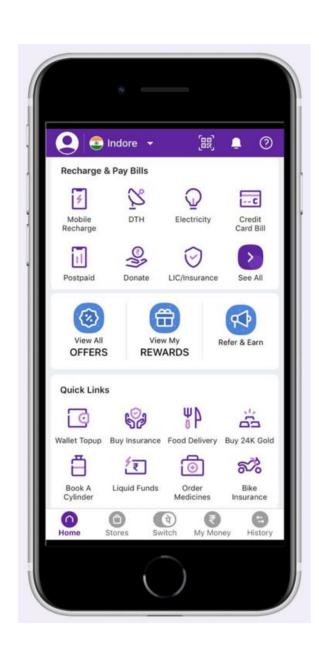


- It is a step-by-step process.
- Linear methodology.
- Oldest model.
- Requirements are fixed.
- Client involvement is very less
- Client can see the output of the project only after the deployment.
- Not suitable for large and complex projects.

Agile Model







It started in the year 2001. Invented by John Kern and Martin Fowler

Agile Model

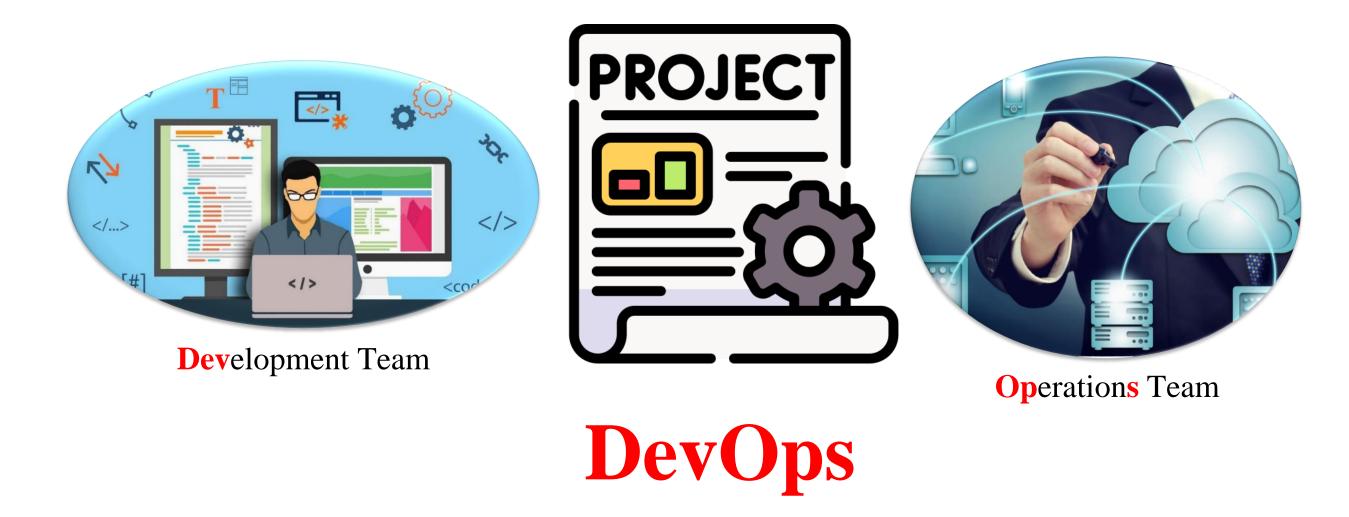


- Breaks the project into sprints Iterative approach
- Requirements are not fixed.
- Client involvement is very high.
- Client feedback at the end of each sprint.
- Incremental development.

