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Number of active certifications

7

Number of historical certifications

1

Number of exams passed

8

Number of modules completed

408

Duration of modules completed

278 hr 52 min

Active certifications

Certification title	Certification number	Earned on	Expires on
Microsoft Certified: DevOps Engineer Expert	I441-9265	Oct 8, 2022	Oct 9, 2023
Microsoft Certified: Azure Solutions Architect Expert	I544-7899	Feb 4, 2021	Feb 4, 2024
Microsoft Certified: Azure Developer Associate	I742-5125	May 23, 2021	May 24, 2024
Microsoft Certified: Azure Administrator Associate	I795-0357	Mar 7, 2019	Sep 8, 2024
Microsoft Certified: Azure Data Fundamentals	H873-2124	Jun 25, 2021	N/A

Certification title	Certification number	Earned on	Expires on
Microsoft Certified: Azure Fundamentals	H507-2068	Sep 3, 2020	N/A
Microsoft Certified Professional	G828-8643	May 26, 2018	N/A

Passed exams

Exam title	Exam number	Passed date
Designing and Implementing Microsoft DevOps Solutions	AZ-400	Oct 8, 2022
Microsoft Azure Data Fundamentals	DP-900	Jun 25, 2021
Developing Solutions for Microsoft Azure	AZ-204	May 23, 2021
Microsoft Azure Architect Design	AZ-304	Feb 4, 2021
Microsoft Azure Architect Technologies	AZ-303	Jan 23, 2021
Microsoft Azure Fundamentals	AZ-900	Sep 3, 2020
Microsoft Azure Infrastructure and Deployment	AZ-100	Mar 7, 2019
Developing ASP.NET MVC Web Applications	486	May 26, 2018

Historical certifications

Certification title	Certification number	State
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Certification title	Certification number	State
Microsoft Certified: Azure Administrator Associate (Legacy)  Earned on Mar 7, 2019, Expired on Sep 8, 2022	H112-0461	Expired

Modules completed

Module title	Description	Completed on	Duration
Expand query and transaction functionality in Azure Cosmos DB SQL API	Author user-defined functions and triggers using JavaScript in Azure Cosmos DB SQL API.	May 29, 2023	53 min
Build multi-item transactions with the Azure Cosmos DB SQL API	Author stored procedures using JavaScript in Azure Cosmos DB SQL API.	May 29, 2023	39 min
Create resource template for Azure Cosmos DB SQL API	Learn about automated Azure Cosmos DB SQL API resource deployments using the Azure Resource Manager with JSON and Bicep templates.	May 27, 2023	43 min
Write management scripts for Azure Cosmos DB SQL API	Learn how to manage Azure Cosmos DB SQL API accounts, databases, and containers using the Azure CLI.	May 27, 2023	41 min
Implement security in Azure Cosmos DB SQL API	We will learn the different security models that Azure Cosmos DB uses.	May 26, 2023	1 hr
Implement backup and restore for Azure Cosmos DB SQL API	We will learn to use the two backup models Azure Cosmos DB provides.	May 26, 2023	42 min

Module title	Description	Completed on	Duration
Monitor responses and events in Azure Cosmos DB SQL API	We will learn to use a rich set of REST response codes returned by Azure Cosmos DB request to help you analyze potential issues.	May 25, 2023	51 min
Measure performance in Azure Cosmos DB SQL API	We will learn to use Azure Monitor to create and analyze monitoring data for Azure Cosmos DB.	May 25, 2023	42 min
Process bulk data in Azure Cosmos DB SQL API	Perform bulk operations on Azure Cosmos DB in bulk from code using the SDK.	May 24, 2023	33 min
Perform cross-document transactional operations with the Azure Cosmos DB SQL API	Perform operations on multiple items in single logical units of work.	May 24, 2023	37 min
Implement Azure Cosmos DB SQL API point operations	Write code to create, read, update, and delete items in Azure Cosmos DB SQL API.	May 24, 2023	45 min
Configure the Azure Cosmos DB SQL API SDK	Learn how to configure the Azure Cosmos DB SQL API SDK in various ways including how to integrate with the emulator, implement parallelism, and create a custom logger.	May 23, 2023	44 min
Use the Azure Cosmos DB SQL API SDK	Learn about the Microsoft.Azure.Cosmos library, and then download the library to use in a .NET application.	May 23, 2023	45 min

Module title	Description	Completed on	Duration
Create a Content Delivery Network for your Website with Azure CDN and Blob Services	This module looks at how to create and utilize a Content Delivery Network (CDN) within Azure to host commonly used assets, such as images in a website. The module covers Azure CDN rather than third-party integrations, and deals with using Blob Storage as an underlying storage model for stable or non-volatile data.	Apr 2, 2023	1 hr 3 min
Introduction to Azure Cache for Redis	Evaluate how Azure Cache for Redis can improve the performance and scalability of your apps. Describe how Redis provides a critical low-latency and high-throughput data storage solution to modern apps.	Apr 1, 2023	31 min
Prepare for cloud security using the Cloud Adoption Framework	Security is a core consideration for all customers, in every environment. But moving to the cloud is a significant change that requires a shift in your security mindset and approach. The Cloud Adoption Framework provides guidance for this security journey by providing clarity for the processes, best practices, models, and experiences.	Jan 29, 2023	39 min
Innovate applications by using Azure cloud technologies	Innovation is a complex topic that encompasses many disciplines. The agility of the public cloud allows quicker innovation cycles and quicker hypothesis verification. Learn how to use Azure cloud technologies to sustain your organization's innovation requirements.	Jan 29, 2023	56 min
Ensure stable operations and optimization across all supported workloads deployed to the cloud	As workloads are deployed to the cloud, operations are critical to success.	Jan 29, 2023	1 hr 7 min

Module title	Description	Completed on	Duration
Address tangible risks with the Govern methodology of the Cloud Adoption Framework for Azure	Any technical change introduces risk in your cloud environment. Learn how to evaluate risks and implement guardrails to help keep you safe as you adopt the cloud.	Jan 29, 2023	1 hr 16 min
Migrate to Azure through repeatable processes and common tools	The Migrate methodology in the Cloud Adoption Framework guides you through migration to Azure by using repeatable processes and common tools.	Jan 29, 2023	1 hr 6 min
Choose the best Azure landing zone to support your requirements for cloud operations	Azure landing zones help accelerate how you configure your environment to meet your operational requirements.	Jan 29, 2023	1 hr 29 min
Prepare for cloud adoption with a data-driven plan	Prepare for cloud adoption with a data-driven cloud adoption plan from the Cloud Adoption Framework. For new innovations, learn from others who have used the target platforms. For migrations, understand how to evaluate your assets and plan the efforts required to move them to the cloud.	Jan 29, 2023	1 hr 53 min
Prepare for successful cloud adoption with a well-defined strategy	Success in cloud adoption depends on having a clear strategy that helps a team understand executive direction and regularly measure progress. This module will help you capture the cloud adoption strategy you need to drive your success.	Jan 29, 2023	1 hr 12 min
Getting started with the Microsoft Cloud Adoption Framework for Azure	Use the Cloud Adoption Framework getting-started guides to unblock your organization's cloud adoption efforts.	Jan 29, 2023	43 min

Module title	Description	Completed on	Duration
Design a solution to log and monitor Azure resources	Azure Architects design and recommend logging and monitoring solutions.	Jan 29, 2023	23 min
Design authentication and authorization solutions	Azure Architects design and recommend authentication and authorization solutions.	Jan 29, 2023	48 min
Design governance	Azure Architects design and recommend governance solutions.	Jan 29, 2023	36 min
Design a solution for backup and disaster recovery	During this module, you learned how to select appropriate backup solutions for Azure workloads. You also learned how to select appropriate disaster recovery options for these workloads. Having completed this module, you'll now be able to select appropriate backup and recovery solutions for your workloads.	Jan 28, 2023	30 min
Design for high availability	Azure Architects design and recommend highly available solutions.	Jan 28, 2023	27 min
Design migrations	Azure Architects design and recommend migration solutions.	Jan 28, 2023	40 min
Design network solutions	Azure Architects design and recommend network solutions.	Jan 28, 2023	34 min
Design an application architecture	Design an application architecture	Jan 28, 2023	35 min
Design a compute solution	Azure Architects design and recommend compute solutions.	Jan 28, 2023	41 min

