
Developing for an Azure Cloud Model

Duration: 1 Day Course Code: M-AZ-201T01

Overview:

This course is part of a series of four courses to help you prepare for Microsoft's Azure Developer certification exam AZ-201: Develop Advanced Microsoft Azure Cloud Solutions. These courses are designed for developers who already know how to code in at least one of the Azure-supported languages. The coursework covers how to ensure your solution meets performance expectations in Azure. It covers asynchronous processing, autoscaling, long-running tasks, and distributed transactions. Additionally, you'll learn how to leverage Azure Search for textual content, and how to implement instrumentation and logging in your development solution.

Target Audience:

These courses are for experienced programmers who want to develop and host solutions in Azure. Learners should have some experience with Azure and must be able to program in at least one Azure-supported language. These courses focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

Objectives:

- After completing this course, students will be able to:
 - Discover how to implement large-scale, parallel and high-performance apps by using batches.
 - Learn to implement, and manage, distributed transactions.
 - Configure instrumentation in an app or service by using Application Insights and other tools.
 - Learn to develop for asynchronous processing and how to implement the appropriate asynchronous compute model.
 - Implement autoscaling in your solution and implement code that addresses transient state.
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Content:

Module 1: Develop for asynchronous processing	Implement autoscaling in your solution and implement code that addresses transient state.	After completing this module, students will be able to: Learn to implement, and manage, distributed transactions.
Lessons <ul style="list-style-type: none">■ Implement parallelism multithreading and processing■ Implement Azure Functions and Azure Logic Apps■ Implement interfaces for storage or data access■ Implement appropriate asynchronous computing models■ Implement autoscaling rules and patterns■ Implement code that addresses singleton application instances■ Implement code that addresses a transient state■ Implement large scale parallel and high-performance apps by using batches■ Implement resilient apps by using queues■ Implement code to address application events by using webhooks■ Address continuous processing tasks by using Azure WebJobs■ Identify tools to implement distributed transactions■ Manage the transaction scope■ Manage transactions across multiple databases and servers■ Create an Azure Search index■ Import searchable data■ Query the Azure Search index by using code■ Configure instrumentation in an app or service■ Configure the logging service	Module 3: Develop long-running tasks Lessons <ul style="list-style-type: none">■ Implement parallelism multithreading and processing■ Implement Azure Functions and Azure Logic Apps■ Implement interfaces for storage or data access■ Implement appropriate asynchronous computing models■ Implement autoscaling rules and patterns■ Implement code that addresses singleton application instances■ Implement code that addresses a transient state■ Implement large scale parallel and high-performance apps by using batches■ Implement resilient apps by using queues■ Implement code to address application events by using webhooks■ Address continuous processing tasks by using Azure WebJobs■ Identify tools to implement distributed transactions■ Manage the transaction scope■ Manage transactions across multiple databases and servers■ Create an Azure Search index■ Import searchable data■ Query the Azure Search index by using code■ Configure instrumentation in an app or service■ Configure the logging service	Module 5: Enable the search of textual content Lessons <ul style="list-style-type: none">■ Implement parallelism multithreading and processing■ Implement Azure Functions and Azure Logic Apps■ Implement interfaces for storage or data access■ Implement appropriate asynchronous computing models■ Implement autoscaling rules and patterns■ Implement code that addresses singleton application instances■ Implement code that addresses a transient state■ Implement large scale parallel and high-performance apps by using batches■ Implement resilient apps by using queues■ Implement code to address application events by using webhooks■ Address continuous processing tasks by using Azure WebJobs■ Identify tools to implement distributed transactions■ Manage the transaction scope■ Manage transactions across multiple databases and servers■ Create an Azure Search index■ Import searchable data■ Query the Azure Search index by using code■ Configure instrumentation in an app or service■ Configure the logging service
After completing this module, students will be able to: Learn to develop for asynchronous processing and how to implement the appropriate asynchronous compute model.	After completing this module, students will be able to:	Module 6: Instrument an app or service and implement logging
Module 2: Develop for autoscaling	Discover how to implement large-scale, parallel and high-performance apps by using batches.	
Lessons <ul style="list-style-type: none">■ Implement parallelism multithreading and processing■ Implement Azure Functions and Azure Logic Apps■ Implement interfaces for storage or data access■ Implement appropriate asynchronous computing models■ Implement autoscaling rules and patterns■ Implement code that addresses singleton application instances■ Implement code that addresses a transient	Module 4: Implement distributed transactions Lessons <ul style="list-style-type: none">■ Implement parallelism multithreading and processing■ Implement Azure Functions and Azure Logic Apps■ Implement interfaces for storage or data access■ Implement appropriate asynchronous computing models■ Implement autoscaling rules and patterns■ Implement code that addresses singleton application instances	Lessons <ul style="list-style-type: none">■ Implement parallelism multithreading and processing■ Implement Azure Functions and Azure Logic Apps■ Implement interfaces for storage or data access■ Implement appropriate asynchronous computing models■ Implement autoscaling rules and patterns■ Implement code that addresses singleton application instances

<p>state</p> <ul style="list-style-type: none"> ■ Implement large scale parallel and high-performance apps by using batches ■ Implement resilient apps by using queues ■ Implement code to address application events by using webhooks ■ Address continuous processing tasks by using Azure WebJobs ■ Identify tools to implement distributed transactions ■ Manage the transaction scope ■ Manage transactions across multiple databases and servers ■ Create an Azure Search index ■ Import searchable data ■ Query the Azure Search index by using code ■ Configure instrumentation in an app or service ■ Configure the logging service <p>After completing this module, students will be able to:</p>	<p>computing models</p> <ul style="list-style-type: none"> ■ Implement autoscaling rules and patterns ■ Implement code that addresses singleton application instances ■ Implement code that addresses a transient state ■ Implement large scale parallel and high-performance apps by using batches ■ Implement resilient apps by using queues ■ Implement code to address application events by using webhooks ■ Address continuous processing tasks by using Azure WebJobs ■ Identify tools to implement distributed transactions ■ Manage the transaction scope ■ Manage transactions across multiple databases and servers ■ Create an Azure Search index ■ Import searchable data ■ Query the Azure Search index by using code ■ Configure instrumentation in an app or service ■ Configure the logging service 	<p>■ Implement code that addresses a transient state</p> <ul style="list-style-type: none"> ■ Implement large scale parallel and high-performance apps by using batches ■ Implement resilient apps by using queues ■ Implement code to address application events by using webhooks ■ Address continuous processing tasks by using Azure WebJobs ■ Identify tools to implement distributed transactions ■ Manage the transaction scope ■ Manage transactions across multiple databases and servers ■ Create an Azure Search index ■ Import searchable data ■ Query the Azure Search index by using code ■ Configure instrumentation in an app or service ■ Configure the logging service
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Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

info@globalknowledge.ie

www.globalknowledge.com/en-ie/

Global Knowledge, 3rd Floor Jervis House, Millennium Walkway, Dublin 1