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Training Outline

The candidates attending the Microsoft Azure Cloud and Linux training courses are expected to demonstrate expertise in implementing, managing, and monitoring solutions that run on Microsoft Azure, covering virtual networks, storage, compute, and security. Furthermore, candidates are expected to have a strong foundation in using and working with the Linux operating system. To achieve these goals, the training program will cover specific courses, please continue reading to see the course outline.

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Technical skills (250 hours)

Course AZ-900T00: Microsoft Azure Fundamentals
30 Training Hours

Instructor-led training, Beginner, English

This course will provide foundational level knowledge on cloud concepts; core Azure services; and Azure management and governance features and tools.

Audience Profile

This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal and command line interface to create resources and does not require scripting skills. Students in this course will gain confidence to take other role-based courses and certifications, such as Azure Administrator. This course combines lecture, demonstrations, and hands-on labs. This course will also help prepare someone for the AZ-900 exam.

Job role: Administrator

Preparation for exam: [AZ-900](#)

Course Outline

- Describe cloud computing
- Describe the benefits of using cloud services
- Describe cloud service types
- Describe the core architectural components of Azure
- Describe Azure compute and networking services
- Describe Azure storage services
- Describe Azure identity, access, and security
- Describe cost management in Azure
- Describe features and tools in Azure for governance and compliance
- Describe features and tools for managing and deploying Azure resources

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- Describe monitoring tools in Azure

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Course AZ-104T00: Microsoft Azure Administrator
40 Training Hours

Instructor-led training, Intermediate, English

This course teaches IT Professionals how to manage their Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, back up and share data, and monitor your solution.

Audience Profile

This course is for Azure Administrators. The Azure Administrator implements, manages, and monitors identity, governance, storage, compute, and virtual networks in a cloud environment. The Azure Administrator will provision, size, monitor, and adjust resources as appropriate.

Job role: Administrator

Preparation for exam: [AZ-104](#)

Course Outline

- Configure Azure Active Directory
- Configure user and group accounts
- Configure subscriptions
- Configure Azure Policy
- Configure role-based access control
- Configure Azure resources with tools
- Use Azure Resource Manager
- Configure resources with Azure Resource Manager templates
- Configure virtual networks
- Configure network security groups
- Configure Azure Firewall
- Configure Azure DNS
- Configure Azure Virtual Network peering

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- Configure Azure VPN Gateway
- Configure Azure ExpressRoute and Azure Virtual WAN
- Configure network routing and endpoints
- Configure Azure Load Balancer
- Configure Azure Application Gateway
- Configure storage accounts
- Configure Azure Blob Storage
- Configure Azure Storage security
- Configure Azure Files and Azure File Sync
- Configure Azure Storage with tools
- Configure virtual machines
- Configure virtual machine availability
- Configure virtual machine extensions
- Configure Azure App Service plans
- Configure Azure App Service
- Configure Azure Container Instances
- Configure Azure Kubernetes Service
- Configure file and folder backups
- Configure virtual machine backups
- Configure Azure Monitor
- Configure Azure alerts
- Configure Log Analytics
- Configure Network Watcher

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Course AZ-305T00: Designing Microsoft Azure Infrastructure Solutions
40 Training Hours

Instructor-led training, Advanced, English

This course teaches Azure Solution Architects how to design infrastructure solutions. Course topics cover governance, compute, application architecture, storage, data integration, authentication, networks, business continuity, and migrations. The course combines lecture with case studies to demonstrate basic architect design principles.

Audience Profile

Successful students have experience and knowledge in IT operations, including networking, virtualization, identity, security, business continuity, disaster recovery, data platforms, and governance. Students also have experience designing and architecting solutions.

Job role: Solution Architect

Preparation for exam: [AZ-305](#)

Course Outline

- Design governance
- Design an Azure compute solution
- Design a data storage solution for non-relational data
- Design a data storage solution for relational data
- Design data integration
- Design an application architecture
- Design authentication and authorization solutions
- Design a solution to log and monitor Azure resources
- Design network solutions
- Design a solution for backup and disaster recovery
- Design migrations
- Build great solutions with the Microsoft Azure Well-Architected Framework
- Accelerate cloud adoption with the Microsoft Cloud Adoption Framework for Azure

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Course AZ-400T00: Designing and Implementing Microsoft DevOps Solutions
40 Training Hours

Instructor-led training, Advanced, English

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.

Audience Profile

Students in this course are interested in designing and implementing DevOps processes or in passing the Microsoft Azure DevOps Solutions certification exam.

Job role: DevOps Engineer

Preparation for exam: [AZ-400](#)

Course Outline

- Introduction to DevOps
- Choose the right project
- Describe team structures
- Choose the DevOps tools
- Plan Agile with GitHub Projects and Azure Boards
- Introduction to source control
- Describe types of source control systems
- Work with Azure Repos and GitHub
- Structure your Git Repo
- Manage Git branches and workflows
- Collaborate with pull requests in Azure Repos
- Identify technical debt
- Explore Git hooks
- Plan foster inner source

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- Manage Git repositories
- Explore Azure Pipelines
- Manage Azure Pipeline agents and pools
- Describe pipelines and concurrency
- Explore continuous integration
- Implement a pipeline strategy
- Integrate with Azure Pipelines
- Introduction to GitHub Actions
- Learn continuous integration with GitHub Actions
- Design a container build strategy
- Introduction to continuous delivery
- 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
- Create Azure resources by using Azure CLI
- Explore Azure Automation with DevOps
- Implement Desired State Configuration (DSC)
- Implement Bicep
- Introduction to Secure DevOps
- Implement open-source software
- Software Composition Analysis
- Static analyzers
- OWASP and Dynamic Analyzers

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- 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

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Course AZ-700T00: Designing and Implementing Microsoft Azure Networking Solutions

40 Training Hours

Instructor-led training, Intermediate, English

This course teaches Network Engineers how to design, implement, and maintain Azure networking solutions. This course covers the process of designing, implementing, and managing core Azure networking infrastructure, Hybrid Networking connections, load balancing traffic, network routing, private access to Azure services, network security and monitoring. Learn how to design and implement a secure, reliable, network infrastructure in Azure and how to establish hybrid connectivity, routing, private access to Azure services, and monitoring in Azure.

