**Become an Azure Developer**

9 hours

<https://www.linkedin.com/learning/paths/become-an-azure-developer?u=42751868>

Microsoft Azure is an incredibly powerful cloud service. This learning path has been specifically created for developers and it allows you to get up to speed with the major application development and security features of Azure.

**Explore** the key tools available to Azure developers.

**Learn** the key elements of cloud development.

**Identify** the unique challenges and capabilities of cloud computing.

# Microsoft Azure Synapse for Developers

## Create your data warehouse

<https://www.linkedin.com/learning/microsoft-azure-synapse-for-developers/create-your-data-warehouse?u=42751868>

Data powers decision-making. And to effectively leverage data to support business insights, companies must be able to query data and run analytics at a large scale. Azure Synapse, formerly known as Azure SQL Data Warehouse, can help. This powerful analytics service blends big data analytics with data warehousing, offering organizations a way to store large amounts of incoming data for a reasonable cost. In this course, instructor Nertil Poci helps developers get up and running with Azure Synapse and build their first data warehouse. Nertil goes over the benefits that Azure Synapse offers, as well as how to provision a data warehouse, load and query data, and leverage best practices to minimize costs and optimize your data warehouse. Along the way, he shares challenges that allow you to practice your new skills.

### Skills covered in this course

* [Database Development](https://www.linkedin.com/learning/search?keywords=Database%20Development&u=42751868)
* [Big Data](https://www.linkedin.com/learning/search?keywords=Big%20Data&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Azure for Developers: Security Best Practices

## Why security matters for developers

<https://www.linkedin.com/learning/azure-for-developers-security-best-practices/why-security-matters-for-developers?u=42751868>

**Course details**

1h 12m Intermediate Released: 1/24/2020

With the rise of cloud computing, and especially platform as a service (PaaS) solutions, developer productivity has reached new heights. A single developer can now be responsible for the design and even configuration of databases, web servers, and application deployment. But with this new power comes a new set of security concerns. In this course, learn how to secure your applications by leveraging key Azure tools and best practices. This course can also prepare you for the Implement Azure security portion of the Developing Solutions for Microsoft Azure (AZ-203) exam. Instructor Karl Ots covers how to control access to the Azure development environment, securely authenticate end users, and securely connect application logic to Azure data services.

**Learning objectives**

* Controlling user access to Azure
* Securing application sign-in with multi-factor authentication
* Managing Azure application secrets
* Managing secrets with Azure Key Vault
* Managed identity for Azure resources
* Securing access to Azure Storage

**Skills covered in this course**

* [Cloud Security](https://www.linkedin.com/learning/search?keywords=Cloud%20Security&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Microsoft Azure: Security Concepts**

<https://www.linkedin.com/learning/microsoft-azure-security-concepts-3/welcome?u=42751868>

### Course details

2h 9m Intermediate Released: 6/11/2018

The professionals in charge of Azure administration need to know how to secure services correctly to protect the data flowing between client computers and the cloud. This course investigates security concepts related to Azure deployment and services such as Office 365 and Azure Active Directory. Find out how to work with the security portals, secure virtual machines, implement more robust multi-factor authentication, and protect your services and data, including email, documents, and user data. Plus, learn best practices for successfully securing your Azure deployment.

### Learning objectives

* Securing objects and virtual machines
* Deploying certificates for Azure resources
* Implementing multi-factor authentication
* Securing Office 365
* Securing Azure Active Directory

### Skills covered in this course

* [Cloud Security](https://www.linkedin.com/learning/search?keywords=Cloud%20Security&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Azure for Developers: Resource Planning**

**Leverage Azure to build your web app**

<https://www.linkedin.com/learning/azure-for-developers-resource-planning/leverage-azure-to-build-your-web-app?u=42751868>

### Course details

40m Beginner Released: 12/5/2018

The cloud is full of options. Efficiently building an application requires Azure developers to understand what choices are available and select the right resources and scale for their project. In this course, instructor Matt Milner takes things back to basics by looking at the core tenants of what's available on the Microsoft Azure developer buffet. Matt starts by asking (and answering) why there are so many options. He then dives into what's available in each core pillar of Azure development: Storage, compute, networking, and integration. Upon wrapping up this course, you'll be equipped with the knowledge you need to select the best options for your team and determine the cost of the solutions you're considering.

