

AZ 100T01 A Manage Subscriptions and Resources

Course Summary

Description

This course teaches IT Professionals how to manage their Azure subscriptions, including access, policies, and compliance, as well as how to track and estimate service usage and related costs. Students also learn how cloud resources are managed in Azure through user and group accounts. Students learn how to grant appropriate access to Azure AD users, groups, and services through Role-based access control (RBAC). Students also discover the core monitoring tools and capabilities provided by Azure, including Azure Alerts and Activity Log. Students are then introduced to Log Analytics as a broad data analytics solution, and use this service to query and analyze operational data. Students then learn about the Azure Resource Manager deployment model, and how to work with resources, resource groups and ARM templates.

Because this course is the first course in the series for the Azure Administrator exams, there is a considerable amount of foundational content that is covered here in order to prepare students for the remaining courses in the curriculum. So students are provided with a lesson that covers tips and tricks for working in the Azure portal, as well as an introduction to key tools used in the Azure environment, such as the Cloud Shell and Resource Explorer. Emphasis is laid on PowerShell and the command line interface (CLI) as important skills to acquire not only in preparation for the exam but for the job role itself.

This class is part of the following 5-day comprehensive class: AZ-100: MS Azure Infrastructure and Deployment. <https://www.protechtraining.com/az-100-ms-azure-infrastructure-and-deployment-pt21911>

Objectives

By the end of this course, students will be able to:

- Manage Azure subscriptions and billing, and implement Azure policies.
- Implement access management with Azure users, groups, and role-based access control.
- Use Azure Monitor to configure Azure alerts and review the Azure Activity Log.
- Query and analyze Log Analytics data.
- Deploy resources with ARM templates and organize Azure resources.
- Optimize your use of Azure tools like the Azure portal, Azure PowerShell, Cloud Shell and the Azure CLI.

Topics

- Managing Azure Subscriptions
- Access Management for Cloud Resources
- Monitoring and Diagnostics
- Log Analytics
- Azure Resource Manager
- Azure Tips, Tricks, and Tools

Audience

This course is for Azure Administrators. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle

Prerequisite

Successful Cloud Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking.

Duration

One Day

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Course Outline

I. *Managing Azure Subscriptions*

In this module, you'll learn about the components that make up an Azure subscription and how management groups are used to organize subscriptions into containers to allow you to control organizational governance and policy management across subscriptions. As well as learning about the different available types of subscription, you'll see how to apply tags to your Azure resources to logically organize them by categories.

- A. Overview of Azure Subscriptions
- B. Billing
- C. Azure Policy

II. *Access Management for Cloud Resources*

In this module you will learn the basics of role-based access control as it applies to users and groups. Focus on the administrator role and how it is used in Azure.

- A. Azure Users and Groups
- B. Role-based Access Control

III. *Monitoring and Diagnostics*

In this module, you learn about the Azure Monitor and the many capabilities to ensure your Azure architecture is working correctly. Monitoring skills are explained in this first course and then demonstrated in the following courses. The two main elements explained in this module are Azure Alerts and Azure Activity Log.

- A. Exploring Monitoring Capabilities in Azure
- B. Azure Alerts
- C. Azure Activity Log

IV. *Log Analytics*

In this module, you will focus on Log Analytics. Log Analytics provides a way for you to collect, analyze, and query all types of connected data. It is a very powerful tool.

- A. Introduction to Log Analytics
- B. Querying and Analyzing Log Analytics Data

V. *Azure Resource Manager*

In this module, you will learn about how resources are organized into resource groups and how ARM templates are used to deploy those resources. This module introduces the concepts and then they are applied in the other courses.

- A. ARM templates
- B. Resource Groups

VI. *Azure Tips, Tricks, and Tools*

This last module is provided to help you get the most from your administrative tools. This includes the Azure Portal, Cloud Shell, Azure CLI, Azure PowerShell, and Resource Explorer.

- A. Azure Portal
- B. Azure Tools and Environment