AZ-400 Designing and Implementing Microsoft DevOps Solutions, Part 1 of 7: Development Process

Meet the expert: Ranjan is an author, consultant, trainer, speaker & founder having 12 years of hands-on experience. As a trainer, he has delivered 250+ corporate training & trained 5000+ professionals with excellent feedback on various technologies around the globe.

Prerequisites: The AZ-400 exam has a prerequisite of EITHER Microsoft Certified Azure Administrator Associate OR Microsoft Certified Azure Developer Associate. Candidates for this exam should have subject matter expertise working with people, processes, and technologies to continuously deliver business value.

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Course description: Candidates for the DevOps Engineer Expert certification should have subject matter expertise working with people, processes, and technologies to continuously deliver business value. This course covers: Implement DevOps Development Processes which counts for approximately (20 – 25%) of the exam.

Course outline:

Get Started with Source Control
- Introduction
- Source Control
- Source Control Benefits
- Types of Source Control
- Azure Repos
- Migrating from TFVC to Git
- Authenticate GIT Repository
- Summary

Account and Project Creation
- Introduction
- Outlook Email Creation
- Account and Project Creation
- GitHub Account Creation
- BitBucket Account Creation
- AzurePortal Creation
- Summary

Create a new Repo
- Introduction
- Create a new Repo
- Push and Pull Changes from Local
- Import Code into Azure DevOps
- Import Code into Github Bitbucket
- Summary

Organization Settings
- Introduction
- Org settings Full
- Project Settings Full
- Summary

How to Structure Git Repo
- Introduction
- Structure Git Repo
- Git Branching Workflows
- Collaborating with Pull Requests
- Why Care about GitHooks
- Fostering Internal Open Source
- Git Version
- Public Projects
- Files in Git
- Summary

Azure Repos Overview
- Introduction
- Azure Repos Overview
- Azure Branches and PR
- Internal Forking
- Summary

Pipelines in DevOps
- Introduction
- Manage Build Infrastructure
- Azure Pipelines
- Hosted vs. Private Agents
- Agent Pools
- Pipelines and Concurrency
- Open Source Projects
- YAML vs. Visual Designer
- Setup Private Agents
- Jenkins and Azure Pipelines
- External Source control
- Docker Multi-Stage Builds
- Summary

Demo Generator
- Introduction
- AD Demogenerator
- Agent installation
- Summary

Introduction to Security
- Introduction
- Managing App Config and Secrets
- Secure and Compliant Dev Processes
- Rethinking App Config Data
- Manage Secrets Tokens and Certificates
- Tools for Managing Security and Compliance
- Summary

Mobile DevOps
- Introduction
- Mobile DevOps
- Visual Studio App Center
- Manage Mobile Target Device Sets
- Manage Target UI Test Device Sets
- Provision Tester Devices for Deployment
- Create Public and Private Distribution Groups
- App Center Account Creation
- Summary