Module title	Description	Completed on	Duration
Design data integration	Azure Architects design and recommend data integration solutions.	Jan 28, 2023	34 min
Design a data storage solution for relational data	Azure Architects design and recommend relational data storage solutions.	Jan 28, 2023	41 min
Design a data storage solution for non-relational data	Azure Architects design and recommend non-relational data storage solutions.	Jan 28, 2023	33 min
Introduction to Azure fundamentals	This module introduces you to the basics of Azure. Prepare for AZ-900.	Jan 28, 2023	43 min
Explore Azure Storage services	Learn about the different storage options that are available in Azure Storage. Prepare for AZ-900.	Jan 28, 2023	27 min
Explore Azure networking services	Learn about the core networking resources that are available in Azure, such as Azure Virtual Network, Azure VPN Gateway, and Azure ExpressRoute. Prepare for AZ-900.	Jan 28, 2023	38 min
Secure access to your applications by using Azure identity services	Learn how Azure Active Directory, single sign-on (SSO), multifactor authentication, and Conditional Access can help you manage and secure identities on Azure. Prepare for AZ-900.	Jan 28, 2023	17 min
Describe core Azure architectural components	Learn about Azure subscriptions, management groups, resource groups, Azure Resource Manager, Azure regions, and availability zones. Prepare for AZ-900.	Jan 28, 2023	27 min
Implement integrated cache in Azure Cosmos DB SQL API	Implement, configure, and monitor integrated cache in Azure Cosmos DB SQL API.	Dec 26, 2022	24 min

Module title	Description	Completed on	Duration
Measure index performance in Azure Cosmos DB SQL API	Measure the performance of an indexing policy in Azure Cosmos DB SQL API.	Dec 26, 2022	47 min
Customize an indexing policy in Azure Cosmos DB SQL API	Tune the indexing policy based on your SQL queries in Azure Cosmos DB SQL API.	Dec 26, 2022	43 min
Configure multi-region write in Azure Cosmos DB SQL API	Write data to multiple regions using Azure Cosmos DB SQL API.	Dec 26, 2022	41 min
Use consistency models in Azure Cosmos DB SQL API	Configure consistency on a sliding scale for Azure Cosmos DB SQL API.	Dec 26, 2022	36 min
Configure replication and manage failovers in Azure Cosmos DB	Replicate data across the globe and manage automatic or manual failovers in Azure Cosmos DB.	Dec 26, 2022	39 min
Design a data partitioning strategy	Design a data partitioning strategy	Dec 26, 2022	51 min
Implement a non-relational data model	Implement a non-relational data model	Dec 26, 2022	57 min
Search Azure Cosmos DB SQL API data with Azure Cognitive Search	Index Azure Cosmos DB SQL API data with Azure Cognitive Search.	Dec 26, 2022	32 min
Handle events with Azure Functions and Azure Cosmos DB SQL API change feed	Use Azure Functions bindings to integrate a function with Azure Cosmos DB SQL API.	Dec 26, 2022	46 min

Module title	Description	Completed on	Duration
Consume an Azure Cosmos DB SQL API change feed using the SDK	Process change feed events using the change feed processor in the Azure Cosmos DB SQL API .NET SDK.	Dec 26, 2022	39 min
Customize indexes in Azure Cosmos DB SQL API	Customize indexes in Azure Cosmos DB SQL API	Dec 26, 2022	40 min
Define indexes in Azure Cosmos DB SQL API	Discover indexes and indexing policies in Azure Cosmos DB SQL API.	Dec 26, 2022	43 min
Author complex queries with the Azure Cosmos DB SQL API	Create SQL queries for Azure Cosmos DB SQL API that uses subqueries or cross-products.	Dec 26, 2022	49 min
Query the Azure Cosmos DB SQL API	Author queries for Azure Cosmos DB SQL API using the SQL query language.	Dec 26, 2022	1 hr 1 min
Move data into and out of Azure Cosmos DB SQL API	Migrate data into and out of Azure Cosmos DB SQL API using Azure services and open-source solutions.	Dec 26, 2022	52 min
Configure Azure Cosmos DB SQL API database and containers	Select between the various throughput offerings in Azure Cosmos DB SQL API.	Dec 26, 2022	36 min
Plan Resource Requirements	Familiarize yourself with the various configuration options for a new Azure Cosmos DB SQL API account.	Dec 26, 2022	23 min
Try Azure Cosmos DB SQL API	Learn how to use the Azure Cosmos DB SQL to create an account, and then use the account to create Cosmos DB resources.	Dec 26, 2022	32 min

Module title	Description	Completed on	Duration
Introduction to Azure Cosmos DB SQL API	Learn about the Azure Cosmos DB SQL API and determine if it is a good fit for your application.	Dec 26, 2022	24 min
Security Monitoring and Governance	Security Monitoring and Governance	Oct 21, 2022	21 min
OWASP and Dynamic Analyzers	OWASP and Dynamic Analyzers	Oct 21, 2022	11 min
Static analyzers	Static analyzers	Oct 21, 2022	12 min
Software Composition Analysis	Software Composition Analysis	Oct 20, 2022	21 min
Implement open-source software	Implement open-source software	Oct 20, 2022	13 min
Introduction to Secure DevOps	Introduction to Secure DevOps	Oct 19, 2022	23 min
Automate inspection of health	Automate inspection of health	Oct 19, 2022	1 hr 17 min
Manage and modularize tasks and templates	Manage and modularize tasks and templates	Oct 18, 2022	17 min
Configure and provision environments	Configure and provision environments	Oct 18, 2022	27 min
Explore release strategy recommendations	Explore release strategy recommendations	Oct 18, 2022	1 hr 33 min

Module title	Description	Completed on	Duration
Create a release pipeline	Create a release pipeline	Oct 16, 2022	1 hr 29 min
Introduction to continuous delivery	Introduction to continuous delivery	Oct 16, 2022	19 min
Learn continuous integration with GitHub Actions	Learn continuous integration with GitHub Actions	Oct 15, 2022	48 min
Introduction to GitHub Actions	Introduction to GitHub Actions	Oct 15, 2022	21 min
Integrate with Azure Pipelines	Integrate with Azure Pipelines	Oct 15, 2022	1 hr 24 min
Implement a pipeline strategy	Implement a pipeline strategy	Oct 15, 2022	12 min
Explore continuous integration	Explore continuous integration	Oct 13, 2022	59 min
Describe pipelines and concurrency	Describe pipelines and concurrency	Oct 13, 2022	20 min
Manage Azure Pipeline agents and pools	Manage Azure Pipeline agents and pools	Oct 13, 2022	1 hr 10 min
Explore Azure Pipelines	Explore Azure Pipelines	Oct 13, 2022	17 min
Manage Git repositories	Manage Git repositories	Oct 12, 2022	16 min

Module title	Description	Completed on	Duration
Plan foster inner source	Plan foster inner source	Oct 12, 2022	17 min
Explore Git hooks	Explore Git hooks	Oct 12, 2022	15 min
Identify technical debt	Identify technical debt	Oct 12, 2022	17 min
Collaborate with pull requests in Azure Repos	Collaborate with pull requests in Azure Repos	Oct 12, 2022	16 min
Manage Git branches and workflows	Manage Git branches and workflows	Oct 12, 2022	59 min
Structure your Git Repo	Structure your Git Repo	Oct 12, 2022	11 min
Plan Agile with GitHub Projects and Azure Boards	Plan Agile with GitHub Projects and Azure Boards	Oct 12, 2022	32 min
Describe Azure storage services	Azure storage services, tiers, redundancy options, and migration options and tools.	Jul 28, 2022	44 min
Describe Azure compute and networking services	Introduction to Azure compute services (virtual machines, Azure Virtual Desktop, Azure Functions) and networking services (virtual networks, ExpressRoute, DNS, etc.).	Jul 28, 2022	1 hr 8 min
Describe the core architectural components of Azure	Concepts around physical and management architecture for Azure, including data centers and regions, management groups and subscriptions, etc.	Jul 22, 2022	48 min

Module title	Description	Completed on	Duration
Describe cloud service types	Introduction to cloud service types (Infrastructure, Platform, and Software as a Service models) and associated use cases for each.	Jul 21, 2022	12 min
Describe the benefits of using cloud services	Introduction to concepts surrounding cloud computing. Mostly platform agnostic, focused instead on general concepts.	Jul 18, 2022	17 min
Describe cloud computing	Introduction to concepts surrounding cloud computing. Mostly platform agnostic, focused instead on general concepts.	Jul 14, 2022	23 min
Develop for storage on CDNs	Learn how the Azure Content Delivery Network (CDN) functions, how to control cache behavior, and how to perform actions by using .NET.	Jun 1, 2022	18 min
Develop for Azure Cache for Redis	Learn how to configure Azure Cache for Redis, interact with the cache, and connect an application to Azure Cache for Redis by using .NET.	Jun 1, 2022	21 min
Monitor app performance	Learn how to use the tools offered in Application Insights to enhance the performance and stability of your applications.	Jun 1, 2022	27 min
Discover Azure message queues	Learn how to integrate Azure Service Bus and Azure Queue storage in to your solution, and how to send and receive message by using .NET.	Jun 1, 2022	57 min
Explore Azure Event Hubs	Learn how Azure Event Hubs captures events and how to scale your processing application.	May 31, 2022	24 min

