

# Exercise - Create a website hosted in Azure

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 [coursera.org/learn/microsoft-azure-cloud-services/supplement/T08IR/exercise-create-a-website-hosted-in-azure](https://coursera.org/learn/microsoft-azure-cloud-services/supplement/T08IR/exercise-create-a-website-hosted-in-azure)

As a developer for Tailwind Traders, you likely have expertise creating applications. As you migrate to Azure, many of the steps that you'll follow to set up a website in the cloud will parallel the steps that you followed when you created websites in your company's datacenter. For example, you need to choose where you'll create your website, and then allocate the necessary resources. In Azure, the physical hardware is managed for you, so your tasks are to choose where your website will be located and which resources to provide.

In this exercise, you'll create an Azure App Service instance to host a WordPress website.

## Activate a sandbox to complete this exercise

This exercise requires you to use a sandbox on Microsoft Learn to complete. A **sandbox** gives you access to Azure resources. Your Azure subscription will not be charged. The sandbox may only be used to complete training on Microsoft Learn. Use for any other reason is prohibited, and may result in permanent loss of access to the sandbox. [Sign in to activate sandbox](#)

## Azure terminology and concepts

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Before you get started, let's review and discuss some basic terms and concepts that you'll need to know when you create your website.

### What is App Service?

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App Service is an HTTP-based service that enables you to build and host many types of web-based solutions without managing infrastructure. For example, you can host web apps, mobile back ends, and RESTful APIs in several supported programming languages. Applications developed in .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python can run in and scale with ease on both Windows- and Linux-based environments.

For this exercise, we want to create a website in less than the time it takes to eat lunch. So, we're not going to write any code. Instead, you'll deploy a predefined application from Azure Marketplace.

### What is Azure Marketplace?

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Azure Marketplace is an online store that hosts applications that are certified and optimized to run in Azure. Many types of applications are available, ranging from AI and machine learning to web applications. As you'll see in a couple of minutes, deployments

from the store are done via the Azure portal by using a wizard-style user interface. This user interface makes evaluating different solutions easy.

We're going to use one of the WordPress application options from Azure Marketplace for our website.

## Create resources in Azure

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Typically, the first thing we'd do is to create a *resource group* to hold all the things that we need to create. The resource group allows us to administer all the services, disks, network interfaces, and other elements that potentially make up our solution as a unit. We can use the Azure portal to create and manage our solution's resource groups. Keep in mind that you can also manage resources via a command line by using the Azure CLI. The Azure CLI is a useful option if you need to automate the process in the future.

In the free Azure sandbox environment, you'll use the pre-created resource group **[sandbox resource group name]**, and you don't need to do this step.

## Choose a location

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The free sandbox allows you to create resources in a subset of the Azure global regions. Select a region from this list when you create resources:

- westus2
- southeastasia
- japaneast
- brazilsouth
- australiasoutheast
- centralindia
- southcentralus
- centralus
- eastus
- westeurope

