MAZR-52 - MOC AZ-400T00 - DESIGNING AND IMPLEMENTING MICROSOFT DEVOPS SOLUTIONS

Categoria: **Azure**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
4 Giorni	Azure	Microsoft Certified Trainer	Professionista IT	Microsoft

OBIETTIVI

This course provides the knowledge and skills to design and implement DevOps processes and practices. Students will learn how to plan for DevOps, use source control, scale Git for an enterprise, consolidate artifacts, design a dependency management strategy, manage secrets, implement continuous integration, implement a container build strategy, design a release strategy, set up a release management workflow, implement a deployment pattern, and optimize feedback mechanisms.

PREREQUISITI

Successful learners will have prior knowledge and understanding of:
- Cloud computing concepts, including an understanding of PaaS, SaaS, and IaaS implementations.
- Both Azure administration and Azure development with proven expertise in at least one of these areas.
- Version control, Agile software development, and core software development principles. It would be helpful to have experience in an organization that delivers software.

Prerequisite courses (or equivalent knowledge and hands-on experience):
- Course: AZ-104: Microsoft Azure Administrator
- Course: AZ-204: Developing Solutions for Microsoft Azure

CONTENUTI

Introduction to DevOps

Plan Agile with GitHub Projects and Azure Boards

Manage Git branches and workflows

Collaborate with pull requests in Azure Repos

Explore Git hooks

Plan foster inner source

Manage Git repositories

Identify technical debt

Explore Azure Pipelines

Manage Azure Pipeline agents and pools

Describe pipelines and concurrency

Implement a pipeline strategy

Integrate with Azure Pipelines

Introduction to GitHub Actions

Learn continuous integration with GitHub Actions

Design a container build strategy

Create a release pipeline

Explore release recommendations

Provision and test environments

Manage and modularize tasks and templates

Automate inspection of health

Introduction to deployment patterns

Implement blue-green deployment and feature toggles

Implement canary releases and dark launching

Implement A/B testing and progressive exposure deployment

Integrate with identity management systems

Manage application configuration data

Explore infrastructure as code and configuration management

Create Azure resources using Azure Resource Manager templates

Implement Bicep

Create Azure resources by using Azure CLI

Explore Azure Automation with DevOps

Implement Desired State Configuration (DSC)

Introduction to Secure DevOps

Implement open-source software

Software Composition Analysis

Security Monitoring and Governance

Explore package dependencies

Understand package management

Migrate consolidating and secure artifacts

Implement a versioning strategy

Introduction to GitHub Packages

Implement tools to track usage and flow

Develop monitor and status dashboards

Share knowledge within teams

Design processes to automate application analytics

Manage alerts, blameless retrospectives and a just culture

INFO

Esame: AZ-400 - Designing and Implementing Microsoft DevOps Solutions
Materiale didattico: Materiale didattico ufficiale Microsoft in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)