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Course This : DevSecOpe
                           wsecupe — <sub>20</sub>
(Books problem) Project Broadcase col-
                                                  Protect Security
                                                    Project Operations (Deployment) release), maintainance and enhancement):
pro-requisites a Core java, little leit advijesa 🕆 🚥 🖜
duration : 55 sessions
timings :: 2pm to 240/1-20pm
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 workly 6/7 sessions.
Course fee : It is part of package for Java full stack course and Placement batch course.
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                                    (others are not allowed)
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             The company who provides activers solutions by gathering the requirements from the client org.
                       is called. Software company or software services company
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                       to market to sell to multiple officert orginations is called. Software product company
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                                                      Google (Google maps) and etc. ..
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                 and the software company location is called offshore/offsite Location
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              are The Testing that happens on the selected project at directing side is called DAT (USer Aprepteror Test).
    mayon --- build tool to build the Project (nothing but beeps the project ready for essecution).
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                -> - Scale reputitory further hypers and testers. Kommunifor the team members to share each others world)
    9.747 Shapis Logging Facede for Java's ----- logging api --- keeps track App's code flow
    Modifie ------ Also part of unit testing but actually used for creating Proxy /Damery objects
                              to involve and complete the Testing process
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ScrumBuker : Statis Code Analysis tool which sheths whether code is following coding standards or not Jacobs :: Code Coverage tool which whether testing done on the project is executing 20% of the code or not

Elli stach : Combination 3 took that are given to gather and months log manages collected frins

the multiple loss 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 :: **7337313419-ADMIN NANDINI** Sonar Qube iacoco 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..

- => 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

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 environments/profiles)
- a) Development
- b) Testing
- c) UAT (User Acceptance Test)
- d) Production

Developement

Proj1

UAT

Testing

Proj 1

...

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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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 piece 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 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..