Module title	Description	Completed on	Duration
Explore Azure Event Grid	Learn how to integrate Azure Event Grid in to your solution, implement access control to events, and how to route custom events to web endpoint by using Azure CLI.	May 31, 2022	30 min
Explore API Management	Learn how the API Management service functions, how to transform and secure APIs, and how to create a backend API.	May 31, 2022	37 min
Implement managed identities	Implement managed identities	May 31, 2022	21 min
Implement Azure Key Vault	Implement Azure Key Vault	May 31, 2022	21 min
Explore Microsoft Graph	Learn how Microsoft Graph facilitates the access and flow of data and how to form queries through REST and code.	May 29, 2022	21 min
Implement shared access signatures	Learn how to use shared access signatures to authorize access to storage resources.	May 29, 2022	18 min
Implement authentication by using the Microsoft Authentication Library	Learn how to implement authentication by using the Microsoft Authentication Library.	May 29, 2022	25 min
Explore the Microsoft identity platform	Learn the core features and functionality of the Microsoft identity platform which includes authentication service, open-source libraries, and application management tools to enable and control access to resources.	May 29, 2022	21 min
Implement Azure App Configuration	Implement Azure App Configuration	May 24, 2022	21 min

Module title	Description	Completed on	Duration
Design and implement network monitoring	You will learn to design and implement network monitoring solutions such as Azure Monitor and Network watcher.	Apr 11, 2022	44 min
Design and implement private access to Azure Services	You will learn to design and implement private access to Azure Services with Azure Private Link, and virtual network service endpoints.	Apr 11, 2022	1 hr 30 min
Design and implement network security	You will learn to design and implement network security solutions such as Azure DDoS, Azure Firewall, Network Security Groups, and Web Application Firewall.	Apr 11, 2022	1 hr 26 min
Load balance HTTP(S) traffic in Azure	You will learn how to design load balancer solutions for HTTP(S) traffic and how to implement Azure Application gateway and Azure Front Door.	Apr 10, 2022	1 hr 6 min
Load balance non-HTTP(S) traffic in Azure	You will learn the different load balancer options in Azure and how to choose and implement the right Azure solution for non-HTTP(S) traffic.	Apr 10, 2022	1 hr 2 min
Design and implement Azure ExpressRoute	You will learn how to design and implement Azure ExpressRoute, ExpressRoute Global Reach, ExpressRoute FastPath, and when to use each service according to your environments requirements.	Apr 10, 2022	1 hr 18 min
Design and implement hybrid networking	You will learn how to design and implement hybrid networking solutions such as Site-to-Site VPN connections, Point-to-Site VPN connections, Azure Virtual WAN, and Virtual WAN hubs.	Apr 10, 2022	1 hr 3 min

Module title	Description	Completed on	Duration
Build reusable Bicep templates by using parameters	Control and apply parameters to a Bicep template while protecting sensitive inputs.	Apr 9, 2022	39 min
Build your first Bicep template	Learn how to create Bicep templates and create reusable infrastructure as code.	Apr 8, 2022	45 min
Introduction to Azure Virtual Networks	In this module, you will learn how to design and implement fundamental Azure Networking resources such as virtual networks, public and private IPs, DNS, virtual network peering, routing, and Azure Virtual NAT.	Apr 8, 2022	1 hr 18 min
Integrate AKS with pipelines	Integrate AKS with pipelines	Mar 14, 2022	13 min
Explore Kubernetes tooling	Explore Kubernetes tooling	Mar 14, 2022	9 min
Implement Azure Kubernetes Service (AKS)	Implement Azure Kubernetes Service (AKS)	Mar 14, 2022	22 min
Implement Docker multi-stage builds	Implement Docker multi-stage builds	Mar 14, 2022	16 min
Design a container build strategy	Design a container build strategy	Mar 14, 2022	20 min
Evaluate performance improvements	Evaluate performance improvements	Mar 13, 2022	45 min
Describe SQL Server query plans	Describe SQL Server query plans	Mar 13, 2022	1 hr 4 min

Module title	Description	Completed on	Duration
Back up and restore databases	Back up and restore databases	Mar 13, 2022	41 min
Explore IaaS and PaaS platform tools for high availability and disaster recovery	Explore IaaS and PaaS platform tools for high availability and disaster recovery	Mar 13, 2022	53 min
Describe high availability and disaster recovery strategies	Describe high availability and disaster recovery strategies	Mar 13, 2022	59 min
Evaluate strategies for migrating SQL Databases to Azure	Evaluate strategies for migrating SQL Databases to Azure	Mar 13, 2022	22 min
Putting it all together with Azure SQL	Putting it all together with Azure SQL	Mar 13, 2022	54 min
Deploy highly available solutions by using Azure SQL	In this module, you'll learn how to deploy highly available solutions by using Azure SQL. You'll also look at architectures and how they affect availability.	Mar 13, 2022	1 hr 34 min
Deliver consistent performance with Azure SQL	Deliver consistent performance with Azure SQL	Mar 13, 2022	1 hr 24 min
Secure your data with Azure SQL	Secure your data with Azure SQL	Mar 13, 2022	1 hr 24 min
Deploy and configure servers, instances, and databases for Azure SQL	Deploy and configure servers, instances, and databases for Azure SQL	Mar 13, 2022	1 hr 14 min

Module title	Description	Completed on	Duration
Introduction to Azure SQL	This module introduces Azure SQL. Learn about various deployment options and service tiers and what to use for your organization.	Mar 13, 2022	44 min
Implement Terraform	Implement Terraform	Mar 13, 2022	25 min
Implement Ansible	Implement Ansible	Mar 13, 2022	25 min
Introduction to Chef and Puppet	Introduction to Chef and Puppet	Mar 13, 2022	17 min
Implement Desired State Configuration (DSC)	Implement Desired State Configuration (DSC)	Mar 13, 2022	23 min
Explore Azure Automation with DevOps	Explore Azure Automation with DevOps	Mar 13, 2022	30 min
Create Azure resources by using Azure CLI	Create Azure resources by using Azure CLI	Mar 13, 2022	14 min
Create Azure resources using Azure Resource Manager templates	Create Azure resources using Azure Resource Manager templates	Mar 13, 2022	19 min
Explore infrastructure as code and configuration management	Explore infrastructure as code and configuration management	Mar 13, 2022	14 min
Work with Azure Repos and GitHub	Work with Azure Repos and GitHub	Mar 12, 2022	20 min

Module title	Description	Completed on	Duration
Describe types of source control systems	Describe types of source control systems	Mar 12, 2022	26 min
Introduction to source control	Introduction to source control	Mar 12, 2022	17 min
Migrate to DevOps	Migrate to DevOps	Mar 12, 2022	16 min
Describe team structures	Describe team structures	Mar 12, 2022	22 min
Choose the right project	Choose the right project	Mar 12, 2022	20 min
Introduction to DevOps	Introduction to DevOps	Mar 12, 2022	21 min
Understand API gateways in a cloud-native ASP.NET Core microservices app	This module guides you through implementing BFF in an ASP.NET Core microservices app.	Jan 27, 2022	1 hr 10 min
Implement resiliency in a cloud-native ASP.NET Core microservice	This module guides you through implementing resiliency in an ASP.NET Core microservices app in Azure Kubernetes Service.	Jan 26, 2022	1 hr
Azure Kubernetes Service Workshop	In this workshop, you'll go through tasks to deploy a multicontainer application to Kubernetes on Azure Kubernetes Service (AKS).	Jan 26, 2022	2 hr 25 min