### Learning objectives

* Evaluating Azure Storage options
* Estimating the cost of your storage choices
* Evaluating various compute, networking, and integration options
* The role of virtual networks in your networking solutions
* System connectivity requirements
* Connecting resources over HTTP
* Brokered messaging with Service Bus

### Skills covered in this course

* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Azure Storage for Developers: Queues

## A closer look at Azure Storage queues

<https://www.linkedin.com/learning/azure-storage-for-developers-queues/a-closer-look-at-azure-storage-queues?u=42751868>

Queues are the universal solution to the dual challenges of latency and scalability. The use of queues can help to resolve several notable challenges in distributed computing, including load smoothing. In this course, instructor Anton Delsink takes a deep dive into Azure Queue Storage, a queuing service built on Azure Storage that enables you to store a large amount of messages. To kick off the course, Anton steps through how to create and properly secure a storage account. He then details key queue concepts, including how to manage the lifecycle of a message by managing the visible time property, how to use a shared access signature to provide privileges to queue clients, and more.  
  
Interested in learning more about other storage options? Check out additional courses in the *Azure Storage for Developers* series.

### Learning objectives

* Creating a storage account
* Shared key authentication
* Using shared access signatures (SAS)
* Granting privileges with stored access policies
* Managing the visible time property
* Queue metadata
* Queue access control (SAS)
* Performance constraints of Azure Queue Storage

### Skills covered in this course

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)
* [Cloud Storage](https://www.linkedin.com/learning/search?keywords=Cloud%20Storage&u=42751868)

# Azure Developer Tips

## Keeping pace with Azure

<https://www.linkedin.com/learning/azure-developer-tips/keeping-pace-with-azure?u=42751868>

Microsoft Azure is a cloud platform that gets better every day. Over 800 new features were added in 2017 alone. This series helps new and experienced developers and DevOps engineers keep up with the changes. Instructor Mike Benkovich showcases what's new and compelling in Azure, using the tools to build short, one-off projects, such as a .NET web app or a continuous delivery pipeline with Visual Studio.

### Skills covered in this course

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Azure Quick Tips for Developers

## Azure quick tips overview

<https://www.linkedin.com/learning/azure-quick-tips-for-developers/azure-quick-tips-overview?u=42751868>

### Course details

36m Intermediate Released: 11/7/2019

Want to work smarter with Microsoft Azure? This course can help you get there, one quick tip at a time. Each self-contained video is about a minute long, so you can pick up new ways of working in your spare moments. Instructor Mike Benkovich demonstrates how to leverage the latest features and tools that the platform has to offer, sharing insider solutions and techniques in the areas of resource management, cloud governance, user access, and more.

### Learning objectives

* Customizing a default view in the portal
* Customizing favorites in the portal toolbar
* Creating a report of users
* Creating a custom dashboard
* Cleaning up resources in a resource group
* Using a policy to enforce tagging
* Diagnosing and solve App Service problems

### Skills covered in this course

* [Cloud Application Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Application%20Development&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Azure for Developers: Cosmos DB

## What is Azure Cosmos DB?

<https://www.linkedin.com/learning/azure-for-developers-cosmos-db/what-is-azure-cosmos-db?u=42751868>

### Course details

39m Beginner Released: 12/9/2019

Azure Cosmos DB is one of the fastest-growing Azure services on the market. But even professionals with considerable experience setting up databases for organizations may have questions about this service's features, simply due to how different it is from other Microsoft home-grown data platforms. This course was designed to help answer these questions. Join instructor Sidney Andrews as he helps you get up and running with this fully managed and globally distributed database service. Sidney delves into the individual Cosmos DB APIs and models, as well as its architecture. He then covers a variety of key concepts, including how to configure security for your account, customize your account using key settings, and more.

