Course Title : DevSecOps
          (Tools related Project Development)
                 Project Security
                Project Operations (Deployment/release), maintainance and enhancement)

pre-requisites : Core java , little bit of object orientedness

duration : 50 sessions

timings :: 9am to 9:40/9:30 am

weekly R/7 sessions

Course fee : It is part of package for java fullstack course and Placement batch course
                (others are not allowed)

tools which will be covered :
      maven , gradle
      GIT
      Junit , Mockito
      SP4J
      Sonar Qube
      jacoco *

      Agile (SDLC methodology) *
      JIRA
      Jenkins
      Docker
      K8S (kubernetes)
      ELK stack (Elastic , Logstash , kibana)
      Jmeter

      Log4j
      Lombok api | additional tools
      and etc.

faculty and Admin Details:
FB Group name : _____
FB group url : https://www.facebook.com/groups/_____
To collect material : https://www.facebook.com/groups/_____
facial code (MYTools 705)
email id : _____@gmail.com
for more details at url : https://www.facebook.com/_____
youtube url : https://www.youtube.com/channel
admin details :

        9121212125(Admin MADAM)

Aws related tools
- - - - - - - - - - - - - - -
DataDog , CodeChat, Hervk , and etc..

=> The organization for whom Project is developed is called client organization

=> The company who provides software solutions by gathering the requirements from the client org
    is called software company or software services company

    (services companies)   Client organization
      CTS - - - - - - - - - - - > GMAX , Aereopriser
      Virtusa -POLARIS - - - - - - > Citibank
      Capgemini - - - - - - - - - - > Airline
      TCS   - - - - - - - - - - - - > P. Newermation (prod project)

=> The software company who gathers requirements from the client org and designs, develops,
    releases the Project exclusively for that client organization is called Software services company
          eg: CTS, wipro, infosys, Inc, Capgemini and etc.

=> The software company who actually designs and develops the PRoject on their own funding and release
    to market (or sell to multiple client organizations is called software product company
          eg: Oracle sell (Tally), NonOrbit (school ERP) , Microsoft (Ms office),
              Google (Google maps) and etc..

-> Every Software Project undergoes the following 4 phases (these called environments)(or)(or)(or)
        a) Development
        b) Testing
        c) UAT (User Acceptance Test)
        d) Production

Development   Testing   UAT   Production
[Proj1]   [Proj1] release [Proj1]   [Proj1]

At Software company side   At Client organization side
note: Software company uses either   note: Client org can use either Localsetup
    local Setup or Cloud setup (AWS) for this   or cloud setup
    Offshore Location (CTS - hyd)   Onsite Location (Citibank -London)
    (or)   Onshore Location
    Onshore Location

=> Usually (After releasing the Project, the client org location is called Onsite/Onshore location
    and the software company location is called offshore/offsite Location

=> The Offshore team always supports the Onsite team

=> The Testing that happens on the released project at client org side is called UAT (User Acceptance Test)

Utilisers about these tools
====================
maven - - -> build tool to build the Project (nothing but keeps the project ready for execution)
gradle - - -> build tool

GIT - - -> Code repository (for developers and testers) (common for the team members to share each others work)
SLF4J (Simple Logging Facade for Java) - - - -> logging api - - -> keeps track App's code flow

Junit - - - -> for unit testing (Programmer's Testing on his pieces of code)

Mockito - - -> Also part of unit testing but actually used for creating Proxy /Dummy objects
              to involve and complete the Testing process.

SonarQube : Static Code Analysis tool which checks whether code is following coding standards or not
jacoco : Code Coverage tool which whether testing done on the project is covering 80% of the code or not
                                   (dcl range)

ELK stack : Combination 3 tools that are given to gather and monitor log messages collected from
the multiple log files

Course Title :: DevSecOps to

(Tools related Project Development Project Security

Project Operations (Deployment(release), maintainance and enhancement)

pre-requisites :: Core java, little bit adv.java + common sense

duration :: 50 sessions

timings: 7pm to 8:30/8:40 pm

weekly 6/7 sessions

Course fee :: It is part of package for java fullstack course and Placement batch course (others are not allowed)

Tools which will be covered ::

maven, gradle

GIT

Junit, Mockito

Slf4j

Faculty and Admin Details ::

FB Group name :: natarazjavaarena

FB group url :: https://www.facebook.com/groups/388095825162910

To collect material :: https://www.facebook.com/groups/388095825162910/files (batch code ::NTTools 701)

email id :: natarazjavaarena@gmail.com

for new Batches Info :: https://nareshit.com/new-batches-hyderabad/ youtube url:: https://www.youtube.com/NareshIT admin details ::

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Sonar Qube

jacoco

*

Agile (SDLC methodology)

JIRA

Jenkins

Docker

K8S (Kubernates)

ELK stack (Elastic, Logstash, kibana)

Jmeter

Log4j

Lombok api

additional tools

and etc..

Aws related tools

DataDog, CodeChef, Herek u and etc..

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s/w services company

CTS

Client Orgnization

-> AMEX, Amerprise

Virtus -POLARIS Capgemini TCS

Citi bank

AirBus

-> E-Governance (govt project)

=> The software company who gathers requirements from the client org and designs, develops, releases the Project exclusively for that client organization is called Software Services company eg:: CTS,wipro,infosys, tcs, Capgemini and etc..

=> The software company who actually designs and develops the Project on their own funding and releases to market to sell to multiple client orgizations is called Software product company eg:: Druva soft (Tally), SumTotal (School ERP), Microsoft (Ms-office), Google (Google maps) and etc...

as

=>Every Software Project under goes the following 4 phases (Also called enviroments/profiles)

a) Development

b) Testing

c) UAT (User Acceptance Test)

d) Production

Developement

Proj1

UAT

Testing

Proj 1

release

Proj:1

Production

Proj 1

At Software_company side

note:: Software company uses either

Local Setup or Cloud setup (AWS) for this (best)

Offshore Location (CTS - hyd)

(or)

At Client organization side

note:: Client org can use either Local setup or cloud setup

Д

Onsite Location (Citibank -London) Onshore Location

Onshore Location

=>while/After releasing the Project, the client org location is called Onsite/OnShore Location

and the software company location is called offshore/offsite Location

=> The Offshore team always supports the Onsite team

=> The Testing that happens on the released project at client org side is called UAT (USer Acceptence Test)

OnLiners about these tools

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SonarQube :: Static Code Analysis tool which checks whether code is following coding standards or not Jacoco :: Code Coverage tool which whether testing done on the project is executing 80% of the code or not (idel range)

ELK stack :: Combination 3 tools that are given to gather and montor log messages collected frim the multiple log files

JMeter :: Performance Testing tool.. Tell weather ur that given speed for given no.of requests or not

website

can bare

Jenkins :: CI/CD tool (Continuos Integration and Continuos Delivery) (Automates the build and deployment process)

Docker ::

Allows us to the pack Code and environment(setup)

By having docker container in another machine we can also execute our code in any machine

Kubernates (K8S):: In big projects, we take multiple docker containers having code + software setup .. K8S tool helps us to manage to docker containers effectively by enabling auto scaling and Load balancing features

Plan ur

software career in the following model

=====================================

a) In the maintenance projects of software services company (initial 2 years)

b) In the new projects of software services company (next 2-3 years)

c) In projects of software Products company (next 2-3 years)

d) In projects of software Vendor company (next 2-3 years)

=> The software company who creates and releases the softwares (languages or technologies or frameworks)

is called software vendor company

eg:: Microsoft, google, oracle corp, amazon and etc..