Module title	Description	Completed on	Duration
Run container images in Azure Container Instances	Learn how Azure Container Instances can help you quickly deploy containers, how to set environment variables, and specify container restart policies.	Nov 8, 2021	31 min
Manage container images in Azure Container Registry	Learn how to use Azure Container Registry to store your container images, and automate builds and deployments.	Nov 8, 2021	31 min
Create and deploy Azure Resource Manager templates	Learn how Azure Resource Manager (ARM) can help streamline deployments, choose the correct deployment mode for your solution, and create and deploy an ARM template.	Nov 8, 2021	31 min
Provision virtual machines in Azure	Learn the availability and sizing options of Azure Virtual Machines, and how to create a virtual machine by using the Azure CLI.	Nov 8, 2021	28 min
Work with Azure Blob storage	Learn how to use the Azure Blob storage client library to create and update Blob storage resources.	Nov 8, 2021	33 min
Manage the Azure Blob storage lifecycle	Learn how to manage data availability throughout the Azure Blob storage lifecycle.	Nov 8, 2021	21 min
Explore Azure Blob storage	Learn the core features and functionality of Azure Blob storage.	Nov 8, 2021	31 min
Build serverless apps with Go	You can build serverless apps by using almost any programming language that supports HTTP primitives. By using custom handlers, you can choose a runtime that suits you.	Nov 8, 2021	26 min

Module title	Description	Completed on	Duration
Work with Azure Cosmos DB	Learn how to develop client and server-side programming solutions on Azure Cosmos DB.	Nov 7, 2021	35 min
Implement partitioning in Azure Cosmos DB	Learn how partitions are organized in Azure Cosmos DB and how to choose an appropriate partition key for your solution.	Nov 7, 2021	20 min
Explore Azure Cosmos DB	Learn the core features and functionality of Azure Cosmos DB.	Nov 7, 2021	39 min
Implement Durable Functions	Learn how Durable Functions can simplify complex, stateful coordination requirements in serverless applications.	Nov 7, 2021	32 min
Develop Azure Functions	Learn how to create and deploy Azure Functions.	Nov 7, 2021	33 min
Explore Azure Functions	Learn how Azure Functions can be a great solution for data processing, systems integration, and building simple APIs and microservices.	Nov 7, 2021	18 min
Explore Azure App Service deployment slots	Explore Azure App Service deployment slots	Nov 7, 2021	21 min
Scale apps in Azure App Service	Scale apps in Azure App Service	Nov 7, 2021	21 min
Configure web app settings	Learn how to create and manage application settings, install SSL/TLS certificates to secure web traffic, enable diagnostic logging, and create virtual app to directory mappings.	Nov 6, 2021	27 min

Module title	Description	Completed on	Duration
Explore Azure App Service	Learn about the key components of Azure App Service and how App Service can help you create, maintain, and deploy web apps more efficiently.	Nov 4, 2021	39 min
Capture and view page load times in your Azure web app with Application Insights	In this module, you'll configure Application Insights and use it to study page load data for an Azure web app.	Oct 13, 2021	45 min
Monitor performance of virtual machines by using Azure Monitor VM Insights	Learn how to use Azure Monitor VM Insights to monitor your organization's Azure virtual machines.	Oct 13, 2021	48 min
Protect your Azure Virtual Desktop deployment by using Azure Firewall	Learn how to deploy and configure Azure Firewall to protect outbound network traffic for Azure Virtual Desktop.	Oct 13, 2021	1 hr 18 min
Protect your virtual machine settings with Azure Automation State Configuration	Learn how to protect your virtual machine settings with Azure Automation State Configuration	Oct 13, 2021	54 min
Deploy Azure infrastructure by using JSON ARM templates	Write JSON Azure Resource Manager templates by using Visual Studio Code to deploy your infrastructure to Azure consistently and reliably.	Oct 13, 2021	43 min
Keep your virtual machines updated	Learn to use Azure Update Management to update virtual machines, verify agent connectivity, and use Azure Log Analytics in your cloud environment.	Oct 13, 2021	35 min

Module title	Description	Completed on	Duration
Fundamentals of network security	Explore the fundamentals of computer networking security and monitoring.	Oct 13, 2021	36 min
Fundamentals of computer networking	You'll learn the fundamental principles of computer networking to prepare you for the Azure admin and developer learning paths.	Oct 13, 2021	47 min
Build Serverless APIs with Azure Functions	Use Visual Studio Code to build a JavaScript and Vue.js dashboard with a Serverless API powered by Azure Functions and Node.js.	Sep 17, 2021	41 min
Introduction to Docker containers	Introduction to Docker containers	Sep 11, 2021	32 min
Protect your servers and VMs from brute-force and malware attacks with Microsoft Defender for Cloud	Stop hackers from getting into your Windows and Linux servers. In this module, you'll discover how to protect VMs and servers with Microsoft Defender for Cloud	Sep 11, 2021	44 min
Use recommended tools to create a data-flow diagram	You can use any canvas, physical or virtual, to create a data-flow diagram. Engineers at Microsoft recommend three tools to help you in your threat modeling journey.	Sep 11, 2021	18 min
Prioritize your issues and apply security controls	Threat modeling provides you with a list of threats and ways to reduce or eliminate risk, but it doesn't prioritize them for you. Also, there are no layered security control recommendations based on their type and function.	Sep 11, 2021	14 min
Use a framework to identify threats and find ways to reduce or eliminate risk	Threat modeling helps you generate a list of potential threats using STRIDE and find ways to reduce or eliminate risk with corresponding security controls.	Sep 11, 2021	57 min

Module title	Description	Completed on	Duration
Approach your data-flow diagram with the right threat model focus	Threat modeling is an effective technique to help you identify threats and ways to reduce or eliminate risk. We start by deciding to focus on either what needs to be protected or who it needs protection from.	Sep 11, 2021	8 min
Provide context with the right depth layer	Threat models can get complex if all parties involved cannot agree on a data-flow diagram depth layer that provides enough context to satisfy requirements	Sep 11, 2021	26 min
Create a threat model using data-flow diagram elements	Data-flow diagrams are graphical representations of your system and should specify each element, their interactions and context.	Sep 8, 2021	42 min
Introduction to threat modeling	Explore the four high-level steps of threat modeling.	Sep 8, 2021	27 min
Safeguard your environment with Microsoft Defender for Identity	Learn about the Microsoft Defender for Identity component of Microsoft 365 Defender.	Sep 8, 2021	1 hr 8 min
Remediate risks with Microsoft Defender for Office 365	Learn about the Microsoft Defender for Office 365 component of Microsoft 365 Defender.	Sep 8, 2021	49 min
Protect against threats with Microsoft Defender for Endpoint	Learn how Microsoft Defender for Endpoint can help your organization stay secure.	Sep 8, 2021	1 hr 12 min
Introduction to threat protection with Microsoft 365	Learn about cybersecurity threats and how the new threat protection tools from Microsoft protect your organization's users, devices, and data.	Sep 8, 2021	28 min

Module title	Description	Completed on	Duration
Getting Started with Microsoft Identity	Learn the basics of Microsoft identity including the different types of tokens, account types, and supported topologies.	Sep 8, 2021	1 hr 10 min
Resolve security threats with Microsoft Defender for Cloud	In this module, you'll use the alert capabilities of Microsoft Defender for Cloud to watch for and respond to threats.	Sep 8, 2021	44 min
Identify security threats with Microsoft Defender for Cloud	Master securing your Azure workloads with Microsoft Defender for Cloud. In this module, you'll discover how to detect and respond to threats with Microsoft Defender for Cloud.	Sep 8, 2021	43 min
Secure your application by using OpenID Connect and Azure AD	In this module, you will learn how to enable users to authenticate in multiple systems by using their Azure AD identities.	Sep 8, 2021	50 min
Create security baselines	Create security baselines	Sep 8, 2021	1 hr
Introduction to securing data at rest on Azure	Identify the data in your organization and store it on Azure. Store secrets securely, and use client-side encryption and Storage Service Encryption to help protect your data.	Sep 8, 2021	30 min
Encrypt network traffic end to end with Azure Application Gateway	Secure the traffic from your users all the way to your web servers by enabling TLS encryption on Application Gateway.	Sep 8, 2021	1 hr 17 min
Secure network connectivity on Azure	Learn about the Azure services you can use to help ensure that your network is safe, secure, and trusted. Prepare for AZ-900.	Sep 8, 2021	34 min