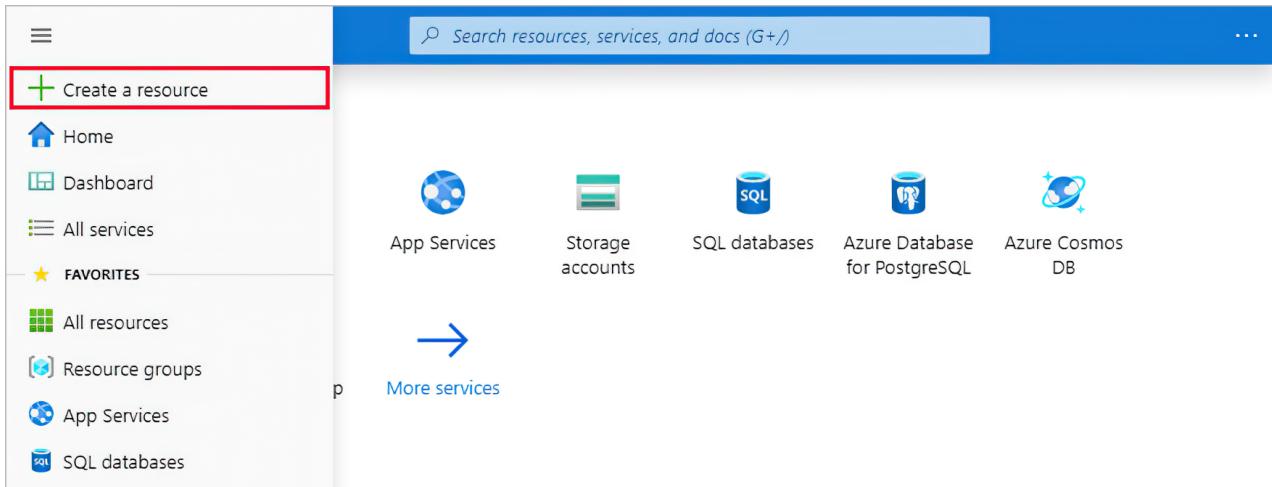
## Create a WordPress website

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1. If you haven't done so already, verify that you've activated the sandbox. Activating the sandbox allocates the subscription and resource group you'll use in this exercise. This step is required for any Microsoft Learn exercises that use a sandbox.

2. Sign in to the [Azure portal](#) by using the same account you used to activate the sandbox.

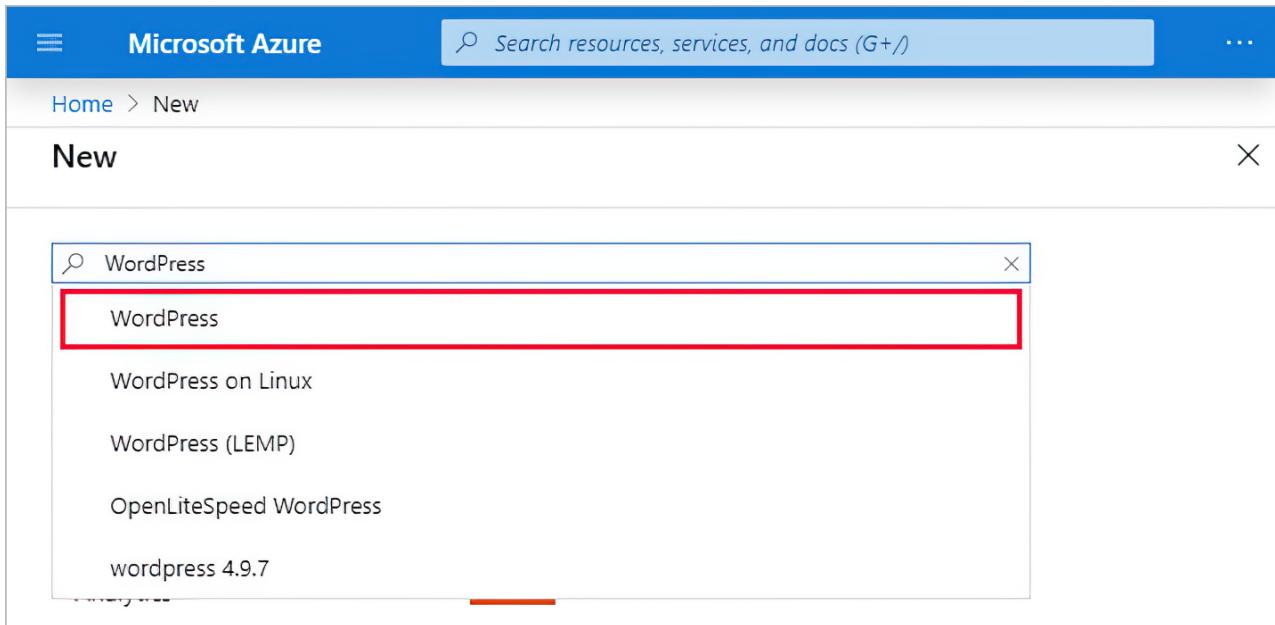
3. On the top of the Azure portal left pane, select **Create a resource**.