### Learning objectives

* Azure Cosmos DB APIs
* Key components of an Azure Cosmos DB account
* Logical and physical partitions
* Configuring an Azure Cosmos DB account for global scale
* Determining appropriate throughput amounts for containers
* Configuring security for your account
* Configuring throughput
* Index policies

### Skills covered in this course

* [Azure Cosmos DB](https://www.linkedin.com/learning/search?keywords=Azure%20Cosmos%20DB&u=42751868)
* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Database Design](https://www.linkedin.com/learning/search?keywords=Database%20Design&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Cosmos DB: Import, Manipulate, Index and Query**

<https://www.linkedin.com/learning/cosmos-db-import-manipulate-index-and-query/welcome?u=42751868>

**Course details**

2h 53m Intermediate Released: 8/23/2017

Azure Cosmos DB is a multi-model database that's globally distributed, and scales remarkably well. In addition to boasting 99.99 % availability within a region, Cosmos DB offers several well-defined consistency models: strong, bounded-staleness, session, eventual, and consistent prefix. In this course, take a coding deep dive into development with Azure Cosmos DB. Instructor Chandler Dhall discusses data import scenarios and data manipulation with stored procedures, as well as querying and indexing.

**Learning objectives**

* Data import scenarios
* Creating a database
* Creating a partitioned collection
* Data manipulation
* Importing documents with a stored procedure
* User-defined functions
* Excluding indexing at a document level
* Range indexing on strings
* Querying with SQL parameters
* Range operations

**Skills covered in this course**

* [Azure Cosmos DB](https://www.linkedin.com/learning/search?keywords=Azure%20Cosmos%20DB&u=42751868)
* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)

**Azure Storage for Developers: Blobs**

**Introduction to Azure Storage**

<https://www.linkedin.com/learning/azure-storage-for-developers-blobs/introduction-to-azure-storage?u=42751868>

**Course details**

2h 9m Intermediate Released: 12/13/2018

Take a deep dive into Azure Blob storage, an object storage solution for the cloud that's ideal for storing a wide variety of unstructured data. In this installment of *Azure Storage for Developers*, instructor Anton Delsink helps you understand how to best leverage this key part of the Azure Storage service. To begin, Anton demonstrates how to create a storage account and take steps to ensure that your stored data is secure. He then covers blobs, explaining how to connect to blob containers; work with the different types of blobs, including append bobs and block blobs; and create a shared access signature to control access to a blob. To wrap up, he covers the performance constraints of Azure Blob storage and discusses how to deploy Azure content distribution network (CDN).

**Learning objectives**

* Creating a Blob storage account
* Stored access policies for granting privileges
* Shared access signatures
* Encrypting data at rest
* Connecting to blob containers
* Working with append and block blobs
* Azure Storage metadata
* Blob performance considerations

**Skills covered in this course**

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)
* [Cloud Storage](https://www.linkedin.com/learning/search?keywords=Cloud%20Storage&u=42751868)

# Azure Storage for Developers: Tables

## Introduction to Azure storage tables

<https://www.linkedin.com/learning/azure-storage-for-developers-tables/what-you-should-know?u=42751868>

**Course details**

1h 43m Intermediate Released: 12/10/2018

Azure Table storage tables allow developers to store structured NoSQL data in the cloud. In this installment of the *Azure Storage for Developers* series, learn how to most effectively leverage this cost-effective service. Instructor Anton Delsink explains how to create a storage account and take steps to configure security, including how to use shared access signatures and encrypt data at rest. He then introduces Azure Table storage, explaining how to create and query tables. Finally, he goes over Cosmos DB, a multi-modal database offering in Microsoft Azure that includes an API compatible with Azure Storage tables.