Module title	Description	Completed on	Duration
Enterprise-scale architecture operational design principles	Learn how to operationalize an Azure enterprise estate by using centralized management to enable the organization's path to the cloud.	Jun 29, 2021	44 min
Network design principles for enterprise-scale architecture	Network design principles for enterprise-scale architecture	Jun 29, 2021	54 min
Enterprise-scale architecture organizational design principles	Enterprise-scale architecture organizational design principles	Jun 29, 2021	34 min
Introduction to enterprise-scale landing zones in the Microsoft Cloud Adoption Framework for Azure	The Microsoft Cloud Adoption Framework for Azure provides many landing zone options. This module focuses on enterprise-scale landing zones.	Jun 28, 2021	34 min
Monitor the health of your Azure virtual machine by using Azure Metrics Explorer and metric alerts	Learn how to monitor the health of your Azure VMs by using Azure Metrics Explorer and metric alerts.	Jun 28, 2021	43 min
Capture Web Application Logs with App Service Diagnostics Logging	Learn about how to capture trace output from your Azure web apps. View a live log stream and download logs files for offline analysis.	Jun 28, 2021	55 min
Introduction to Site Reliability Engineering (SRE)	Learn about SRE, an engineering discipline that helps you sustainably achieve the appropriate level of reliability in your systems, services, and products.	Jun 28, 2021	55 min

Module title	Description	Completed on	Duration
Manage site reliability	Learn how to manage site reliability.	Jun 28, 2021	35 min
Route system feedback to development teams	Learn how continuous monitoring and dashboards give you insight into how customers use your software and where patterns of failure occur.	Jun 28, 2021	22 min
Recommend and design system feedback mechanisms	N/A	Jun 28, 2021	49 min
Improve your reliability with modern operations practices: Capacity planning and scaling	Learn about capacity planning and scaling practices that can help you sustainably achieve the appropriate level of reliability in your systems, services, and products.	Jun 28, 2021	32 min
Improve your reliability with modern operations practices: Deployment	Learn about deployment practices that can help you sustainably achieve the appropriate level of reliability in your systems, services, and products.	Jun 28, 2021	18 min
Improve your reliability with modern operations practices: Learning from failure	Learn about post-incident reviews, a practice necessary to help you sustainably achieve the appropriate level of reliability in your systems, services, and products.	Jun 28, 2021	34 min
Improve your reliability with modern operations practices: Incident response	Learn the incident response fundamentals necessary to help you sustainably achieve the appropriate level of reliability in your systems, services, and products.	Jun 28, 2021	33 min

Module title	Description	Completed on	Duration
Improve your reliability with modern operations practices: Monitoring	Learn how to use monitoring to help you sustainably achieve the appropriate level of reliability in your systems, services, and products.	Jun 28, 2021	43 min
Improve your reliability with modern operations practices: An introduction	Discover a map for navigating reliability challenges and sustainably achieving the appropriate level of reliability in your systems, services, and products.	Jun 27, 2021	10 min
Microsoft Azure Well-Architected Framework - Security	Discover the tools that Azure provides to help you design a secure environment throughout your infrastructure, data, network, and applications.	Jun 26, 2021	1 hr 2 min
Microsoft Azure Well-Architected Framework - Reliability	Learn how to recover from infrastructure and service failure, loss of data, and disasters by incorporating reliability into your architecture.	Jun 26, 2021	59 min
Microsoft Azure Well-Architected Framework - Performance efficiency	Learn how to adjust your capacity based on workload and how to optimize network performance, storage, and database performance.	Jun 26, 2021	48 min
Microsoft Azure Well-Architected Framework - Operational excellence	Learn how to design an Azure architecture that uses modern practices and gives you full visibility into what's happening in your environment.	Jun 26, 2021	54 min

Module title	Description	Completed on	Duration
Microsoft Azure Well-Architected Framework - Cost optimization	Learn how to use the cost optimization pillar of the Microsoft Azure Well-Architected Framework to design a cloud-based architecture that is efficient, eliminates waste, and gives you full visibility into where your money is spent on cloud resources.	Jun 26, 2021	51 min
Introduction to the Microsoft Azure Well-Architected Framework	Learn how using key principles throughout your cloud architecture can help you design and build a solid architectural foundation that you can continuously improve.	Jun 26, 2021	1 hr 4 min
Get started building with Power BI	Power BI is a collection of software services and applications that let you connect to all sorts of data sources and create compelling visuals and reports. You can benefit from receiving those reports, or you can share them with others inside or outside your organization. Learn the basics of Power BI, how its services and applications work together, and how they can be used to create or experience compelling visuals and analytics based on your data.	Jun 17, 2021	40 min
Explore data storage and processing in Azure	N/A	Jun 17, 2021	24 min
Explore data ingestion in Azure	N/A	Jun 16, 2021	23 min
Examine components of a modern data warehouse	Examine components of a modern data warehouse	Jun 16, 2021	24 min
Manage non-relational data stores in Azure	Manage non-relational data stores in Azure	Jun 15, 2021	46 min

Module title	Description	Completed on	Duration
Explore provisioning and deploying non-relational data services in Azure	Explore provisioning and deploying non-relational data services in Azure	Jun 15, 2021	57 min
Explore non-relational data offerings in Azure	Explore non-relational data offerings in Azure	Jun 15, 2021	41 min
Query relational data in Azure	Query relational data in Azure	Jun 14, 2021	26 min
Explore provisioning and deploying relational database services in Azure	Explore provisioning and deploying relational database services in Azure	Jun 14, 2021	31 min
Explore relational data services in Azure	Explore relational data services in Azure	Jun 14, 2021	30 min
Explore concepts of data analytics	Explore concepts of data analytics	Jun 13, 2021	15 min
Explore concepts of non-relational data	Explore concepts of non-relational data	Jun 13, 2021	24 min
Describe concepts of relational data	Describe concepts of relational data	Jun 13, 2021	19 min
Explore roles and responsibilities in the world of data	Explore roles and responsibilities in the world of data	Jun 13, 2021	16 min
Explore core data concepts	Explore core data concepts	Jun 10, 2021	25 min

Module title	Description	Completed on	Duration
Protect against security threats on Azure	Learn how Azure can help you protect the workloads that you run both in the cloud and in your on-premises datacenter. Prepare for AZ-900.	May 17, 2021	25 min
Top 5 security items to consider before pushing to production	Learn about the Site Reliability Engineering approach to the challenge of assuring reliability and gain a better understanding of why it matters.	May 17, 2021	45 min
Configure security policies to manage data	Learn how to set up policies to classify, retain, and protect your cloud-based data.	May 17, 2021	39 min
Configure and manage secrets in Azure Key Vault	Configure and manage secrets in Azure Key Vault	May 17, 2021	29 min
Secure your Azure SQL Database	Secure an Azure SQL database to keep the information safe and diagnose potential security concerns as they happen.	May 17, 2021	1 hr 7 min
Stage a web app deployment for testing and rollback by using App Service deployment slots	Discover the benefits of creating deployment slots to streamline deployment and roll back a web app in Azure App Service.	May 15, 2021	44 min
Publish a web app to Azure with Visual Studio	Learn how to use Azure App Service to create a new ASP.NET-based web app, then publish and update directly from Visual Studio.	May 15, 2021	48 min

Module title	Description	Completed on	Duration
Plan and manage your Azure costs	Migration to the cloud presents new ways to think about your IT expenses. This module teaches you about the factors that influence cost and tools you can use to help estimate and manage your cloud spend. Prepare for AZ-900.	May 15, 2021	43 min
Enable automatic updates in a web application using Azure Functions and SignalR Service	Update a web app's notification mechanism from polling to push-based architecture with SignalR Service, Azure Cosmos DB and Azure Functions. Use Vue.js and JavaScript to use SignalR using Visual Studio Code.	May 15, 2021	55 min
Monitor GitHub events by using a webhook with Azure Functions	Discover the benefits of webhooks when you trigger an Azure function with a GitHub webhook and parse the payload for insights.	May 15, 2021	53 min
Develop, test, and deploy an Azure Function with Visual Studio	Use Visual Studio together with a test framework to create, deploy, and test an Azure Function.	May 15, 2021	43 min
Develop, test, and publish Azure Functions by using Azure Functions Core Tools	Find out how to develop an Azure Function in Visual Studio with a test framework to create, deploy, and test this scalable and secure service.	May 15, 2021	20 min
Microsoft Cloud Adoption Framework for Azure	Learn how to use the Cloud Adoption Framework to develop best practices for cloud adoption in real-world scenarios.	Apr 24, 2021	50 min

