

Cuarto ejercicio

Enunciado

No responda en este cuestionario ni en la hoja de identificación, responda en las hojas en blanco que se le han entregado

Azure App Service features

(From <https://azure.service.com>)

Azure App Service is one of the key services in Azure that you can use to host your applications. Each of these services has unique capabilities, but they all share some common features:

Scaling

Azure App Service runs on App Service plans, which are abstractions from virtual machines (VMs). One or more VMs run your Azure App Service, but since Azure takes care of them, it's not necessary for you to know which ones. You can, however, scale the resources that run your Azure App Service.

You can either choose a higher pricing tier (ranging from free to premium) or increase the number of application instances that are running. It's even possible to have Azure App Service that automatically scale the number of instances for you, based on a schedule or metrics like CPU, memory, or HTTP queue length.

Deployment slots

After deploying a new version of your application to a deployment slot, you can test whether it works as expected and then move it into your production slot.

You can even use Azure's Testing in Production feature to route a percentage of traffic from your production app to a deployment slot. For example, if you derive 10 percent of your users to the new version of your app in the deployment slot, you can see whether the new features are functioning as expected or not.

When you're satisfied with how the new version of your app is performing in the deployment slot, you can carry out a "swap" which exchanges the app in the deployment slot with that in your production slot. You can also swap from a development slot to a test slot, and then to the production slot. Before doing this, the swap operation verifies that the new version of your website is warmed up and ready to go. When this has been confirmed, the swap operation switches the slots, and your users now see the new version of the app—with no downtime. You can also swap back and revert the deployment of the new version.

Continuous Deployment

To publish your application to App Service, you can use services such as Jenkins, Octopus Deploy, and more. You also can use the Continuous Deployment (CD) feature from Azure DevOps in App Service. This makes it possible for you to create a build-test-release pipeline right in App Service.

The process does the following:

1. Retrieves the latest source code from the repository that you indicate.
2. Builds the code according to a template that you pick (ASP.NET, Node.js, and so on).
3. Deploys the app in a staging environment and load-tests it
4. Deploys the app to production after approval (you can indicate whether you want to use a deployment slot).