This option takes you to **Azure Marketplace**.

A screenshot of the Microsoft Azure Marketplace. At the top, there is a search bar labeled "Search the Marketplace". Below the search bar, there are two tabs: "Azure Marketplace" and "Popular". Under the "Popular" tab, there are five service cards: 1. Windows Server 2016 Datacenter with a "Quickstart tutorial" link. 2. Ubuntu Server 18.04 LTS with a "Learn more" link. 3. Web App with a "Quickstart tutorial" link. 4. SQL Database. 5. A card for "Get started" which includes "Recently created", "AI + Machine Learning", "Analytics", "Blockchain", "Compute", and "Containers".

4. Azure Marketplace has many services, solutions, and resources available for you to use. We know that we want to install WordPress, so we can do a quick search for it. In the **Search the Marketplace** box with the listed application options, enter **WordPress**. Select the default **WordPress** option from the list of options available.



5. In the pane that appears, you'll typically find more information about the item you're about to install, such as the publisher, a brief description of the resource, and links to more information. Make sure to review this information. Select **Create** to begin the process to create a WordPress app.

The screenshot shows the Microsoft Azure 'WordPress' page. At the top, there's a navigation bar with 'Home > New > WordPress'. Below it, the word 'WordPress' is displayed in large letters, with a smaller 'WordPress' link underneath. To the left is the classic WordPress 'W' logo. A blue 'Create' button is prominently featured. Above the 'Create' button is a 'Save for later' button with a heart icon. A descriptive paragraph below the logo reads: 'WordPress started in 2003 with a single bit of code to enhance the typography of everyday writing and with fewer users than you can count on your fingers and toes. Since then it has grown to be the largest self-hosted blogging tool in the world, used on hundreds of thousands of sites and seen by tens of millions of people every day.' At the bottom of the page, there's a section titled 'Useful Links' with links to 'WordPress' and 'Learn More'. A small screenshot of a browser window showing a 'WordPress Site' is also included at the bottom.

6. Several options to configure your deployment appear. Enter the following information:

Property	Value
App name	Choose a unique value for the app name. It will form part of a fully qualified domain name (FQDN).
Subscription	Make sure <b>Concierge Subscription</b> is selected.
Resource Group	Select the <b>Use existing</b> option, and then select the <b>[sandbox resource group name]</b> resource group from the dropdown.
Database Provider	From the dropdown, select <b>MySQL in App</b> .
App Service plan/Location	You'll change the App Service plan in the next step.
Application Insights	Leave at the default configuration.

Your configuration should look like this example:

[Home](#) > [New](#) > [WordPress](#) >

## WordPress

[Create](#)

App name \*

Subscription \*

 Concierge Subscription

Resource Group \*

 learn-bbd8ccf6-6d79-4db9-9e4a-c93a10bc7af2[Create new](#)

Database Provider \* ⓘ

 MySQL In App

\*App Service plan/Location

[ServicePlan45394e13-b1ef\(Central US\)](#)[Application Insights](#)

MySQL In App runs a local MySQL instance with your app and shares resources from the

[Create](#)[Automation options](#)

7. Now let's configure the App Service plan to use a specific pricing tier. The App Service plan specifies the compute resources and location for the web app. Select **App Service plan/Location**.

[Home](#) > [New](#) > [WordPress](#) >

## WordPress

[Create](#)

App name \*

Subscription \*

 Concierge Subscription

Resource Group \*

 learn-bbd8ccf6-6d79-4db9-9e4a-c93a10bc7af2[Create new](#)

Database Provider \* ⓘ

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MySQL In App runs a local MySQL instance with your app and shares resources from the

[Create](#)[Automation options](#)

8. In the **App Service plan** pane, select **Create new**.

**App Service plan**

Select a plan for the web app

An App Service plan is the container for your app. The App Service plan settings will determine the location, features, cost and compute resources associated with your app.

