**Create a web app with continuous deployment from GitHub**

* Article
* 08/29/2020
* 2 minutes to read
  + [](https://github.com/cephalin)
  + [](https://github.com/mikefrobbins)
  + [](https://github.com/DCtheGeek)
  + [](https://github.com/PRMerger15)

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**In this article**

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3. [Script explanation](https://docs.microsoft.com/en-us/azure/app-service/scripts/powershell-continuous-deployment-github?toc=/powershell/module/toc.json#script-explanation)
4. [Next steps](https://docs.microsoft.com/en-us/azure/app-service/scripts/powershell-continuous-deployment-github?toc=/powershell/module/toc.json#next-steps)

This sample script creates a web app in App Service with its related resources, and then sets up [continuous deployment](https://docs.microsoft.com/en-us/azure/app-service/deploy-continuous-deployment) from a GitHub repository. For GitHub deployment without continuous deployment, see [Create a web app and deploy code from GitHub](https://docs.microsoft.com/en-us/azure/app-service/scripts/powershell-deploy-github).

If needed, install the Azure PowerShell using the instruction found in the [Azure PowerShell guide](https://docs.microsoft.com/en-us/powershell/azure/), and then run Connect-AzAccount to create a connection with Azure. Also, ensure that:

* The application code is in a public or private GitHub repository that you own. To get automatic builds, structure your repository according to the [Prepare your repository](https://docs.microsoft.com/en-us/azure/app-service/deploy-continuous-deployment#prepare-your-repository) table.
* You have [created a personal access token in your GitHub account](https://help.github.com/en/articles/creating-a-personal-access-token-for-the-command-line).

**Sample script**

**Note**

This article uses the Azure Az PowerShell module, which is the recommended PowerShell module for interacting with Azure. To get started with the Az PowerShell module, see [**Install Azure PowerShell**](https://docs.microsoft.com/en-us/powershell/azure/install-az-ps). To learn how to migrate to the Az PowerShell module, see [**Migrate Azure PowerShell from AzureRM to Az**](https://docs.microsoft.com/en-us/powershell/azure/migrate-from-azurerm-to-az).

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Try It

$gitrepo="<replace-with-URL-of-your-own-GitHub-repo>"

$gittoken="<replace-with-a-GitHub-access-token>"

$webappname="mywebapp$(Get-Random)"

$location="West Europe"

# Create a resource group.

New-AzResourceGroup -Name myResourceGroup -Location $location

# Create an App Service plan in Free tier.

New-AzAppServicePlan -Name $webappname -Location $location `

-ResourceGroupName myResourceGroup -Tier Free

# Create a web app.

New-AzWebApp -Name $webappname -Location $location -AppServicePlan $webappname `

-ResourceGroupName myResourceGroup

# SET GitHub

$PropertiesObject = @{

token = $gittoken;

}

Set-AzResource -PropertyObject $PropertiesObject `

-ResourceId /providers/Microsoft.Web/sourcecontrols/GitHub -ApiVersion 2015-08-01 -Force

# Configure GitHub deployment from your GitHub repo and deploy once.

$PropertiesObject = @{

repoUrl = "$gitrepo";

branch = "master";

}

Set-AzResource -PropertyObject $PropertiesObject -ResourceGroupName myResourceGroup `

-ResourceType Microsoft.Web/sites/sourcecontrols -ResourceName $webappname/web `

-ApiVersion 2015-08-01 -Force

**Clean up deployment**

After the script sample has been run, the following command can be used to remove the resource group, web app, and all related resources.

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Remove-AzResourceGroup -Name myResourceGroup -Force

**Script explanation**

This script uses the following commands. Each command in the table links to command specific documentation.

| **SCRIPT EXPLANATION** | |
| --- | --- |
| **Command** | **Notes** |
| [New-AzResourceGroup](https://docs.microsoft.com/en-us/powershell/module/az.resources/new-azresourcegroup) | Creates a resource group in which all resources are stored. |
| [New-AzAppServicePlan](https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azappserviceplan) | Creates an App Service plan. |
| [New-AzWebApp](https://docs.microsoft.com/en-us/powershell/module/az.websites/new-azwebapp) | Creates a web app. |
| [Set-AzResource](https://docs.microsoft.com/en-us/powershell/module/az.resources/set-azresource) | Modifies a resource in a resource group. |