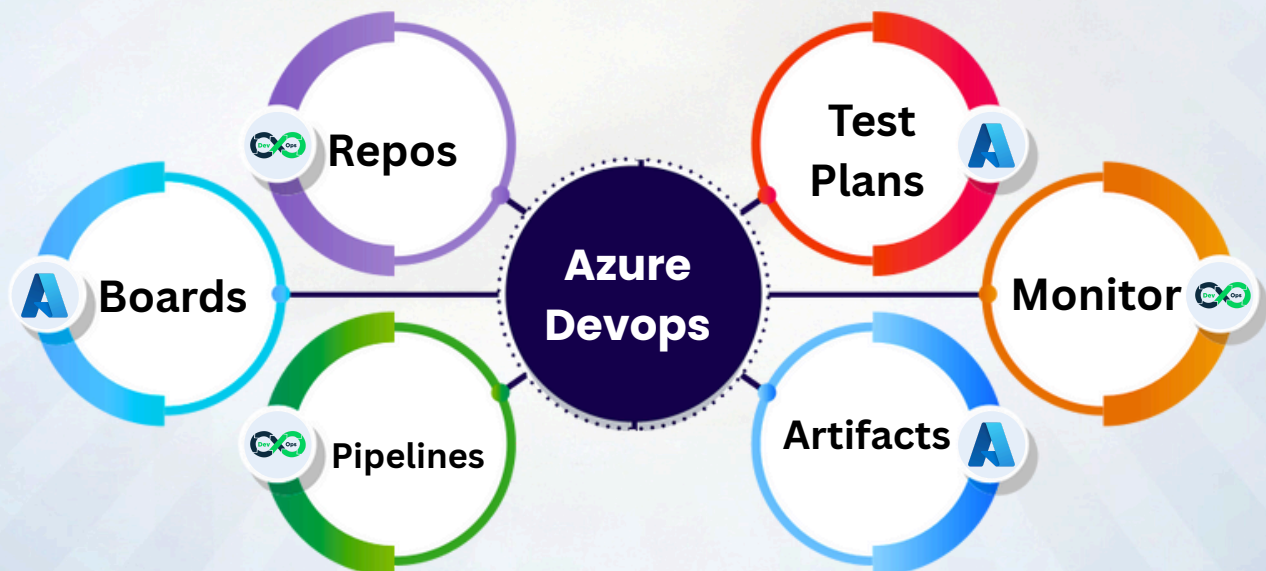




Azure Devops



Azure Devops Syllabus

INTRODUCTION

1. Software Development Life Cycle (SDLC)
2. Waterfall Model
3. Agile Methodology
4. Scrum Model
5. Sprints
6. DevOps Principles and Practices
7. Where DevOps fits in Software Development Process
8. DevOps Tools and their functionality

VERSION CONTROLLING: GIT AND GITHUB

1. Version Controlling, Centralized vs Distributed
2. Installation and Configuration
3. Initializing Git functionality on local servers
4. Git SCM, Git Branching
5. Git Merging, Git Tagging
6. Git Rebase, Stashing, Squash, Rearranging Commit history
7. Branching Strategies
8. Git References
9. SSH Key generation, Cloning Repositories
10. Git Pull, Push and Fetch
11. GIT Merge
12. Real time Branching Design patterns
13. Understand UseCases for GIT



BUILD TOOLS

1. Maven Tool

- Maven Installation
- Features and Requirements of Maven
- Maven pom builds
- Executing Some examples
- Maven Build Lifecycle • Maven Plugins

2. Dotnet Tool

AZURE DEVOPS REPO

3. Azure Devops repo creation
4. Secure repo
5. Branch policies
6. Pull request validations
7. Using Azure Cli for repo operations
8. Managing repo tags

SONARQUBE

1. Intro to SonarQube
2. Architecture and Installation of SonarQube
3. Execute the projects in SonarQube and generate reports
4. Administration activities
5. User creation, Project creation configure email settings etc.,



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INTRODUCTION TO CI TOOLS

1. Understand CI
2. Jenkins
3. Git Lab
4. Azure Devops
5. AWS

AZURE PIPELINES

1. Design pipelines
2. YAML pipelines Stages, Jobs & Steps
3. Service Principles & Service Connections
4. Secure Service Connections
5. Understand Environments
6. Classic Releases
7. Pipeline Libraries
8. pipelines for dotnet project
9. pipelines for java project

AZURE DEVOPS ARTEFACTS

1. Feeds as artefacts
2. Creating feeds
3. Promoting feeds
4. Using feeds in CI/CD of azure pipelines
5. Secure feeds



AZURE DEVOPS CI CD

1. The Five stages of CI/CD in detail
 - a. Continuous Download
 - b. Continuous Build
 - c. Continuous Deployment
 - d. Continuous Testing
 - e. Continuous Delivery
2. Azure Devops pipelines for CI/CD
3. Perform Build, configure multiple projects in Azure Devops
4. Multibranch pipeline projects
5. Azure Devops administration
6. Creating users, assigning Permissions in Azure Devops
7. Azure Devops Build Triggers
8. Configuring Email Notifications

AZURE DEVOPS CI CD

1. Virtualization and Containerization – Differences
2. Docker Introduction - Architecture
3. Docker Installation and Administration
4. Creating Docker Containers (OS, Applications, Databases)
5. Multi Container Architecture in Docker
6. Docker Volumes



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1. Virtualization and Containerization – Differences
2. Docker Introduction - Architecture
3. Docker Installation and Administration
4. Creating Docker Containers (OS, Applications, Databases)
5. Multi Container Architecture in Docker
6. Docker Volumes
7. DockerBuilds
8. Dockerfile concepts
9. Docker Networks
10. Creating customized Registr in Docker
11. Pushing images to Remote Repositories (Public and Private)
12. Docker Swarm (Container Orchestration)
13. Overlay Network
14. Docker Stack

DOCKER

15. Virtualization and Containerization – Differences
16. Docker Introduction - Architecture
17. Docker Installation and Administration
18. Creating Docker Containers (OS, Applications, Databases)
19. Multi Container Architecture in Docker
20. Docker Volumes
21. DockerBuilds
22. Dockerfile concepts
23. Docker Networks
24. Creating customized Registry in Docker

COURSES OFFERING



**JAVA
FULLSTACK**



**PYTHON
FULLSTACK**



**UI
FULL STACK**



LINUX



**CLOUD
COMPUTING**



**DEVOPS
WITH AWS**



DSA



**SYSTEM
DESIGN**



**SOFTWARE
TESTING**



**CYBER
SECURITY**



**DATA
SCIENCE**



**DATA
ANALYTICS**

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