Microsoft Azure Developer - Developing Advanced Solutions (EXAM AZ-201)

Duración: 4 Días **Código del Curso: M-AZ201**

Temario:

This course is designed for developers who already know how to code in at least one of the Azure-supported languages.
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 you 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.How to integrate and manage APIs by using the API Management service, configure a message-based integration architecture, and develop an application message model.How to integrate Azure Cognitive Services, like Computer Vision, QnA Maker, and natural language processing in your solution. You'll also learn how to create and manage bots using the Bot Framework and Azure portal. The course also covers leveraging Azure Time Series Insights, Stream Analytics and the IoT Hub for your IoT solution.

Dirigido a:

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 course focus on C#, Node.js, Azure CLI, Azure PowerShell, and JavaScript.

Objetivos:

- 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.
- 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.
- Manage APIs by using API Management (APIM)
- Create an APIM instance, configure authentication for APIs, create an API gateway, and define policies for APIs
- Configure a message-based integration architecture by using the services included in Azure.
- Configure an app or service to send email
- Develop an application message model including message schema and message exchange.
- Create an event model, topics, and subscriptions
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device.

Contenido:

AZ-201T01: Develop for an Azure Cloud Model

Module 1: Develop for asynchronous processing

Lessons

- 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 aplication 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
- Create and configure an evnt hub
- Create and configure a service bus
- Configure an app or service with Microsoft Graph
- Create an event model
- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview

Module 5: Enable the search of textual content

Lessons

- 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 aplication 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
- Create and configure an evnt hub
- Create and configure a service bus
- Configure an app or service with Microsoft Graph
- Create an event model
- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK

After completing this course, students will be able to:

- Manage APIs by using API Management (APIM)
- Create an APIM instance, configure authentication for APIs, create an API gateway, and define policies for APIs
- Configure a message-based integration architecture by using the services included in Azure.
- Configure an app or service to send email
- Create an event model, topics, and subscriptions
- Develop an application message model including message schema and message exchange.

AZ-201T03 : Develop Azure Cognitive Services, Bot, and IOT Solutions

Module 1: Develop Azure Cognitive Services solutions

Lessons

- 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 aplication 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs

- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

- 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.
- Discover how to implement large-scale, parallel and high-performance apps by using batches.
- Learn to implement, and manage, distributed transactions.
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device
- Register your device with the IoT Hub Device Provisioning Service

Module 2: Develop for autoscaling

Lessons

- 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 aplication 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
- Create and configure an evnt hub
- Create and configure a service bus
- Configure an app or service with Microsoft Graph
- Create an event model
- Create topics and subscriptions
- Cognitive Services overview

for .NET

- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

Module 6: Instrument an app or service and implement logging

Lessons

- 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 aplication 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
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- Analyze recommendations in Security Center
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- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
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- Configure an app or service with Microsoft Graph
- Create an event model
- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

- 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.
- Discover how to implement large-scale, parallel and high-performance apps by using batches.
- Learn to implement, and manage, distributed transactions.
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- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device
- Register your device with the IoT Hub Device Provisioning Service

Module 2: Create and intergrate bots

Lessons

- Implement parallelism multithreading and

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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
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- Configure the Azure Relay service
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- Create an event model
- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

- 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.
- Discover how to implement large-scale, parallel and high-performance apps by using batches.
- Learn to implement, and manage, distributed transactions.
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create and register simple bot using the Bot Framework, and manage a bot using the
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

AZ-201T02: Implement Azure Development Integration Solutions

Module 1: Manage APIs by using API Management

Lessons

- 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 aplication 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
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- Create and configure a service bus
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- Create an event model
- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device
- Register your device with the IoT Hub Device Provisioning Service

Module 3: Develop long-running tasks

Lessons

- 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 aplication 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
- Define policies for APIs
- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
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- Create and configure a service bus
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- Create an event model
- Create topics and subscriptions
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- Develop solutions using Computer Vision
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- Develop solutions using Custom Speech Service
- Configure an event publish and subscribe model
- Configure the Azure Relay service
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- Create and configure a service bus
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- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this course, students will be able to:

- Manage APIs by using API Management (APIM)
- Create an APIM instance, configure authentication for APIs, create an API gateway, and define policies for APIs
- Configure a message-based integration architecture by using the services included in Azure.
- Configure an app or service to send email
- Create an event model, topics, and subscriptions
- Develop an application message model including message schema and message exchange.

Module 2: Configure a message-based integration architecture

Lessons

- 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
- 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.
- Discover how to implement large-scale, parallel and high-performance apps by using batches.
- Learn to implement, and manage, distributed transactions.
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device
- Register your device with the IoT Hub Device Provisioning Service

Module 3: Create and implement IoT solutions

Lessons

- 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 aplication 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

- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

- 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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- Learn to implement, and manage, distributed transactions.
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
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- Leverage Bing Search in your application.
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- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device
- Register your device with the IoT Hub Device Provisioning Service

Module 4: Implement distributed transactions

Lessons

- 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
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- Implement code to address aplication events by using webhooks
- Address continuous processing tasks by high-performance apps by using batches
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- 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
- Analyze recommendations in Security Center
- Create an API Management instance
- Configure authentication for APIs
- Create an API gateway
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- Configure an app or service to send emails
- Configure an event publish and subscribe model
- Configure the Azure Relay service
- Create and configure a notification hub
- Create and configure an evnt hub
- Create and configure a service bus
- Configure an app or service with Microsoft Graph
- Create an event model
- Create topics and subscriptions
- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this course, students will be able to:

- Manage APIs by using API Management (APIM)
- Create an APIM instance, configure authentication for APIs, create an API gateway, and define policies for APIs
- Configure a message-based integration architecture by using the services included in Azure.
- Configure an app or service to send email
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- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

- 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.
- Discover how to implement large-scale, parallel and high-performance apps by using batches.
- Learn to implement, and manage, distributed transactions.
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
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- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
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- Managing a bot using the Azure Portal
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- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

After completing this module, students will be able to:

- 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.
- Discover how to implement large-scale, parallel and high-performance apps by using batches.
- Learn to implement, and manage, distributed transactions.
- Learn to develop solutions using Computer Vision.
- Use speech services and natural language processing in your app.
- Create and manage dictionaries for FAQ generation by using QnA maker.
- Leverage Bing Search in your application.
- Create an event model, topics, and subscriptions
- Develop an application message model including message schema and message exchange.

Module 3: Develop an application message model

Lessons

- 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
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- Cognitive Services overview
- Develop solutions using Computer Vision
- Develop solutins using Bing Web Search
- Develop solutions using Custom Speech

- Create and register simple bot using the Bot Framework, and manage a bot using the Azure Portal.
- Configure Azure Time Series Insights for your IoT solution.
- Configure the Stream Analytics Service for inputs and outputs for your IoT device
- Register your device with the IoT Hub Device Provisioning Service

Service
- Develop solutions using QnA Maker
- Azure Bot Service overview
- Create a bot using the Bot Builder SDK for .NET
- Using Language Understanding in your bot
- Register a bot with Bot Service
- Managing a bot using the Azure Portal
- Working with the Azure IoT Hub
- Working with Azure Time Series Insights
- Working with Azure Stream Analytics

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

info.cursos@globalknowledge.es

www.globalknowledge.com/es-es/

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