**Learning objectives**

* Creating a Blob storage account
* Stored access policies for granting privileges
* Shared access signatures
* Encrypting data at rest
* Connecting to and creating a table
* Creating entities
* Querying tables
* Performance constraints of Azure Storage tables

**Skills covered in this course**

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)
* [Cloud Storage](https://www.linkedin.com/learning/search?keywords=Cloud%20Storage&u=42751868)

# Learning Azure Storage for Developers

## Introduction to Azure Storage

<https://www.linkedin.com/learning/learning-azure-storage-for-developers/introduction-to-azure-storage?u=42751868>

### Course details

1h 7m Beginner Released: 12/18/2018

Azure Storage is an important part of the Microsoft Azure developer toolkit. In this course, Anton Delsink provides a high-level overview of what Azure Storage is, as well as a brief look at the options available to developers: table, file, queue, and blob-based storage. Anton starts the course with a tour of the Azure portal and an explanation of how to create both a general-purpose storage account and a Blob storage account. Next, he covers important security and deployment topics that apply across all storage options. To wrap up, he briefly goes over each storage area. For a more in-depth exploration of each storage area—files, tables, blobs, and queues—check out additional courses in the *Azure Storage for Developers* series.

### Learning objectives

* Creating general-purpose and Blob storage accounts
* Shared key authentication
* Using shared access signatures (SAS)
* Granting privileges with stored access policies
* Encrypting data at rest
* Deploying Azure storage accounts from the command line
* Deploying Azure storage accounts using PowerShell
* Storage types, including blobs, tables, queues, and files

### Skills covered in this course

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)
* [Cloud Storage](https://www.linkedin.com/learning/search?keywords=Cloud%20Storage&u=42751868)

# Azure Service Fabric for Developers

## Increase reliability, performance, and scalability with Azure Service Fabric

<https://www.linkedin.com/learning/azure-service-fabric-for-developers/increase-reliability-performance-and-scalability-with-azure-service-fabric?u=42751868>

Azure Service Fabric handles infrastructure needs, deployment, and scaling, allowing developers to spend more time on features. Service Fabric powers core Azure infrastructure and other Microsoft services, and you can use this technology in your own software solutions to achieve high-availability, better reliability, scalability, and performance. In this course, learn about the platform's main benefits, as well as how to build Service Fabric applications for the cloud or on premises. Instructor Rodrigo Díaz Concha details the benefits of Service Fabric as a distributed microservices platform, the Service Fabric application model, as well as its overall development cycle. He also shows how to create Service Fabric clusters from the Azure Portal and CLI, develop container-based Service Fabric microservices solutions, and more.

### Learning objectives

* Benefits of Service Fabric as a distributed microservices platform
* Managing your local Service Fabric cluster
* Scaling a Service Fabric cluster
* Creating Service Fabric clusters from the Azure Portal
* Creating Service Fabric stateless reliable services
* Developing container-based Service Fabric solutions
* Updating Service Fabric applications

### Skills covered in this course

* [Service Deployment](https://www.linkedin.com/learning/search?keywords=Service%20Deployment&u=42751868)
* [Azure Service Fabric](https://www.linkedin.com/learning/search?keywords=Azure%20Service%20Fabric&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)

# Scaling Applications with Microsoft Azure

## Why scaling applications is important

<https://www.linkedin.com/learning/scaling-applications-with-microsoft-azure/why-scaling-applications-is-important?u=42751868>

**Course details**

1h 30m Intermediate Released: 3/19/2019

A key benefit of cloud services is the ability to scale to meet changing demands. In Microsoft Azure, developers need to understand autoscaling through roles, configurations, and appropriate code for various instances. In this course, instructor Tiago Costa introduces key autoscaling concepts and prepares developers for optimal configurations and coding, sharing best practices along the way. He explores scaling options in Microsoft Azure; demonstrates how to configure and write code for autoscale; and explains how to configure and develop code to implement Azure CDN.

