



MICROSOFT TRAINING

Oss PaaS Devops Microsoft Cloud Workshop

Master OSS, PaaS, and DevOps on Microsoft Cloud. Learn to build and deploy robust, scalable solutions on Azure.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The "Oss Paas Devops Microsoft Cloud Workshop" is an intensive, intermediate-level course designed to equip IT professionals with the practical skills needed to integrate Open Source Software (OSS), Platform-as-a-Service (PaaS), and robust DevOps practices within the Microsoft Azure ecosystem. This workshop provides a focused, hands-on experience in building, deploying, and managing modern cloud-native applications efficiently. Participants will learn how to leverage Azure's powerful PaaS offerings alongside popular open-source tools to create seamless continuous integration and continuous delivery (CI/CD) pipelines.

This course delves into core technologies such as Azure DevOps for pipeline orchestration, Git for version control, Docker for containerization basics, and various Azure PaaS services like Azure App Service and Azure Functions. By the end of this workshop, attendees will possess the foundational knowledge and practical insights to accelerate their application development lifecycle, enhance collaboration, and ensure greater application reliability and scalability. The professional benefits include faster time-to-market for applications, improved operational efficiency, reduced infrastructure management overhead, and the ability to implement modern, agile software delivery practices.

Completing this workshop will empower you to design and implement automated deployment strategies, troubleshoot common cloud deployment challenges, and effectively manage cloud-based applications. It's an essential stepping stone for those looking to master the intersection of open source flexibility, PaaS agility, and DevOps automation in a Microsoft Azure environment, making you a highly valuable asset in any cloud-driven organization.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Foundations of OSS, PaaS, and DevOps on Azure

- Defining Open Source Software (OSS) and its role in Azure
- Overview of Azure Platform-as-a-Service (PaaS) offerings (App Service, Functions, SQL Database)
- Introduction to core DevOps principles: CI/CD, Infrastructure as Code, Monitoring
- Exploring Azure DevOps Services and their components

02 Module 2: Building & Deploying with Azure Pipelines and OSS Tools

- Integrating Git repositories with Azure DevOps
- Setting up Continuous Integration (CI) pipelines using Azure Pipelines
- Leveraging common OSS build tools (e.g., Node.js, Python, Java frameworks)
- Configuring Continuous Deployment (CD) to Azure App Service or Azure Functions
- Basic containerization concepts for PaaS (e.g., Docker for Web Apps for Containers)

03 Module 3: Monitoring, Scaling, and Advanced DevOps Practices

- Introduction to Azure Monitor for PaaS applications
- Implementing application logging and metrics collection
- Strategies for auto-scaling PaaS resources based on demand
- Brief overview of Infrastructure as Code (IaC) principles for Azure PaaS deployments
- Integrating security into the DevOps pipeline (DevSecOps overview)

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure DevOps Engineer**
- > **Cloud Native Developer (specializing in Azure PaaS)**
- > **Cloud Automation Specialist**

FREQUENTLY ASKED QUESTIONS

Q: What kind of applications will I learn to deploy and manage using OSS and PaaS in this workshop?

This workshop focuses on providing practical skills for deploying and managing modern web applications, APIs, and serverless functions built using popular open-source frameworks (like Node.js, Python, or .NET Core) onto Microsoft Azure PaaS services such as Azure App Service and Azure Functions. You will gain hands-on experience in setting up and automating streamlined CI/CD pipelines for these application types.

Q: What are the prerequisites for this workshop? Do I need prior experience with Azure or DevOps?

While deep prior expertise in Azure or DevOps is not strictly required, participants should have a basic understanding of cloud computing concepts and familiarity with application development fundamentals (e.g., basic coding concepts, command-line usage). We will cover essential Azure and DevOps concepts as they relate to practical application within the workshop, making it accessible for intermediate learners.

Q: How will this workshop help me apply DevOps practices to my projects immediately after completing it?

This workshop is highly hands-on and project-focused. You will learn to configure and execute a complete CI/CD pipeline using Azure DevOps, integrate open-source build tools, and successfully deploy an application to Azure PaaS. You'll leave with a clear foundational understanding and actionable steps to implement similar automated development and deployment workflows in your own projects, significantly boosting efficiency and reliability from day one.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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