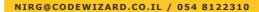




visitors 42046







Azure DevOps

	Level	Duration
00	Tailor Made	1-5 day(s)

Course Description

• The main objective of this course is to expose users to AzureDevops and how to use it.

Audience and prerequisites

• This course(s) are for everyone who need to get familiar with DevOps and the main tools

Main Goals

- Understand the basics of DevOps
- · Agile in Nutshell
- · Get familiar with the most common DevOps tools
- Apply recommended practices for effective and efficient automation with Ansible.
- Perform automation operations as rolling updates.
- Create automation execution environments to contain and scale Ansible Automation.
- Leverage capabilities of the automation content navigator to develop Ansible Playbooks.

List of courses

Course	Duration
Azure DevOps Fundamentals	1 day
Azure DevOps Boards	1-2 days
Azure DevOps CI/CD	1-2 days

Azure DevOps Fundamentals

- Overview
 - This Fundamental course will teach users how to work with Azure DevOps.
 - The course will cover the following topics relevant to the development & management of projects:
 - Planning
 - Managing
 - Coding
 - Deploying
 - and more

Module	Content
Overview	Introduction to Azure DevOps
	 Quick overview of AzureDevOps concepts and features
	◆ Usages
	◆ Collections / Projects
	◆ Azure DevOps components
	Azure Boards
	◆ Azure Repos
	◆ Azure Pipelines
	◆ Azure Test Plans
	◆ Azure Artifacts
	 Collection / Project settings
	◆ Teams/permissions
Azure Boards	Project management - Azure Boards
	Azure boards intro
	◆ Agile
	♦ Scrum
	◆ Kanban
	◆ Sprints
	 Azure boards components
	◆ Work items
	◆ Dashboards
	◆ Wiki
	◆ Boards
	◆ Queries
	◆ Customize
Azure Repos	Source Control - Azure Repos
	Azure Repos Introduction
	Azure Repos with Azure Boards
	◆ GIT vs TFVC
	Branches + Branch flows
	◆ Policies

	Branch Locks
	◆ Pull Requests
	◆ Tags
	◆ Code Review
Azure Pipelines	Implementing CI/CD - Azure Pipelines
	◆ CI/CD Overview
	 Azure DevOps automation introduction
	 Introduction Build / Pipelines / Releases
	◆ Tasks / Task Groups
	 Agents / Self-hosted / Cloud
	◆ Classic vs YAML Pipelines
	 Config / Secrets / Variables
	◆ Global variables
	Variable groups
	System variables
	◆ API / PAT / Tokens
	 Service connections
	 Implementing Continuous Integration in an Azure DevOps Pipeline
	 Implementing Continuous Delivery in an Azure DevOps Pipeline
	 Implementing Continuous Deployment in an Azure DevOps Release
	 Policies / Gates / Stages / Triggers
	◆ Configuration
	◆ Hooks
	 Publishing artifacts
	Manage releases
Azure Artifacts	Manage dependencies / Feeds / Artifacts
	◆ Azure Artifacts Introduction
	◆ Azure Artifacts Feeds
	CI/CD Artifacts/Azure Artifacts
	◆ Views
	◆ Upstream
	◆ Versioning

Azure Test Plans	Testing with Azure DevOps
	Azure Test Plan Introduction
	 Azure Test Plan tests types
	Azure Test Plan configuration
	◆ Azure Test Plan execution

Azure DevOps Boards

- Overview
 - The main purpose of this course is that participants will have a deep understanding and knowledge of how to use Azure DevOps Boards
- The course is a Hands-on course

Module	Content	
Introduction	Introduction to Azure DevOps Boards	
	♦	
	◆ Agile in Nutshell	
	◆ Scrum	
	◆ Kanban	
	◆ Sprints	
	 Azure boards components 	
	 Azure DevOps Boards intro 	
	♦ Work items	
	◆ Dashboards	
	◆ Backlogs	
	◆ Wiki	
	◆ Boards	
	◆ Queries	
	♦ Filters	
	◆ Story point	
	◆ GUI overview	
Boards - Hands-On		
	 Create a demo project with content for the course 	
	Create a demo sprint(s)	
	 Create the relevant work items for the project 	
	◆ Backlog	
	◆ Eplc	
	◆ Task	
	◆ SubTask	
	Define a basic workflow/process	
	 Working with boards 	
	 Customizing boards 	
	 Working with swimlanes (columns) 	
	◆ Adding columns	
	Permissions	

	◆ Queries
	◆ Filters
	Custom fields
	Customize work item types
Dashboards	
	 Build and customize dashboards based on our demo project.
	 Dashboards intro
	♦ Widget
	◆ Charts
	◆ Tiles
	Building boards
	 Adding custom queries to boards
	Build in boards /quires
	Burn up / burn down
	◆ Sprint
	◆ Custom
	◆ Work items
	Repo widgets
	◆ PR
	◆ Builds
	◆ Deployments
	◆ Releases
	 Marketplace widgets

Azure DevOps CI/CD

- Overview
 - The main purpose of this course is that participants will have a deep understanding and knowledge of how to benefit from Azure DevOps Pipelines (CI/CD)
 - The path of the course is to build an Azure DevOps project from end-to-end, starting with defining the Work items (Azure Boards) and coding them (Azure Repos) and the main focus is on building and deploying the artifacts into multiple environments

Module	Content	
Preparation	Project preparation	
	Quick overview of Azure Repos / Azure Pipelines	
	◆ Preparations	
	◆ Teams	
	◆ SSH keys	
	Token / PAT / service connections	
	3rd party integration overview	
Create a Demo Project		
	 Create a demo project with content for the course 	
	 Create the relevant work items for the project 	
	Build the base code skeleton as a GIT repository	
CI/CD - Azure Pipelines		
	◆ DevOps CI/CD Overview	
	Azure DevOps automation introduction	
	 Introduction Build / Pipelines / Releases 	
	◆ Tasks / Task Groups	
	 Agents / Self-hosted / Cloud 	
	Classic vs YAML Pipelines	
	 Config / Secrets / Variables 	
	Global variables	
	 Variable groups 	
	System variables	
	♦ API / PAT / Tokens	
	Service connections	
Hand-On - Azure Pipelines		
	 Implementing Continuous Integration in an Azure DevOps Pipeline 	
	 Build a basic deployment (Docker container) 	
	 Inject content to Docker containers 	
	◆ Policies	
	◆ Gates	
	◆ Triggers	

•	Implementing Continuous Delivery in an Azure DevOps Pipeline
	◆ Pack
	◆ Artifacts
	Manage the release of pipelines
	♦ Feeds
	Parallel stages
	♦ Serial stages
•	Implementing Continuous Deployment in an Azure DevOps Release
	♦ Stages
	♦ Jobs
	◆ Steps
	Deployment Groups
	Deployment strategies
	Manage artifacts
	 Deployment resources
•	Hands-on
	Agents - Cloud / Self-hosted
	◆ YAML Pipelines
	Classical view
	Configuration
	♦ Tasks / Task Groups
	Agents / Self-hosted / Cloud
	 Classic vs YAML Pipelines
	Config / Secrets / Variables
	Global variables
	Variable groups
	System variables
	◆ API / PAT / Tokens
	 Service connections
•	3rd party integration
	◆ Azure
	♦ Key-Vault

Docker registry/hub
◆ Hooks
 Publishing artifacts
◆ Manage releases
 Gates / Approvals
◆ Feedback (work items, git, etc)

Back to courses list

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