Module title	Description	Completed on	Duration
Improve session scalability in a .NET Framework ASP.NET web application by using Azure Cache for Redis	Learn how to use Azure Cache for Redis to store session data and improve the scalability of web applications.	Mar 12, 2021	29 min
Implement logging in a .NET Framework ASP.NET web application	Learn how to implement logging in an ASP.NET web application so you can store log data in Azure Blob storage and incorporate log information into Azure Application Insights performance data.	Mar 12, 2021	24 min
Build a .NET Core app for Azure Cosmos DB in Visual Studio Code	Learn how to create a .NET Core application to store and query data in Azure Cosmos DB by using Visual Studio Code.	Mar 12, 2021	54 min
Publish a Blazor WebAssembly app and .NET API with Azure Static Web Apps	Publish a Blazor WebAssembly app and .NET API with Azure Static Web Apps	Mar 12, 2021	38 min
Introduction to Kubernetes	Get acquainted with the Kubernetes open-source container-orchestration system for automating application deployment, scaling, and management.	Mar 11, 2021	53 min
Extend your on-premises file share capacity using Azure File Sync	Evaluate and deploy Azure File Sync to extend the capacity of your on-premises file share.	Mar 4, 2021	1 hr 16 min
Move large amounts of data to the cloud by using Azure Data Box family	Learn how to move large amounts of data to the cloud by using Azure Data Box devices.	Mar 4, 2021	25 min

Module title	Description	Completed on	Duration
Export large amounts of data from Azure by using Azure Import/Export	Learn how and when to use Azure Import/Export to copy large amounts of data from Azure	Mar 4, 2021	24 min
Provide disaster recovery by replicating storage data across regions and failing over to a secondary location	Learn how to provide disaster recovery by replicating storage data across regions and failing over to a secondary location.	Mar 4, 2021	46 min
Troubleshoot inbound network connectivity for Azure Load Balancer	Learn how to troubleshoot inbound network connectivity for Azure Load Balancer.	Mar 4, 2021	1 hr 38 min
Connect to virtual machines through the Azure portal by using Azure Bastion	Learn how to deploy Azure Bastion to securely connect to Azure virtual machines directly within the Azure portal.	Mar 2, 2021	40 min
Configure the network for your virtual machines	Learn how to connect your local on-premises networks into Azure using virtual networks, VPN gateways, and Azure ExpressRoute.	Mar 2, 2021	1 hr 34 min
Build a cloud governance strategy on Azure	Learn how to access policies, resource locks, and tags, as well as how Azure services such as Azure Policy and Azure Blueprints can help you build a comprehensive cloud governance strategy. Prepare for AZ-900.	Feb 19, 2021	48 min
Add custom domain name to Azure Active Directory	Learn how to add custom domain name to Azure Active Directory.	Jan 26, 2021	18 min

Module title	Description	Completed on	Duration
Manage device identity with Azure AD join and Enterprise State Roaming	Learn how to manage device identity by using Azure AD join and Enterprise State Roaming.	Jan 26, 2021	25 min
Move Azure resources to another resource group	Learn how to identify Azure resources you can move, and how to move them to a new resource group.	Jan 26, 2021	42 min
Introduction to analyzing costs and creating budgets with Azure Cost Management	Learn how to use cost analysis to understand how your costs accrue each month.	Jan 26, 2021	40 min
Create custom roles for Azure resources with role-based access control (RBAC)	Learn how to create custom roles for Azure resources with role-based access control (RBAC).	Jan 26, 2021	30 min
Secure your Azure resources with Azure role-based access control (Azure RBAC)	Learn how to use Azure role-based access control to effectively manage your team's access to Azure resources.	Jan 26, 2021	37 min
Allow users to reset their password with Azure Active Directory self-service password reset	Learn how to allow users to reset their password with Azure Active Directory self-service password reset.	Jan 26, 2021	31 min
Manage users and groups in Azure Active Directory	Manage users and groups in Azure Active Directory	Jan 26, 2021	50 min

Module title	Description	Completed on	Duration
Create Azure users and groups in Azure Active Directory	Learn how to create Azure users and groups in Azure Active Directory.	Jan 26, 2021	41 min
Protect your identities with Azure AD Identity Protection	Use the advanced detection and remediation of identity-based threats to protect your Azure Active Directory identities and applications from compromise.	Jan 26, 2021	34 min
Secure Azure Active Directory users with Multi-Factor Authentication	Learn how to use multi-factor authentication with Azure AD to harden your user accounts.	Jan 26, 2021	38 min
Secure your identities by using Azure Active Directory	Use Azure Active Directory to you secure your internal, external, and customer identities.	Jan 24, 2021	27 min
Import data into Azure Synapse Analytics by using PolyBase	N/A	Jan 13, 2021	1 hr 6 min
Design a data warehouse with Azure Synapse Analytics	N/A	Jan 13, 2021	47 min
Design a geographically distributed application	Build an application that spans multiple geographic locations for high availability and resiliency.	Jan 12, 2021	34 min

Module title	Description	Completed on	Duration
Scale an App Service web app to efficiently meet demand with App Service scale up and scale out	Learn how to respond to periods of increased activity by incrementally increasing the resources available and then freeing these resources when activity drops.	Jan 12, 2021	46 min
Dynamically meet changing web app performance requirements with autoscale rules	Respond to periods of high activity by incrementally adding resources, and then removing these resources when activity drops, to reduce costs.	Jan 12, 2021	47 min
Back up and restore your Azure SQL database	Protect the data in your Azure SQL database and recover from data loss or corruption with backup and restore.	Jan 12, 2021	41 min
Protect your Azure infrastructure with Azure Site Recovery	Provide disaster recovery for your Azure infrastructure by managing and orchestrating replication, failover, and failback of Azure virtual machines with Azure Site Recovery.	Jan 12, 2021	59 min
Enable reliable messaging for Big Data applications using Azure Event Hubs	Learn to use Azure Event Hubs to reliably process high-volume data streams to enable you to code applications to send and receive messages through the hub.	Jan 12, 2021	56 min
React to state changes in your Azure services by using Event Grid	Build a serverless application architecture, automate your operations, and integrate applications by handling Azure events with Event Grid.	Jan 12, 2021	33 min
Expose hybrid services securely with Azure Relay	Securely expose services that run in your on-premises network to clients in the cloud, without having to open a port on your firewall or make intrusive changes to your corporate network infrastructure.	Jan 12, 2021	44 min

Module title	Description	Completed on	Duration
Implement message-based communication workflows with Azure Service Bus	Discover how to write code in .NET applications using Azure Service Bus for communications that can handle high demand, low bandwidth, and hardware failures.	Jan 11, 2021	54 min
Communicate between applications with Azure Queue storage	Find out to use Azure Queue storage to handle high demand and improve resilience in your distributed applications.	Jan 11, 2021	56 min
Route and process data automatically using Logic Apps	Learn how to define a workflow to run your business with Logic apps using built-in triggers, actions, and conditional operators.	Jan 11, 2021	56 min
Protect your on-premises infrastructure from disasters with Azure Site Recovery	Provide disaster recovery for your on-premises infrastructure by managing and orchestrating replication, failover, and failback of VMware virtual machines, Hyper-V virtual machines, and physical servers with Azure Site Recovery.	Jan 9, 2021	33 min
Discuss Azure fundamental concepts	Learn about the different types and categories of cloud computing. Prepare for AZ-900.	Jan 9, 2021	24 min
Optimize your web applications by caching read-only data with Redis	Use Redis caching in Azure to reduce the load on databases. Apply different caching architectures to support larger loads in distributed and high-volume environments.	Jan 9, 2021	55 min
Introduction to open-source database migration on Azure	Introduction to open-source database migration on Azure	Jan 9, 2021	50 min

Module title	Description	Completed on	Duration
Introduction to SQL Server on Linux	In this module, you will learn about running SQL Server 2019 on Linux servers and containers.	Jan 9, 2021	26 min
Design your migration to Azure	Minimize the time and resources required to migrate your on-premises environment to Azure. Assess your current systems with Azure Migrate, and migrate them with Azure Migrate and Azure Database Migration Service.	Jan 9, 2021	44 min
Work with mutable and partial data in Azure Cache for Redis	Learn how to create transactions, manage memory, and use the cache-aside pattern with Azure Cache for Redis	Jan 9, 2021	1 hr 5 min
Introduction to Azure Kubernetes Service	Get acquainted with the Azure Kubernetes open-source container-orchestration system for automating application deployment, scaling, and management.	Jan 9, 2021	25 min
Deploy and run a containerized web app with Azure App Service	Discover how to create a Docker image and store it in the Azure Container Registry, then use Azure App Service to deploy a web application based on the image.	Jan 9, 2021	46 min
Run a background task in an App Service Web App with WebJobs	N/A	Jan 9, 2021	39 min
Build and store container images with Azure Container Registry	Learn how to use Docker to build, store, and manage private container images with the Azure Container Registry.	Jan 9, 2021	49 min