DevOps

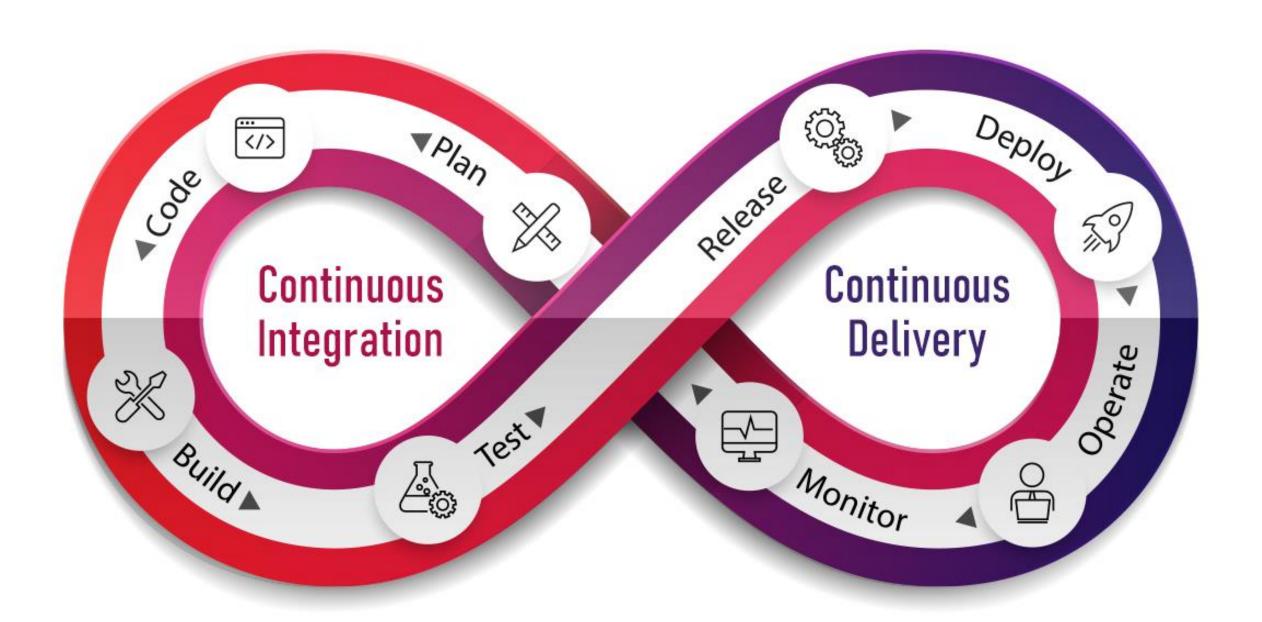


It refers to a **collaborative** approach to make the **Application Development team** and the **IT Operations team** of an organization to seamlessly work with better communication.



DevOps Process





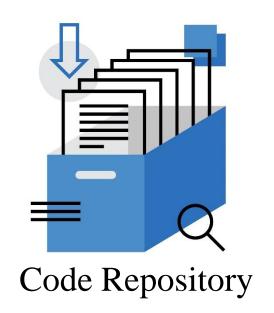
Activities of **Dev** Team





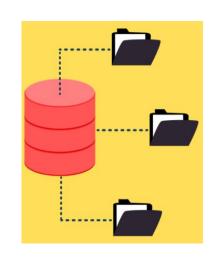






Activities of **Ops** Team





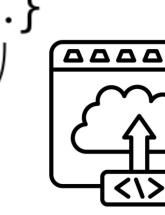
Code from Repo.



