凱風電腦有限公司 |Gallant Computer Company Ltd.
Hotline: 2833 3816
Fax: 2851 6452
Email: info@gallantcomputer.com
Website: www.gallantcomputer.com

AZ-203T06-A: Connect to and consume Azure and third-party services

OBJECTIVE

This course is all about communication between apps and services. Students will learn how to create and manage their own APIs by using API Management, and how to use the different event- and message-based services in Azure within their development solutions. Throughout the course students learn how to create and integrate these resources by using the Azure Portal, Azure CLI, REST, and application code.

COURSE TOPICS

Module 1: Develop an App Service Logic App

Logic Apps helps you build solutions that integrate apps, data, systems, and services across enterprises or organizations by automating tasks and business processes as workflows. This module covers what they are and how to create them.

Lessons

- Azure Logic Apps overview
- Create Logic Apps by using Visual Studio
- Create custom connectors for Logic Apps
- Create custom templates for Logic Apps

After completing this module, students will be able to:

- Understand how to create and manage Azure Logic Apps

Module 2: Integrate Azure Search within solutions

Azure Search is a search-as-a-service cloud solution that gives developers APIs and tools for adding a rich search experience over private, heterogenous content in web, mobile, and enterprise applications. In this module students will learn how to integrate Azure Search in to their solutions.

Lessons

- Create and query an Azure Search Index
- Full text search in Azure Search

After completing this module, students will be able to:

- Provision the service, create an index, load data, and execute searches

Module 3: API Management

API Management (APIM) helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

Lessons

- Introduction to the API Management service
- Securing your APIs
- Defining API policies

After completing this module, students will be able to:

- Provision the APIM service using the Azure Portal, secure APIs with subscriptions and client certificates, and use API policies to modify the behavior of an API

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Module 4: Develop event-based solutions

This module covers developing event-based solutions in Azure by integrating Azure Event Grid, Event Hubs, and Notification Hubs in your applications.

Lessons

- Implement solutions that use Azure Event Grid
- Implement solutions that use Azure Event Hubs
- Implement solutions that use Azure Notification Hubs

After completing this module, students will:

- Know how the services work and how to integrate them in to their solutions

Module 5: Develop message-based solutions

Microsoft Azure Service Bus is a fully managed enterprise integration message broker. Service Bus is most commonly used to decouple applications and services from each other, and is a reliable and secure platform for asynchronous data and state transfer. Azure Queue storage is a service for storing large numbers of messages that can be accessed from anywhere in the world via authenticated calls using HTTP or HTTPS.

Lessons

- Implement solutions that use Azure Service Bus
- Implement solutions that use Azure Queue Storage queues

After completing this module, students will:

- Understand how to leverage Azure message-based services in their solutions

PREREQUISITES

- Students should have 1-2 years experience as a developer. This course assumes students know how to code and have a fundamental knowledge of Azure.
- It is recommended that students have some experience with PowerShell or Azure CLI, working in the Azure portal, and with at least one Azure-supported programming language. Most of the examples in this course are presented in C# .NET.

TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

COURSE DURATION

Bundle Course in 3 days

Time: 9:00am to 6:00pm

Lunch Time: 1:00pm to 2:00pm

CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course.