Module title	Description	Completed on	Duration
Build a containerized web application with Docker	Use Docker to build, store, and manage private container images with the Azure Container Registry.	Jan 9, 2021	57 min
Insert and query data in your Azure Cosmos DB database	Discover the Azure Cosmos DB Data Explorer tool that enables you to add or modify data. Create stored procedures in JavaScript.	Jan 8, 2021	58 min
Distribute your data globally with Azure Cosmos DB	Discover the benefits of writing and replicating customized data to regions around the world with Azure Cosmos DB global distribution.	Jan 6, 2021	31 min
Create an Azure Cosmos DB database built to scale	Learn how to create an Azure Cosmos DB account, database, and container built to scale as your application grows.	Jan 6, 2021	35 min
Develop and configure an ASP.NET application that queries an Azure SQL database	Create an Azure SQL database to store data for an application, and create an ASP.NET application to query data from the database.	Jan 6, 2021	50 min
Migrate your relational data stored in SQL Server to Azure SQL Database	Plan and implement the migration of relational data from SQL Server to Azure SQL Database. Select the appropriate migration strategy for your database, and then use Data Migration Assistant to do the assessment and the migration.	Jan 6, 2021	1 hr 24 min
Scale multiple Azure SQL Databases with SQL elastic pools	Learn how to create SQL elastic pools and how to use them to manage performance and cost for a collection of SQL databases.	Jan 6, 2021	39 min

Module title	Description	Completed on	Duration
Provision an Azure SQL database to store application data	Find out what makes Azure SQL Database a good choice for your relational database, how to create the database from the portal and connect with Azure Cloud Shell.	Jan 6, 2021	50 min
Explore Azure database and analytics services	Learn about the database services that are available on Microsoft Azure, such as Azure Cosmos DB, Azure SQL Database, Azure SQL Managed Instance, Azure Database for MySQL, Azure Database for PostgreSQL, as well as big data and analytics. (AZ-900)	Jan 5, 2021	43 min
Monitor, diagnose, and troubleshoot your Azure storage	Monitor, diagnose, and troubleshoot your Azure storage	Jan 5, 2021	41 min
Choose the right disk storage for your virtual machine workload	Azure provides a variety of disk storage options for virtual machine workloads. Identify the features of capabilities of each type to ensure your application performs optimally.	Jan 5, 2021	24 min
Store and share files in your application with Azure Files	N/A	Jan 5, 2021	51 min
Secure your Azure Storage account	Learn how Azure Storage provides multilayered security to protect your data with access keys, secure networks, and Advanced Threat Protection monitoring.	Jan 5, 2021	45 min
Make your application storage highly available with read-access geo-redundant storage	In this module, you learn how to make your application storage highly available by ensuring that you can fail over resources if there's an Azure region failure.	Jan 4, 2021	34 min

Module title	Description	Completed on	Duration
Upload, download, and manage data with Azure Storage Explorer	Azure Storage Explorer allows you to quickly view all the storage services under your account. You can browse through, read, and edit data stored in those services through a user-friendly graphical interface.	Jan 4, 2021	37 min
Improve incident response with alerting on Azure	Respond to incidents and activities in your infrastructure through alerting capabilities in Azure Monitor.	Jan 4, 2021	53 min
Design a holistic monitoring strategy on Azure	Use monitoring services on Azure to bring operational excellence to your applications and infrastructure.	Jan 4, 2021	57 min
Apply and monitor infrastructure standards with Azure Policy	N/A	Jan 3, 2021	46 min
Control and organize Azure resources with Azure Resource Manager	Use Azure Resource Manager to organize resources, enforce standards, and protect critical assets from deletion.	Jan 3, 2021	46 min
Create a long-running serverless workflow with Durable Functions	Learn how to orchestrate a long-running workflow as a set of activities using scalable and cost-effective Durable Functions.	Jan 3, 2021	46 min
Expose multiple Azure Function apps as a consistent API by using Azure API Management	In this module, you will learn how to assemble multiple Azure Functions into a single API using Azure API Management.	Jan 3, 2021	41 min

Module title	Description	Completed on	Duration
Control authentication for your APIs with Azure API Management	Discover how to protect your APIs from unauthorized use with API keys and client certificate authentication.	Jan 3, 2021	55 min
Protect your APIs on Azure API Management	Protect your back-end APIs from information exposure and implement throttling to prevent resource exhaustion with policies in Azure API Management.	Jan 3, 2021	43 min
Improve the performance of an API by adding a caching policy in Azure API Management	Learn how to use Azure API Management to change an API without rewriting code to enable you to apply a caching policy to a GET operation for quicker response.	Jan 3, 2021	47 min
Publish and manage your APIs with Azure API Management	Learn about using an Azure API gateway to share APIs with partners, and how to use subscription keys to control access to your APIs.	Jan 2, 2021	38 min
Run parallel tasks in Azure Batch with the Azure CLI	Find out about the Azure Batch capabilities designed to help you efficiently run large-scale parallel and high-performance computing applications in the cloud.	Jan 2, 2021	45 min
Introduction to high-performance computing (HPC) on Azure	Discover the services available on Azure for your high-performance computing workloads.	Jan 2, 2021	50 min
Choose the best Azure service to automate your business processes	In this module, we'll discuss how to choose the appropriate Azure service to integrate and automate business processes.	Jan 2, 2021	44 min

Module title	Description	Completed on	Duration
Deploy Azure virtual machines from VHD templates	Standardize and automate your virtual machine deployments to minimize manual configuration, variance, and error.	Jan 1, 2021	42 min
Choose a compute provisioning solution for your application	Discover the services and tools available to automate the deployment and configuration of your Azure infrastructure.	Jan 1, 2021	50 min
Explore Azure compute services	Learn about the different services that are available in Azure compute Prepare for AZ-900.	Jan 1, 2021	52 min
Monitor and troubleshoot your end-to-end Azure network infrastructure by using network monitoring tools	Learn how to investigate and diagnose problems in your Azure virtual networks by using Network Watcher and other tools.	Jan 1, 2021	37 min
Centralize your core services by using hub and spoke Azure virtual network architecture	Design a network architecture in Azure that allows for growth and flexibility, secure isolation of critical resources, low administrative overhead, and communication with on-premises network resources.	Jan 1, 2021	36 min
Design a hybrid network architecture on Azure	You have a traditional on-premises infrastructure that you need to connect to resources in Azure. In this module, you learn how to select a connectivity method for your use cases that balances functionality, cost, and security.	Jan 1, 2021	47 min
Design an IP addressing schema for your Azure deployment	In this module, you will learn how to plan and implement an IP addressing scheme for virtual networks and virtual machines in Azure.	Dec 31, 2020	37 min

Module title	Description	Completed on	Duration
Manage and control traffic flow in your Azure deployment with routes	Learn how to control Azure virtual network traffic by implementing custom routes.	Dec 31, 2020	50 min
Load balance your web service traffic with Application Gateway	Improve application resilience by distributing load across multiple servers and use path-based routing to direct web traffic.	Dec 30, 2020	1 hr 32 min
Improve application scalability and resiliency by using Azure Load Balancer	In this module, you will learn how to use Azure Load Balancer to distribute traffic between multiple virtual servers or services.	Dec 30, 2020	47 min
Enhance your service availability and data locality by using Azure Traffic Manager	Discover how Azure Traffic Manager provides DNS load balancing for your application to improve the performance and availability of your application.	Dec 30, 2020	29 min
Distribute your services across Azure virtual networks and integrate them by using virtual network peering	Use virtual network peering to enable communication across virtual networks in a way that's secure and minimally complex.	Dec 30, 2020	42 min
Connect your on-premises network to the Microsoft global network by using ExpressRoute	Connect your on-premises systems and users to Azure and Office 365 by using ExpressRoute for private, dedicated, and guaranteed throughput connectivity.	Dec 29, 2020	40 min
Connect your on-premises network to Azure with VPN Gateway	Learn about the virtual private network (VPN) gateway options in Azure and typical scenarios for using a VPN. Create and test VPNs to securely connect sites to Azure.	Dec 28, 2020	39 min