**Create new**

**ServicePlan7d1dddc-ba5e(S1) (New)**  
Central US      New Plan

9. In the **New App Service plan** pane, enter a name for the new service plan.
10. For **Location**, select **Central US** to make sure we choose a region that allows the service plan you'll choose. Normally, you'll select the region that's closest to your customers while offering the services you need.
11. Select **Pricing tier** to see the performance and feature options of the various types of service plans.

# New App Service Plan



Create a plan for the web app

\* App Service plan

wordpress-service-plan

\* Location

Central US

\* Pricing tier

S1 Standard

12. The **Spec Picker** allows us to select a new pricing tier for our application. This screen opens to the **Production** tab, with the S1 pricing tier selected. We'll select a new pricing tier from the **Dev / Test** tab for our website.

Select the **Dev / Test** tab, then select the **F1** pricing tier, and then select **Apply**.

The Spec Picker dialog box displays three recommended pricing tiers:

- F1** Shared infrastructure, 1 GB memory, 60 minutes/day compute, Free.
- D1** Shared infrastructure, 1 GB memory, 240 minutes/day compute, 9.49 USD/Month (Estimated).
- B1** 100 total ACU, 1.75 GB memory, A-Series compute equivalent, 54.75 USD/Month (Estimated).

A red box highlights the F1 tier. Below the tiers is a link to "See additional options".

**Included hardware**

Every instance of your App Service plan will include the following hardware configuration:

- Azure Compute Units (ACU)**: Dedicated compute resources used to run applications deployed in the App Service Plan. [Learn more](#)
- Memory**: Memory available to run applications deployed and running in the App Service plan.
- Storage**: 1 GB disk storage shared by all apps deployed in the App Service plan.

**Apply**

13. Back on the **New App Service plan** pane, select **OK** to create the new plan, and close the pane.

14. Finally, select the **Create** button to start the deployment of your new site.

## Verify your website is running

The deployment of the new website can take a few minutes to complete. You're welcome to explore the portal further on your own.

We can track the progress of the deployment at any time.

1. Select the Notifications bell icon at the top of the portal. If your browser window width is smaller, it might be shown when you select the ellipsis (...) icon in the upper-right corner.

The Microsoft Azure dashboard is shown. At the top, there's a search bar and a 'Cloud Shell' button. Below the search bar, there's a section for 'Azure services' with icons for creating a resource, Virtual machines, App Services, Storage accounts, and SQL databases. Further down are icons for Azure Cosmos DB, Kubernetes services, Function App, and a 'More services' button. On the far right, there's a vertical menu with options: Cloud Shell, Directory + Subscription, Notifications (which is highlighted with a red box), Settings, Help, and Feedback.

