**Azure Functions hosting options**

* When you create a function app in Azure, you must choose a hosting plan for your app.
* There are three basic hosting plans available for Azure Functions: [Consumption plan](https://docs.microsoft.com/en-us/azure/azure-functions/consumption-plan), [Premium plan](https://docs.microsoft.com/en-us/azure/azure-functions/functions-premium-plan), and [Dedicated (App Service) plan](https://docs.microsoft.com/en-us/azure/azure-functions/dedicated-plan).
* All hosting plans are generally available (GA) on both Linux and Windows virtual machines.
* The hosting plan you choose dictates the following behaviors:
* How your function app is scaled.
* The resources available to each function app instance.
* Support for advanced functionality, such as Azure Virtual Network connectivity.

## Overview of plans

The following is a summary of the benefits of the three main hosting plans for Functions:

| * Plan | * Benefits |
| --- | --- |
| * [Consumption plan](https://docs.microsoft.com/en-us/azure/azure-functions/consumption-plan) | * Scale automatically and only pay for compute resources when your functions are running.  On the Consumption plan, instances of the Functions host are dynamically added and removed based on the number of incoming events.  ✔ Default hosting plan. ✔ Pay only when your functions are running. ✔ Scales automatically, even during periods of high load. |
| * [Premium plan](https://docs.microsoft.com/en-us/azure/azure-functions/functions-premium-plan) | * Automatically scales based on demand using pre-warmed workers which run applications with no delay after being idle, runs on more powerful instances, and connects to virtual networks.  Consider the Azure Functions Premium plan in the following situations:  ✔ Your function apps run continuously, or nearly continuously. ✔ You have a high number of small executions and a high execution bill, but low GB seconds in the Consumption plan. ✔ You need more CPU or memory options than what is provided by the Consumption plan. ✔ Your code needs to run longer than the maximum execution time allowed on the Consumption plan. ✔ You require features that aren't available on the Consumption plan, such as virtual network connectivity. ✔ You want to provide a custom Linux image on which to run your functions. |
| * [Dedicated plan](https://docs.microsoft.com/en-us/azure/azure-functions/dedicated-plan) | * Run your functions within an App Service plan at regular [App Service plan rates](https://azure.microsoft.com/pricing/details/app-service/windows/).  Best for long-running scenarios where [Durable Functions](https://docs.microsoft.com/en-us/azure/azure-functions/durable/durable-functions-overview) can't be used. Consider an App Service plan in the following situations:  ✔ You have existing, underutilized VMs that are already running other App Service instances. ✔ Predictive scaling and costs are required. |

## Operating system/runtime

The following table shows operating system and [language support](https://docs.microsoft.com/en-us/azure/azure-functions/supported-languages) for the hosting plans.

|  | **Linux1,2 code-only** | **Windows code-only** | **Linux1,2,3 Docker container** |
| --- | --- | --- | --- |
| [**Consumption plan**](https://docs.microsoft.com/en-us/azure/azure-functions/consumption-plan) | C# JavaScript Java Python PowerShell Core TypeScript | C# JavaScript Java PowerShell Core TypeScript | No support |
| [**Premium plan**](https://docs.microsoft.com/en-us/azure/azure-functions/functions-premium-plan) | C# JavaScript Java Python PowerShell Core TypeScript | C# JavaScript Java PowerShell Core TypeScript | C# JavaScript Java PowerShell Core Python TypeScript |
| [**Dedicated plan**](https://docs.microsoft.com/en-us/azure/azure-functions/dedicated-plan) | C# JavaScript Java Python TypeScript | C# JavaScript Java PowerShell Core TypeScript | C# JavaScript Java PowerShell Core Python TypeScript |