

# Step By Step: Create automation scripts to create Azure resources

This step by step guide describes the steps for automatically creating a web app (with a service plan) and a database (with SQL server). This and assigning these resources to a resource group will be done by using the Azure CLI 2.0. If you want to use PowerShell, you'll need to convert all the steps to their PowerShell equivalent.

## Reading parameters

1. Open your favourite script editor and create new script. Save it as `CreateAzureResources.cmd`
2. Add the following line to save the first script argument in a variable called `Environment_name`

```
bash set Environment_name=%1
```

## Creating a web application

1. Add the following lines to create a new app service plan and a new web application  
  

```
``` bash call az appservice plan create -g "RG-Playground-Teamname" -n "AppServicePlan-TeamName-
%Environment_name%" --sku F1 REM create appservice plan

REM create azurewebapp call az webapp create -g "RG-Playground-Teamname" -p "AppServicePlan-
TeamName-%Environmentname%" -n "WebApp-TeamName-%Environmentname%" ```
```

## Creating a SQL server

1. Add the following lines to create a new SQL server and a database  
  

```
``` bash REM create SQL server call az sql server create --admin-password
"vhniNTbo3$9hJvr{xw{rTotqmsFT7" --admin-user "GDBCAdmin" --location "West Europe" --name
"sqlserver-teamname-%Environmentname%" --resource-group "RG-Playground-Teamname"

REM set firewall rule to allow azure resources access the database az sql server firewall-rule create --name
"azureservices" --start-ip-address 0.0.0.0 --end-ip-address 0.0.0.0 --server "sqlserver-teamname-
%Environment_name%" --resource-group "RG-Playground-Teamname"

REM create SQL database call az sql db create --name "db-teamname-%Environmentname%" --resource-
group "RG-Playground-Teamname" --server "sqlserver-teamname-%Environmentname%" ```
```

**Note:** The location of your SQL Server depends on where you created it earlier. Change the location in this script block if needed. The server name naming rules are: Servername can only be made up of lowercase letters 'a'-'z', the numbers 0-9 and the hyphen. The hyphen may not lead or trail in the name.

## Running the script

1. Switch back to your Azure Command Prompt. If you accidentally closed it, re-open it and login by running `az login`
2. Navigate to the directory where you saved your script by typing `cd <path where you saved your script>`
3. Run `CreateAzureResources.cmd dev`
4. Check the Azure Portal to see that your resource group has been created and the correct security group was assigned.

## Finished script

1. The finished script can be downloaded here: [CreateAzureResources.zip](#)