

Module Eight

Learning Objective

By the end of this module, you will meet this learning objective:

- ☑ Explain how operating systems and serverless environments may be applied in future applications

Module Overview

This course has shown you there is more to application development and running applications than the code you write. We started back in Module One with the idea that applications do not exist in a vacuum, that they need to live and run somewhere. For many years, this “somewhere” was provided by an operating system running on hardware in the server room. Today there are more options available with cloud platform providers, and even now the leading technology is being pushed further.

Serverless computing has the power and potential to turn traditional application development upside down. Step back for a moment and consider what an application that you build really is. There are two parts to it – the business logic that is needed to solve the problem and...everything else. There is overhead spent in coding import statements, creating and using data structures, crafting output, and making API calls to another service. An aspect of the “everything else”, the overhead, is done in support of working with and on the operating system or platform. Now, imagine for a minute that you could take your business logic and put just that fragment into a cloud provider

environment and have it run there. No need to worry about the data structures and underlying memory management involved or trying to gauge the growth of storage requirements as volume and traffic increase. This is what the promise of serverless computing offers - the servers are, of course, still underneath, but you no longer worry about that. Instead, you focus on the business logic to solve the business requirements.

Module at a Glance

This is the recommended plan for completing the reading assignments and activities within the module. Additional information can be found in the module Resources section and on the module table of contents page.

- 1** Review the Module Eight resources.
- 2** Post your initial response to this week's discussion.
- 3** Complete the Module Eight journal by adding an artifact to your GitHub portfolio.
- 4** Respond to your peers' posts in this week's discussion.