**Learning objectives**

* Scaling options in Azure
* Scheduling scaling in an App Service plan
* Configuring autoscale
* Writing code for autoscale
* Configuring Azure CDN
* Developing code to implement Azure CDN

**Skills covered in this course**

* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Exploring Performance and Scale with Data Options in Azure**

**Azure data options for modern cloud apps**

**Course details**

2h 11m Advanced Released: 11/8/2019

Relational engines can be a solid choice for working with data, but Microsoft Azure offers many additional options, each with its own unique performance characteristics, features, and capabilities. In this course, Mike Benkovich explores what those options are and how to get the most from your investment. Mike explores storage options, including relational, NoSQL, and document databases, showing the pros and cons of each one. He steps through how to convert a real application that uses SQL Server to use Cosmos DB and Azure Storage. Plus, he looks at how to leverage storage patterns to make the most out of your investment in the cloud.

**Learning objectives**

* Creating modern data applications
* Working with relational databases
* Cloud features of Azure SQL
* Working with Cosmos DB
* Using Azure Storage

**Skills covered in this course**

* [SQL Azure](https://www.linkedin.com/learning/search?keywords=SQL%20Azure&u=42751868)
* [Azure Cosmos DB](https://www.linkedin.com/learning/search?keywords=Azure%20Cosmos%20DB&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)
* [Cloud Storage](https://www.linkedin.com/learning/search?keywords=Cloud%20Storage&u=42751868)

**Azure Serverless Computing**

<https://www.linkedin.com/learning/azure-serverless-computing/welcome?u=42751868>

**Course details**

2h 6m Intermediate Released: 7/9/2018

You may already be familiar with platform as a service (PaaS), but this course takes you further by teaching you how to work with several of the serverless options available in Azure. First, Mike Benkovich explains serverless computing. Next, he introduces you to stream analytics, Event Hubs, advanced queries, and functions. Follow along in the demo apps to practice IoT provisioning, provisioning an ASA job, and more.

**Learning objectives**

* Serverless computing scenarios
* Provisioning IoT Hub services
* Provisioning and configuring an ASA job
* Monitoring job performance
* Provisioning an event hub
* Stream Analytics query language
* Creating, managing, monitoring functions
* Deployment options for functions
* Developing a Visual Studio function project
* Developing with Logic apps

**Skills covered in this course**

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# DevOps Foundations: Going Cloud Native

## Starting the cloud-native journey

<https://www.linkedin.com/learning/devops-foundations-going-cloud-native/starting-the-cloud-native-journey?u=42751868>

Cloud native is one of the fastest growing trends in cloud computing. However, making the switch to cloud native while maintaining a large enterprise’s existing applications, architectures, and assets can be difficult. Discover a roadmap to bring the cloud-native paradigm to your organization, with minimal disruption. Engineer and instructor Karthik Gaekwad presents the information senior executives—CTOs, vice presidents, and chief architects—need to know to embrace cloud native. Explore the benefits and challenges of cloud-native platforms like Kubernetes and find out how to take the first step towards transformation: assessing your current infrastructure and planning for the future. Learn the high-level strategies that will help you succeed, and find how to prioritize efforts like DevOps, continuous integration, continuous delivery, microservices, security, and organizational alignment. Plus, get Karthik’s recommendations for aligning all the pieces of the cloud-native puzzle, so you can hit the ground running.