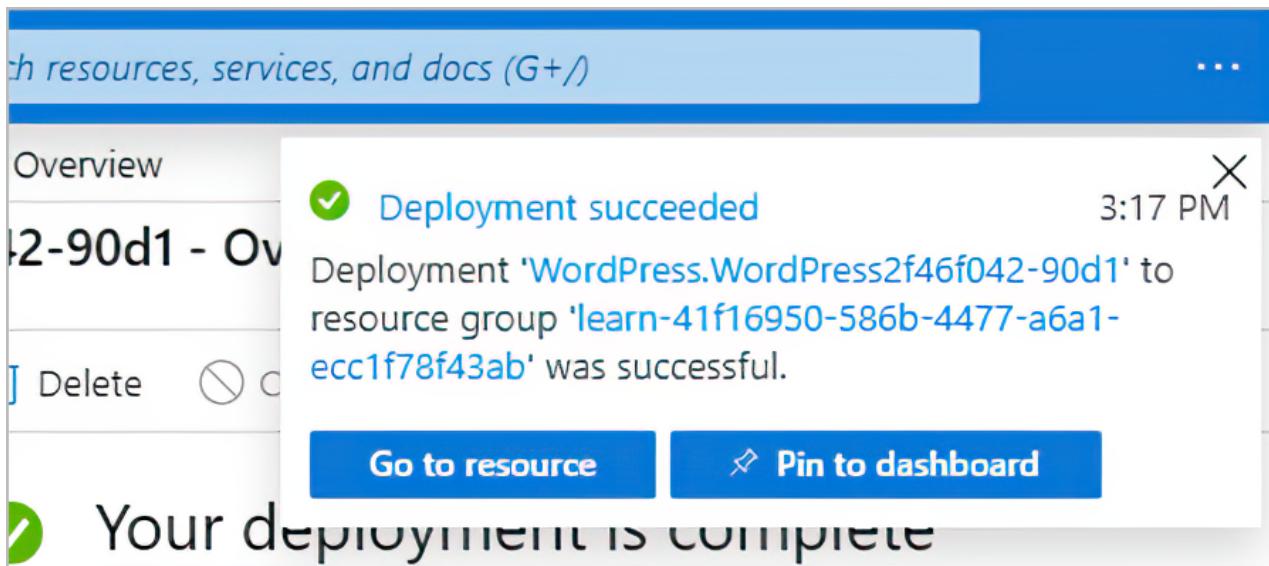
2. Select Deployment in progress to see the details about all the resources that are created.

The 'Notifications' dialog box is open. It shows a message: 'More events in the activity log →' and 'Dismiss all' with a dropdown arrow. Below that, it says 'Deployment in progress...' with a status of 'Running'. The message continues: 'Deployment to resource group 'learn-41f16950-586b-4477-a6a1-ecc1f78f43ab' is in progress.' and ends with 'a few seconds ago'.

Notice how resources are listed as they're created and the status changes to a green check mark as each component in the deployment completes.

The 'Deployment details' page is shown. It has a search bar and buttons for Delete, Cancel, Redeploy, and Refresh. On the left, there's a sidebar with 'Overview', 'Inputs', 'Outputs', and 'Template'. The main area shows a message: 'Your deployment is underway'. It details a deployment named 'WordPress.WordPress60832f44-b5ed' under a 'Concierge Subscription' in the 'Learn-8415676d-f77b-4fe1-84c3-c6079323f223' resource group. The start time was 10/1/2019, 8:05:46 AM, and the correlation ID is 1eda4f07-01a2-4739-a571-813e78ed7db9. Below this, there's a 'Deployment details' section with a download link. A table lists resources: 'BlogFor' (microsoft.insights/comp... OK), 'wordpress-service-plan' (Microsoft.Web/serverfar... OK), and another 'BlogFor' (microsoft.insights/comp... OK). Each row has a 'Operation details' link.

3. After the deployment status message changes to **Your deployment is complete**, you'll notice the status in the **Notifications** dialog box changes to **Deployment succeeded**. Select **Go to resource** to go to the App Service overview.



4. Find the **URL** in the **Overview** section.

Resource group (change)	:	Learn 00000000-0000-0000-000000000000
Status	:	Running
Location	:	Central US
Subscription (change)	:	Concierge Subscription
Subscription ID	:	00000000-0000-0000-000000000000
Tags (change)	:	<a href="#">Click here to add tags</a>
URL	:	<a href="https://blogfor.azurewebsites.net">https://blogfor.azurewebsites.net</a>
App Service Plan	:	wordpress-service-plan (F1: Free)
External Repository Proj...	:	<a href="https://github.com/azureappserviceos/wordpress-azure">https://github.com/azureappserviceos/wordpress-azure</a>

5. Copy the **URL** information by selecting the **Copy to clipboard** icon at the end of URL.

6. Open a new tab in your browser, paste this URL, and press Enter to browse to your new WordPress site. You can now configure your WordPress site, and add content.