Audience Profile

This course is for Network Engineers looking to specialize in Azure networking solutions. An Azure Network engineer designs and implements core Azure networking infrastructure, hybrid networking connections, load balance traffic, network routing, private access to Azure services, network security and monitoring. The azure network engineer will manage networking solutions for optimal performance, resiliency, scale, and security.

Job role: Network Engineer

Preparation for exam: [AZ-700](#)

Course Outline

- Introduction to Azure Virtual Networks
- Design and implement hybrid networking
- Design and implement Azure ExpressRoute
- Load balance non-HTTP(S) traffic in Azure
- Load balance HTTP(S) traffic in Azure
- Design and implement network security
- Design and implement private access to Azure Services
- Design and implement network monitoring

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Linux Operating System
50 Training Hours

The course introduces the Linux operating systems. The course explores installation of Linux operation system, basic commands, system hierarchy, services, scripting and tools, configure storage and it presents important system administration techniques. Introduction to Linux administration is primarily oriented for students who aspire to have a career in System Administration, Network Engineering and Software Development. Course has enough information to guide you on installing, administering and securing not only the Linux operating system itself but also different software services that run on it.

This general overview of the Linux operating systems includes topics that will guide you to certification of Red Hat Certification System Administrator 8 (RHCSA 8), LPIC-1, Linux + and LFCS.

After successfully completing this course, students should be able to:

- Understand the Linux Operating System and System Architecture;
- Install a Linux Operating system;
- Managing and Understanding Boot Procedure;
- Linux Environment and Command Line;
- Organize and Manage File System Hierarchy;
- Monitor and Manage Running Processes;
- Manage Users, Groups and Special Permission;
- Manage Partitions and Manage LVM Logical Volumes;
- Install, Update, Remove and Linux Software/Packages;
- Configure Logging and Scheduling Tasks;
- Manage System Networking;
- Working with Virtual Machine;
- Manage Services with Systemd;
- Install and Configure Basic Apache Web Server;

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- Secure a Running Linux System with Firewall and SELinux;
- Introduction to Bash Shell Scripting.

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After completing this course, the students are expected to:

- Installing Linux and understand boot process and change booting process to different run levels;
- Understand Linux environment and perform custom shell environment for different users in system;
- Comfortably use command line to perform day to day system administrator activities.
- Install, update and remove users and groups and manage them;
- Manage file permission and ACL's.
- Access Linux man documentation for additional help;
- Create, extend and delete partitions and LVM volumes;
- Perform backups and restores with tar and gunzip;
- Manage system logs and Schedule automated commands;
- Install and configure Linux software services such as Apache, MySQL, PHP, DNS, FTP, etc;
- Configure network interfaces;
- Understand system security, add & remove rules on firewall and implement security enhancement Linux;
- Create simple bash shell script.
- Knowledge of Linux command-line interface and Linux file system
- Understanding of Linux system administration and basic Linux commands such as navigation, file management, and process management
- Understanding basic networking configuration in Linux.
- Understanding of installing, updating, backing up, restoring, and managing Linux software packages.
- Familiarity with Linux utilities and tools such as SSH, SCP, and SFTP
- Experience with configuring and managing Linux servers and web servers (Nginx and Apache)

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Soft skills

35 Training Hours

Below we are listing the soft skills training topics:

- Analytical skills,
- Design skills,
- Communication skills;
- Presentations skills;
- Basics of time management;
- Various types of online outsourcing marketplaces that exist and their utilization in the context of Kosovo;
- Basic knowledge about finance (Personal finance management, covering taxation) and market;
- Types of tasks that one could undertake on such marketplaces;
- Strategies for finding one's competitive niche on such marketplaces;
- How to create an online work profile and maintain it while leveraging self-marketing techniques;
- Bidding, proposing and negotiating with clients;
- Ensuring quality and timely delivery of online tasks;
- Receiving payments in the context of Kosovo;
- Building long-term working relationships with online clients;

Business Communication

- Listening to Client Needs/Wants
- Asking the Right Questions
- Clear Explanations
- Communicating Professionally
- Communicating Through the Design
- Dealing with Feedback and Criticism

Project Management

Part of effective project management is having a process or plan that the candidate can follow. There are a number of different project management apps that can help keep everything organized and managed effectively.

Time Management

- Have a Plan for your time
- Minimize Distractions

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- Track Your Time
- Time Management Tools

Sales

- Bidding phase
- Proposal phase
- Negotiating phase
- Awarding phase
- Building long-term relationships with clients

Social Media Marketing

- How to use social media for marketing

Creating a freelancer profile online

- Create an effective headline o Upload a professional photo
- Open profile by outlining the qualifications and experience
- Backup qualifications with academic background if available
- Include contact information

How to use the different online freelancer platforms

- Using all the tools and skills gathered during the training