Module title	Description	Completed on	Duration
Write your first C# code	Get started by writing tiny code examples to learn the basics of the C# syntax!	Nov 18, 2020	17 min
Explore performance-based design	Evaluate possible changes to indexes. Determine the impact of changes to queries and indexes. Explore relevant Dynamic Management Objects.	Sep 30, 2020	50 min
Configure SQL Server resources for optimal performance	Configure SQL Server resources for optimal performance	Sep 29, 2020	35 min
Protect data in-transit and at rest	Protect data in-transit and at rest	Sep 29, 2020	43 min
Deploy MariaDB, MySQL, and PostgreSQL on Azure	Deploy MariaDB, MySQL, and PostgreSQL on Azure	Sep 29, 2020	23 min
Deploy Azure SQL Database	Deploy Azure SQL Database	Sep 28, 2020	48 min
Deploy SQL Server in a virtual machine	Deploy SQL Server in a virtual machine	Sep 28, 2020	1 hr
Analyze your Azure infrastructure by using Azure Monitor logs	Use Azure Monitor logs to extract valuable information about your infrastructure from log data.	Sep 26, 2020	36 min
Protect your virtual machines by using Azure Backup	Use Azure Backup to help protect the data for on-premises servers, virtual machines, virtualized workloads, SQL Server, Azure Files, and more.	Sep 26, 2020	35 min

Module title	Description	Completed on	Duration
Secure and isolate access to Azure resources by using network security groups and service endpoints	Find out how Azure network security groups and service endpoints help you secure your virtual machines and Azure services from unauthorized network access.	Sep 26, 2020	43 min
Host your domain on Azure DNS	Learn how to host your domain on Azure DNS.	Sep 26, 2020	43 min
Run Docker containers with Azure Container Instances	Learn how to run and troubleshoot containerized apps using Docker containers with Azure Container Instances.	Sep 25, 2020	48 min
Build a scalable application with virtual machine scale sets	Enable your application to automatically adjust to changes in load while minimizing costs with virtual machine scale sets.	Sep 25, 2020	57 min
Build Azure Resource Manager templates	N/A	Sep 24, 2020	37 min
Manage access to an Azure subscription by using Azure role-based access control (Azure RBAC)	Learn how to assign management access to a subscription by using Azure role-based access control.	Sep 23, 2020	21 min
Examine service lifecycle in Azure	N/A	Aug 24, 2020	19 min
Explore Azure service level agreements (SLAs)	N/A	Aug 24, 2020	21 min
Review planning and managing Azure costs	N/A	Aug 24, 2020	29 min

Module title	Description	Completed on	Duration
Examine Azure subscriptions	N/A	Aug 24, 2020	14 min
Examine privacy, compliance, and data protection standards	N/A	Aug 21, 2020	24 min
Explore monitoring and reporting	N/A	Aug 21, 2020	18 min
Describe Azure governance methodologies	N/A	Aug 21, 2020	35 min
Explore types of cloud services	N/A	Aug 20, 2020	22 min
Distinguish types of cloud models	N/A	Aug 20, 2020	19 min
Discuss why cloud services	N/A	Aug 20, 2020	36 min
Review security tools and features	N/A	Aug 20, 2020	21 min
Examine core identity services	N/A	Aug 20, 2020	10 min
Secure network connectivity	N/A	Aug 20, 2020	30 min
Differentiate Azure management tools	N/A	Aug 20, 2020	23 min

Module title	Description	Completed on	Duration
Identify Azure solutions	N/A	Aug 20, 2020	33 min
Define core Azure services and products	N/A	Aug 19, 2020	49 min
Discuss core Azure architectural components	N/A	Aug 19, 2020	26 min
Get started with Azure Fundamentals	N/A	Aug 19, 2020	22 min
Create an Azure account	Find out how to start using Azure by creating an account where you'll see services and personal settings for identity, billing, and preferences.	May 21, 2020	39 min
Improve the developer experience of an API with Swagger documentation	Learn how to document an existing API, written in C#/ASP.NET Core, using Swashbuckle, Swagger/OpenAPI, and Swagger UI.	May 14, 2019	33 min
Create a web API with ASP.NET Core controllers	Create a RESTful service with ASP.NET Core controllers that supports create, read, update, delete (CRUD) operations.	Feb 2, 2019	47 min
Chain Azure Functions together using input and output bindings	In this module, we'll learn how to integrate your Azure Function with various data sources by using bindings.	Dec 13, 2018	1 hr 10 min
Execute an Azure Function with triggers	This module demos some of the most common types of triggers for executing Azure Functions and how to configure them to execute your logic.	Dec 10, 2018	1 hr 23 min

Module title	Description	Completed on	Duration
Create serverless logic with Azure Functions	Azure Functions allow you to host business logic that can be executed without managing or provisioning server infrastructure	Dec 10, 2018	36 min
Choose a messaging model in Azure to loosely connect your services	Learn how Azure's storage queues, event hubs, event grid, and service bus can improve your communication between devices.	Nov 5, 2018	45 min
Secure your Azure virtual machine disks	Explore the options for Azure disk encryption to encrypt OS and data disks on existing and new virtual machines.	Oct 29, 2018	1 hr 1 min
Caching and performance in Azure storage disks	Learn about Azure VM disk performance and how to enable caching to help optimize read and write access to storage.	Oct 28, 2018	44 min
Add and size disks in Azure virtual machines	Learn about your virtual machine storage options and how to choose between standard and premium, managed and unmanaged disks for your Azure virtual machine.	Oct 27, 2018	36 min
Manage virtual machines with the Azure CLI	Learn how to use the cross-platform Azure CLI to create, start, stop, and perform other management tasks related to virtual machines in Azure.	Oct 25, 2018	51 min
Design for security in Azure	N/A	Oct 23, 2018	1 hr 2 min
Store application data with Azure Blob storage	Discover how to build an app that stores user files with Azure Blob storage, use Blob storage in a web app, and use the Azure Storage SDK for .NET Core.	Oct 21, 2018	50 min

Module title	Description	Completed on	Duration
Connect an app to Azure Storage	Create a simple application and add configuration, client library references, and C# or JavaScript code to connect it to Azure Storage.	Oct 20, 2018	1 hr 15 min
Create an Azure Storage account	Discover ways to use an Azure Storage account to manage your data for billing, access, and storage location of your blobs, files, queues, and tables.	Oct 20, 2018	30 min
Choose a data storage approach in Azure	Learn how using Azure Storage, Azure SQL Database, and Azure Cosmos DB - or a combination of them - for your business scenario is the best way to get the most performant solution.	Oct 19, 2018	30 min
Predict costs and optimize spending for Azure	N/A	Oct 18, 2018	1 hr 14 min
Automate Azure tasks using scripts with PowerShell	Learn how to install Azure PowerShell on Linux, macOS, or Windows and then connect to Azure and manage your resources.	Oct 16, 2018	1 hr 11 min
Control Azure services with the CLI	Learn the steps to install the Azure CLI locally, create a website, and manage Azure resources using the CLI.	Oct 15, 2018	34 min
Align requirements with cloud types and service models in Azure	Discover Azure's three approaches to deploying cloud resources -- public, private, and hybrid -- and learn the difference each makes in your Azure services.	Oct 13, 2018	35 min
Security, responsibility, and trust in Azure	N/A	Oct 12, 2018	1 hr 16 min

Module title	Description	Completed on	Duration
Core Cloud Services - Azure networking options	N/A	Oct 11, 2018	28 min
Core Cloud Services - Azure data storage options	N/A	Oct 10, 2018	25 min
Core Cloud Services - Azure compute options	N/A	Oct 9, 2018	38 min
Cloud Concepts - Principles of cloud computing	N/A	Oct 8, 2018	1 hr 2 min
Core Cloud Services - Introduction to Azure	N/A	Oct 7, 2018	36 min
Host a web application with Azure App Service	Create a website using C#, Java, Python or Node.js and deploy it through the hosted web app platform in Azure App Service.	Oct 7, 2018	58 min
Prepare your development environment for Azure development	Learn how to choose and install the appropriate IDE for your requirements to help you build, deploy, monitor, and scale cloud-hosted solutions.	Oct 7, 2018	28 min
Build and run a web application with the MEAN stack on an Azure Linux virtual machine	Learn how to decide if the MEAN stack (MongoDB, Express.js, AngularJS, and Node.js) is a good choice for you and set up a MEAN-based web application on a new Azure Linux virtual machine.	Oct 6, 2018	42 min
Create a Windows virtual machine in Azure	Learn to create an Azure virtual machine in minutes that can be used like a local physical desktop or server.	Oct 6, 2018	51 min

Module title	Description	Completed on	Duration
Create a Linux virtual machine in Azure	This module guides you through options for virtual machines in Azure, creating and connecting a Linux virtual machine, and configuring your network settings.	Oct 5, 2018	1 hr 26 min
Introduction to Azure virtual machines	Learn about the decisions you make before creating a virtual machine, the options to create and manage the VM, and the extensions and services you use to manage your VM.	Oct 2, 2018	1 hr 7 min