Setup the infrastructure



Package the code



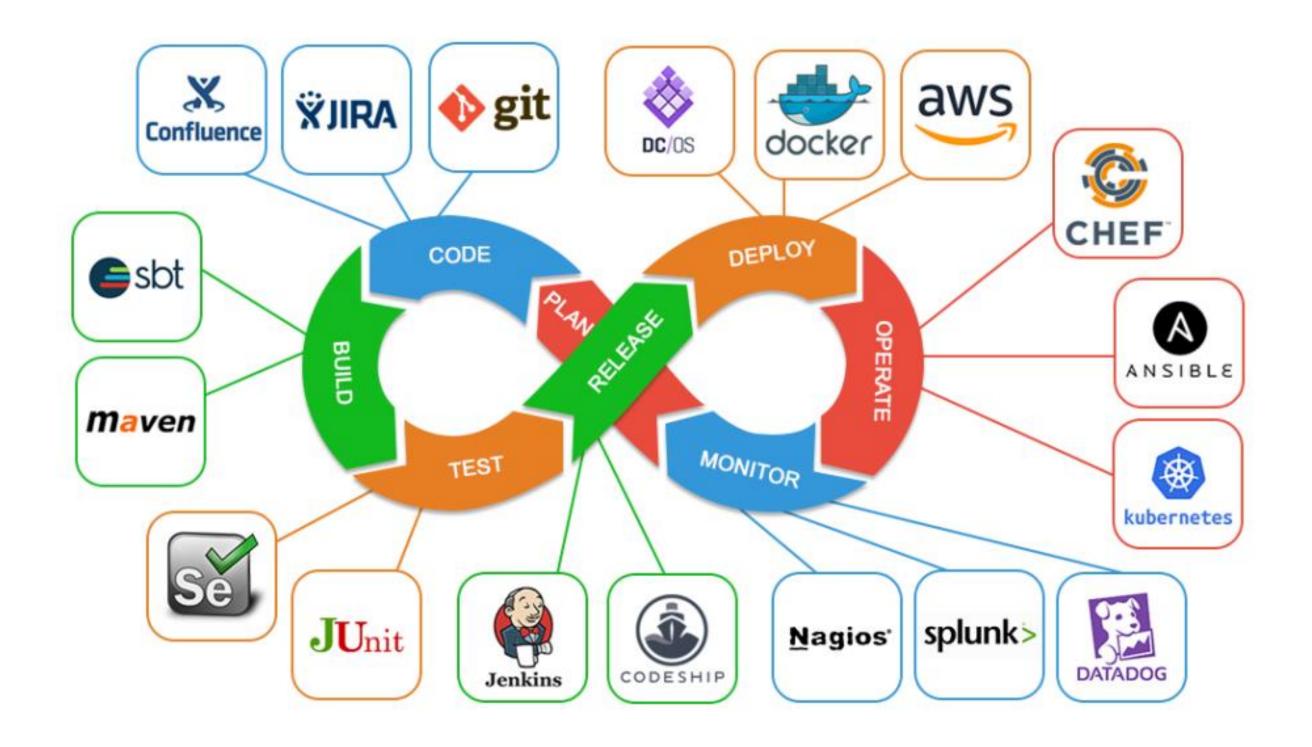
Deploy the code



Deliver the project

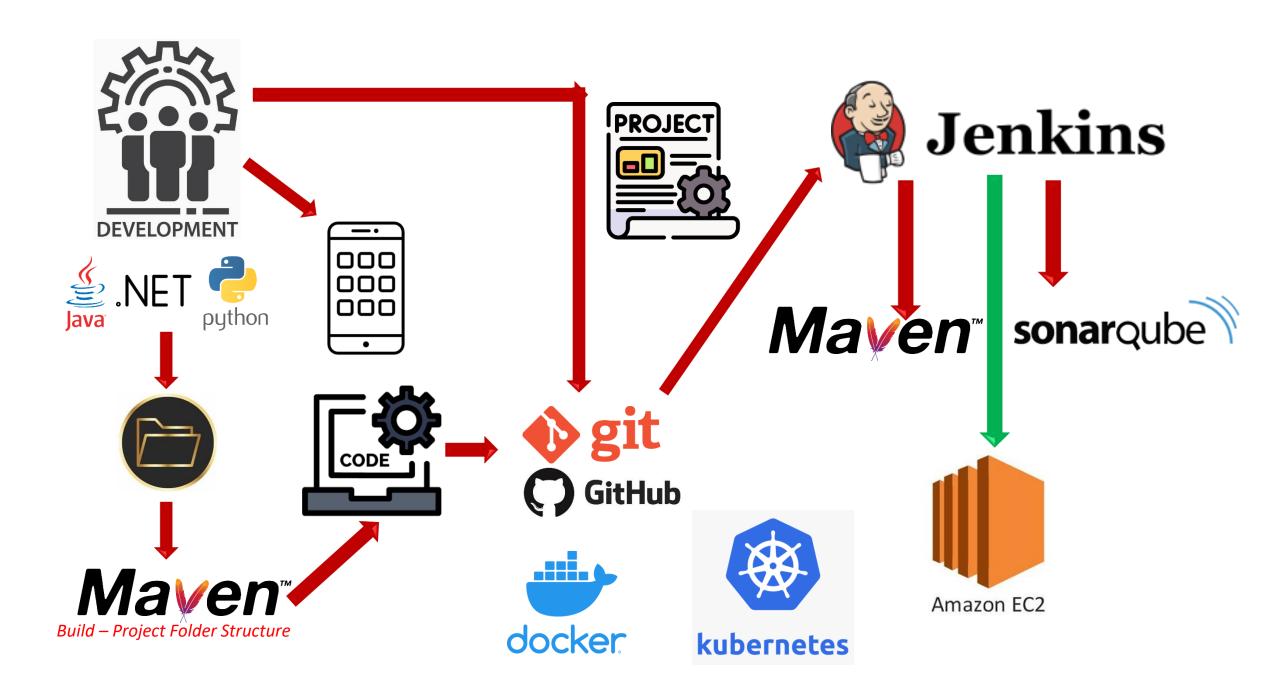
DevOps Tools

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Understanding the Build & Deployment Process

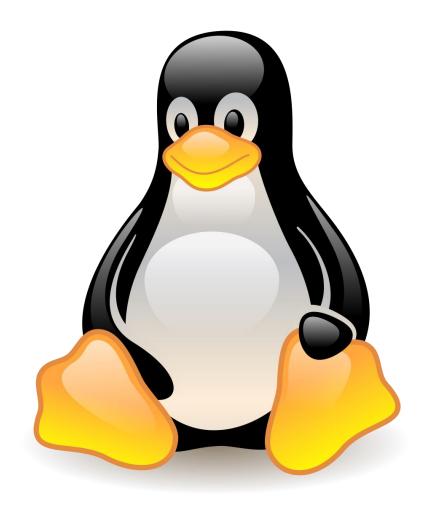








Linux



AWS Account





SUMMARY

You got this

- 1. SDLC
- 2. Types of SDLCs
- 3. DevOps Process

Next session

- 1. Introduction to Linux
- 2. Operating System
- 3. Launching EC2 Instance