**Skills covered in this course**

* [DevOps](https://www.linkedin.com/learning/search?keywords=DevOps&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)

# Learning Cloud Computing: The Cloud and DevOps

<https://www.linkedin.com/learning/learning-cloud-computing-the-cloud-and-devops-2/welcome?u=42751868>

### Course details

1h 48m Beginner + Intermediate Released: 6/12/2018

Move DevOps to the cloud and become more agile at software development and operations. This course explains how to set up a cloud-based DevOps process and leverage services offered by Amazon, Microsoft, and Google. Cloud computing expert David Linthicum first introduces the business case for DevOps in the cloud, which can ensure scalable and continuous delivery, testing, integration, and deployment for organizations of any size. He then explains how to establish a DevOps process on the cloud, and reviews DevOps solutions offered in Amazon Web Services, Microsoft Azure, and Google Cloud Platform. Plus, review some use cases that demo real-world implementations of DevOps services on the cloud.

### Learning objectives

* DevOps on the cloud
* Continuous delivery, testing, integration, and deployment
* Creating your own DevOps processes
* Defining logical and physical processes
* Selecting cloud services: AWS, Google, Microsoft, and others
* DevOps use cases

### Skills covered in this course

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)

# DevOps for the Database with TFS 2018

<https://www.linkedin.com/learning/devops-for-the-database-with-tfs-2018/welcome?u=42751868>

### Course details

3h 34m Intermediate Released: 3/8/2018

Having well-managed SQL Server databases is critical to the successful operation of business applications. In this course, learn how to add version control to a database using Team Foundation Server (TFS) 2018. This course covers the end-to-end DevOps life cycle of putting a database under version control and carrying out deployments through a release pipeline. First, an overview of tooling solutions is discussed. Next, configuring a database for version control is shown. Then, building a database is demonstrated, followed by release management and making deployments. Additionally, testing databases and troubleshooting real-world issues are each explored.

### Learning objectives

* Team Foundation Server (TFS) 2018
* SQL Server Data Tools (SSDT)
* Configuring version control of a SQL database
* Installing and importing a database
* Setting up users, team build, agents, and pipelines
* Handling changes, branching, and merging
* Making local deployments
* Building a database for SQL Server
* Continuous integration
* Continuous deployment
* Working with multiple groups and environments
* Testing databases using frameworks
* Working with static data and data motion
* Versioning a database

### Skills covered in this course

* [Azure DevOps Server](https://www.linkedin.com/learning/search?keywords=Azure%20DevOps%20Server&u=42751868)
* [Software Design](https://www.linkedin.com/learning/search?keywords=Software%20Design&u=42751868)
* [Microsoft SQL Server](https://www.linkedin.com/learning/search?keywords=Microsoft%20SQL%20Server&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Azure Administration: Load Balancers and Application Gateways

## External and internal load balancers

<https://www.linkedin.com/learning/azure-administration-load-balancers-and-application-gateways/external-and-internal-load-balancers?u=42751868>

### Course details

1h 8m Intermediate Released: 11/15/2019

Load balancing is a crucial tool within a computing environment, allowing for high availability as traffic is distributed across servers. In this course, David Carrasco López covers key considerations for effectively implementing Azure load balancers and Azure Application Gateway for distributing web apps. Throughout the course, David provides hands-on demonstrations for creating and configuring load balancers using the Azure portal and PowerShell. He also covers how to configure health probes and rules, as well as how to configure a web application firewall. The concepts covered in this course can also help you prepare for the virtual networking portion of the Microsoft Azure Administrator exam (AZ-103).

### Learning objectives

* External and internal load balancers
* Configuring a load balancer front end and back end
* Configuring load balancing rules
* Creating load balancers using PowerShell
* Creating application gateways using PowerShell
* Configuring a web application firewall

### Skills covered in this course

* [Cloud Administration](https://www.linkedin.com/learning/search?keywords=Cloud%20Administration&u=42751868)
* [API Gateways](https://www.linkedin.com/learning/search?keywords=API%20Gateways&u=42751868)
* [Network Load Balancing](https://www.linkedin.com/learning/search?keywords=Network%20Load%20Balancing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Azure Administration: Manage Identities**

**Manage Azure identities**

### Course details

1h 15m Intermediate Updated: 1/15/2020

This course provides coverage of key concepts related to managing identities in Azure AD. Instructor Sharon Bennett demonstrates how to implement Azure AD and Active Directory Connect, and how to manage users, groups, and identities. Explore how to use PowerShell to create users and groups and how to implement multifactor authentication (MFA.) This course is ideal for Azure administrators managing cloud compute services and can be used as a resource to prepare for the AZ-103: Microsoft Azure Administrator exam.

