DEV205x: Architecting Microsoft Azure Solutions

Course Prerequisites

To help ensure that your learning experience is good, please note that this course is not for beginners or those new to Microsoft Azure. You must have prior experience using Microsoft Azure. This course will not cover implementation level topics, but rather higher level design & architecture concepts. If you are new to Microsoft Azure, it is highly recommended that you learn some Azure implementation tasks first.

Students considering taking this course are expected to be able to define and implement the appropriate infrastructure and platform solutions to meet the required functional, operational, and deployment requirements through the solution lifecycle. Including:

- Create and manage infrastructure components in Azure
- Implement Web apps
- Describe common practices for building resilient and scalable applications
- Implement Storage & Data Services
- Implement and manage cloud and mobile services
- Implement CDNs and Media Services
- Create an Azure Storage Queue instance
- Implement Azure Active Directory and use it to implement security in an application
- Automate and integrate Azure resources using PowerShell

Course Outline

Week 1

00 | Module 0: Start Here
01 | Module 1: Design Principles for cloud Infrastructure and Development
02 | Module 2: Designing App Services Web Apps

Week 2

03 | Designing Application Storage & Data Access
04 | Securing Resources

Week 3

05 | Design Microsoft Azure Infrastructure and Networking
06 | Designing an Advanced Application

Expected Effort

Each week, you should expect to spend three to four (3-4) hours on the course per week, including:

- Viewing the lecture videos and demonstrations.

- Further reading.

- Try, review and discuss the case studies.

- Completing module assessments (see below).

Coursework and Grading

This course includes coursework, some of which is graded. There are case studies throughout the course. These are real-world, hands-on design exercises provided for you to practice what you have learned and give you an opportunity to complete a real design. Case studies are ungraded. There are graded assessments for each modules, in which you must answer all questions. Additionally, at the end of the course you must complete a final exam.

The module assessments account for 60% of the total grading for the course, and the final exam accounts for the remaining 40%. You must achieve an overall score of 50% or more to pass this course.

In the module assessments, you have two attempts at each question. In the final exam, you are restricted to one attempt per question.

Discussion

We encourage all students to submit questions, observations, and comments in the **Discussion** section. If you have any issues while working on the course, check here first – your fellow students may have already found a resolution!

Please remember that the discussion forum is open to all students and staff, and while we love to see passionate engagement, abusive or inflammatory behavior will not be tolerated.

Due to the volume of students attending this course, it will not be possible for the course staff to answer every question individually. You should still post questions however, because in many cases, your fellow students may be able to help.