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Week 8 Announcement

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Hello Students:

<u>**This is, in fact, the last week!**</u> Cloud-based approaches are a rapidly growing alternative to traditional hardware and operating system approaches. You should also consider the disruptive force of cloud-based approaches on established IT processes for deployment, management, and support of on-premise solutions used for many years. Computing, memory, and storage in the cloud can be pay-as-you-go with the ability to scale up or down (Elastic Infrastructure) leveraging Docker Containers (Immutable Infrastructure) and Kubernetes Orchestrators, for example. These "virtualized" services of traditional IT physical assets can be provisioned in seconds and minutes, which can threaten traditional IT organizations.

In one of the companies that I worked for, I led a team whose responsibility was to provision servers in an automated fashion leveraging Infrastructure-as-Code (IaC) and then deploy those servers in on-premise data centers as well as in the cloud (AWS & MS Azure). One of the very interesting learning experiences for all of us was how cloud providers devise their business strategy. We were trying to provision a Windows Server 2016 machine in AWS cloud environment but we could not find a Windows Server 2016 Enterprise Edition

OS in the AWS Marketplace. The only option available was the Data Center Edition which was lot more expensive. On the other hand, Windows Server 2016 Enterprise Edition was readily available for deployment in MS Azure since both of them (OS and Azure) belonged to the same company, Microsoft.

Discussion

As part of this module, you will participate in a discussion on Cloud Operating Platforms. For this, I would like to encourage you to think beyond the obvious points such as the secondary impact to traditional roles of a systems administrator or network engineer.

Cloud concepts and details may be new to you but these are early steps in your journey and you will have many opportunities to put into practice what you have learned in this course.

You will be focusing on synthesizing the concepts of client-server patterns, REST, and JSON. I would like to remind you that while all this new information may seem foreign now, with practice it will become second nature because you will likely be working on applications such as this in the future.

In the traditional approach, focus is on all the non-developer work to purchase, configure, and deploy platforms and to commit, compile, package, and deploy applications. With serverless platforms, the focus shifts to the business logic needed to provide value to the company while letting the cloud provider handle the infrastructure and provisioning of resources.

As part of this module, there are several reading assignments to explore several resources, which will help you learn how operating systems and serverless environments may be applied in future applications.

At the end of this module is a journal that asks you to reflect on your completion of a software design document for a client. As announced in Week 7 announcement, once again **here is my GitHub username: suhash7196.** I hope you have already added this username as a collaborator in Github.

As always, please feel free to reach out (s.sarkar1@snhu.edu) if you have any questions. I am always here to help as much as I can.

Thanks,

Suhash