### Learning objectives

* Managing Azure AD directories
* Creating and managing identities
* Managing hybrid identities
* Creating custom domain names
* Creating and managing users
* Creating and managing groups
* Device settings
* Azure AD Connect
* Multifactor authentication (MFA)
* AZ-103 exam tips

### Skills covered in this course

* [Cloud Administration](https://www.linkedin.com/learning/search?keywords=Cloud%20Administration&u=42751868)
* [Active Directory](https://www.linkedin.com/learning/search?keywords=Active%20Directory&u=42751868)
* [Microsoft Azu](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)re

**Azure Administration: Deploy and Manage Virtual Machines**

**How to manage Azure virtual machines (VMs)**

<https://www.linkedin.com/learning/azure-administration-deploy-and-manage-virtual-machines/how-to-manage-azure-virtual-machines-vms-2?u=42751868>

### Course details

2h 2m Intermediate Updated: 1/15/2020

Take the next step on the path to becoming a Microsoft certified Azure Administrator: Learn how to deploy and manage virtual machines (VMs). This course is designed to teach IT professionals the skills needed to create, deploy, and maintain virtual machines, including configuring virtual networks, automating VM deployment, and implementing backups. This demo-heavy course can also be used as a resource in preparation for the Microsoft Azure Administrator exam (AZ-103) or the Microsoft Azure Architect Technologies exam (AZ-300). Instructor Sharon Bennett also explains how to apply Desired State Configurations via PowerShell, how to use scale sets, and how to move and back up VMs.

### Learning objectives

* Configuring high availability with availability sets
* Configuring virtual networking
* Deploying scale sets
* Configuring metrics
* Automating Azure deployments with templates
* Creating virtual machines
* Applying PowerShell DSC
* Moving and redeploying VMs
* Managing VM backups

### Skills covered in this course

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Azure Administration: Manage Subscriptions and Resources**

<https://www.linkedin.com/learning/azure-administration-manage-subscriptions-and-resources/welcome?u=42751868>

### Course details

1h 26m Intermediate Updated: 7/2/2019

Microsoft Azure continues to make strong headway in public cloud adoptions. With Azure continuing to grow steadily, expertise in this hugely popular cloud computing platform is becoming increasingly more valuable. In this course, instructor Sharon Bennett covers the technical skills needed to successfully manage Azure subscriptions, analyze resource utilization and consumption, and manage resource groups. Learn how to configure cost center quotas and tagging, create a baseline for resources, configure and apply resource locks, and more. This course provides valuable instruction for any Azure administrator, as well as those preparing for the Microsoft Azure Administrator exam (AZ-103) or the Microsoft Azure Architect Technologies exam (AZ-300).

### Learning objectives

* Managing Azure subscriptions
* Assigning administrator roles and accounts
* Analyzing resource utilization and consumption
* Configuring diagnostic settings on resources using the portal and PowerShell
* Creating a baseline for resources
* Creating and reviewing alerts and metrics in Azure Monitor
* Managing resource groups
* Allocating resource policies using PowerShell

### Skills covered in this course

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)
* [Azure Resource Manager](https://www.linkedin.com/learning/search?keywords=Azure%20Resource%20Manager&u=42751868)

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**Azure Administration Essential Training**

**The essentials of Microsoft Azure**

<https://www.linkedin.com/learning/azure-administration-essential-training/the-essentials-of-microsoft-azure?u=42751868>

### Course details

3h 7m Intermediate Updated: 12/9/2019

Get a cloud administrator's view of Microsoft Azure. David Elfassy covers the essentials of Azure, providing an inside look at working with its cloud-based storage and networking services, which can scale up or down as your organization changes. He goes over Azure management tools, shares tactics for controlling costs, and shows how to manage your Azure account and configure options via PowerShell scripting. Plus, he details how to set up services successfully, including web apps, virtual machines, Active Directory, and VPNs.

### Learning objectives

* Fundamentals of cloud computing
* Controlling Azure costs
* Managing Azure using Azure PowerShell
* Implementing and managing Azure web apps
* Creating and managing virtual machines in Azure
* Exploring Azure Active Directory (AD)
* Creating a virtual network
* Creating network gateways

### Skills covered in this course

* [Cloud Administration](https://www.linkedin.com/learning/search?keywords=Cloud%20Administration&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Automation with Azure Powershell and ARM Templates

<https://www.linkedin.com/learning/automation-with-azure-powershell-and-arm-templates/welcome?u=42751868>

**Course details**

1h 54m Intermediate Released: 7/9/2018

Learn about the automation services available to you when working with Azure Resource Manager (ARM) and PowerShell. Join Azure expert Mike Benkovich as he introduces you to ARM Templates, resource groups, and dashboard customization. He then takes you through the process of creating and deploying a demo application. He also provides a look at infrastructure, advanced functions, and more.

**Learning objectives**

* Installing Azure cmdlets
* Imperative vs. declarative services
* Deployment options
* Developing for DevOps
* Adding parameters
* Working with functions and linked templates
* Customizing dashboards
* Creating a shared resource group
* Infrastructure as code

**Skills covered in this course**

* [Cloud Automation](https://www.linkedin.com/learning/search?keywords=Cloud%20Automation&u=42751868)
* [Cloud Development](https://www.linkedin.com/learning/search?keywords=Cloud%20Development&u=42751868)
* [Azure Automation](https://www.linkedin.com/learning/search?keywords=Azure%20Automation&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

**Planning a Microsoft Cloud Solution**

**Move your IT cloud infrastructure to Azure**

<https://www.linkedin.com/learning/planning-a-microsoft-cloud-solution-2/move-your-it-cloud-infrastructure-to-azure?u=42751868>

**Course details**

2h 16m Beginner + Intermediate Released: 7/24/2018

If you're planning on moving your organization to the cloud, Azure—the popular cloud services platform from Microsoft—is worth a look. In this course, Sharon Bennett provides a thorough introduction to cloud computing, focusing on the various Azure technologies designed to help support and protect your company as it scales. Learn how to build a base of operations with Azure resource groups, virtual networking, and storage—the foundations of your infrastructure—and review the various Azure recovery options that you can leverage to protect both on-premises and Azure workloads. In addition, discover how to set up virtual machines and manage users and access with Azure Active Directory. This introduction is a perfect primer for IT pros who want to move clients to the cloud, and business owners who are looking for more efficient alternatives to a traditional IT infrastructure.

**Learning objectives**

* Identify the Azure service which provides workload and virtual machine protection.
* Explain what the geo-redundant replication option does when creating a virtual storage in Azure.
* Name the steps required to add a new Azure Backup.
* Recall the Azure Site Recovery failover option that is reactive and can lead to data loss.
* Explain what a site-to-site VPN gateway does.
* Recognize the option you need to choose for VM size when creating an Azure VM for testing and development with an HDD for storage.

**Skills covered in this course**

* [Cloud Computing](https://www.linkedin.com/learning/search?keywords=Cloud%20Computing&u=42751868)
* [Microsoft Azure](https://www.linkedin.com/learning/search?keywords=Microsoft%20Azure&u=42751868)

# Microsoft Azure Tutorial

<http://microsoftonlineguide.blogspot.com/p/microsoft-tutorials.html>