LEARN AZURE · PART 2 · BASICS

Deploy your first web app

Azure App Service, quota limits, Cloud Shell and clean-up

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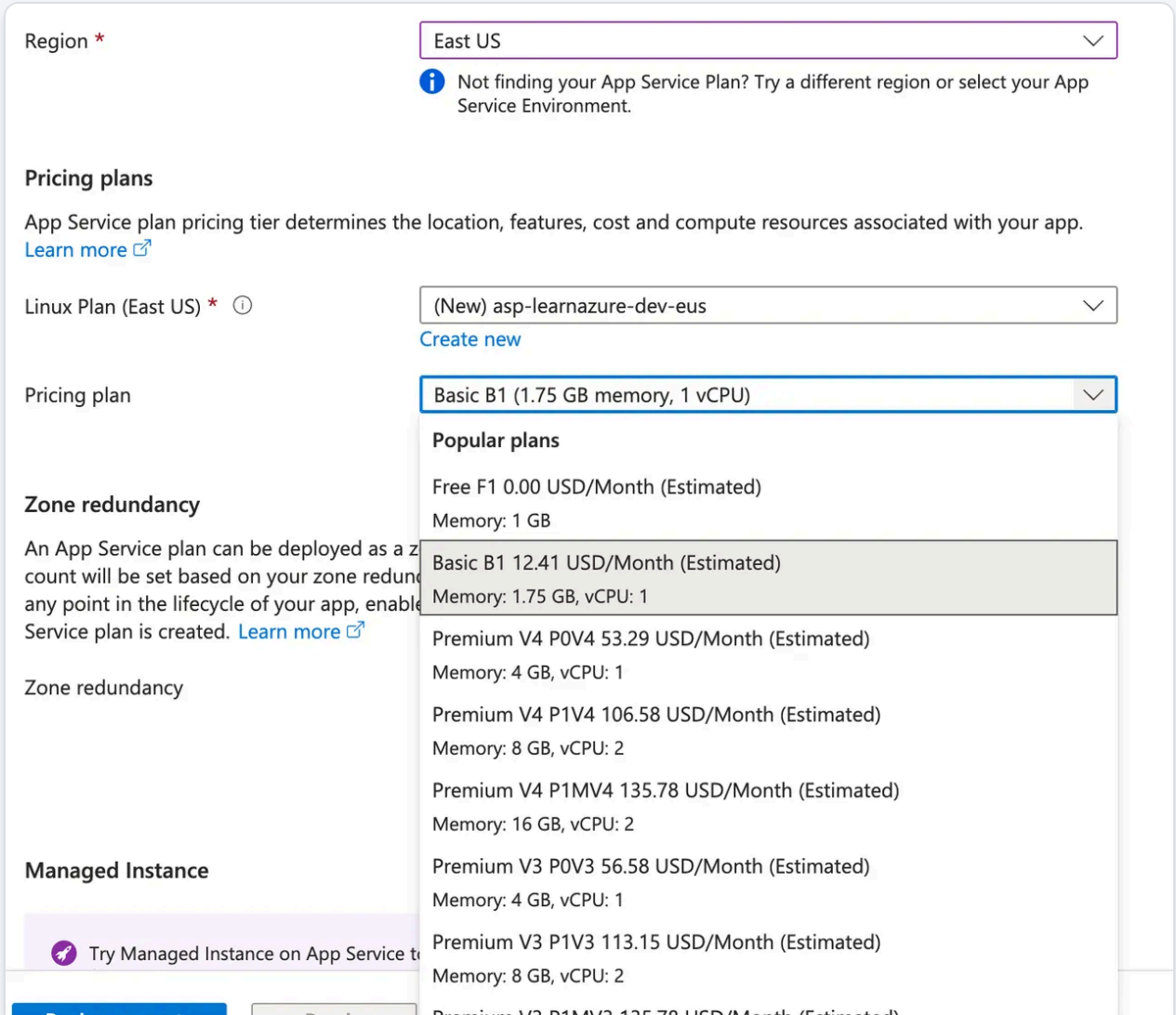
By the end of this session

- How App Service plans and web apps fit together
- A running web app at your own azurewebsites.net address
- Your own code deployed from Cloud Shell
- Everything deleted again, for a few cents in total

Two things you create, not one

App Service plan	Server capacity you pay for: size, region, OS	*Renting a kitchen*
Web app	Your application, running on the plan	*The restaurant using it*

Watch the pricing plan



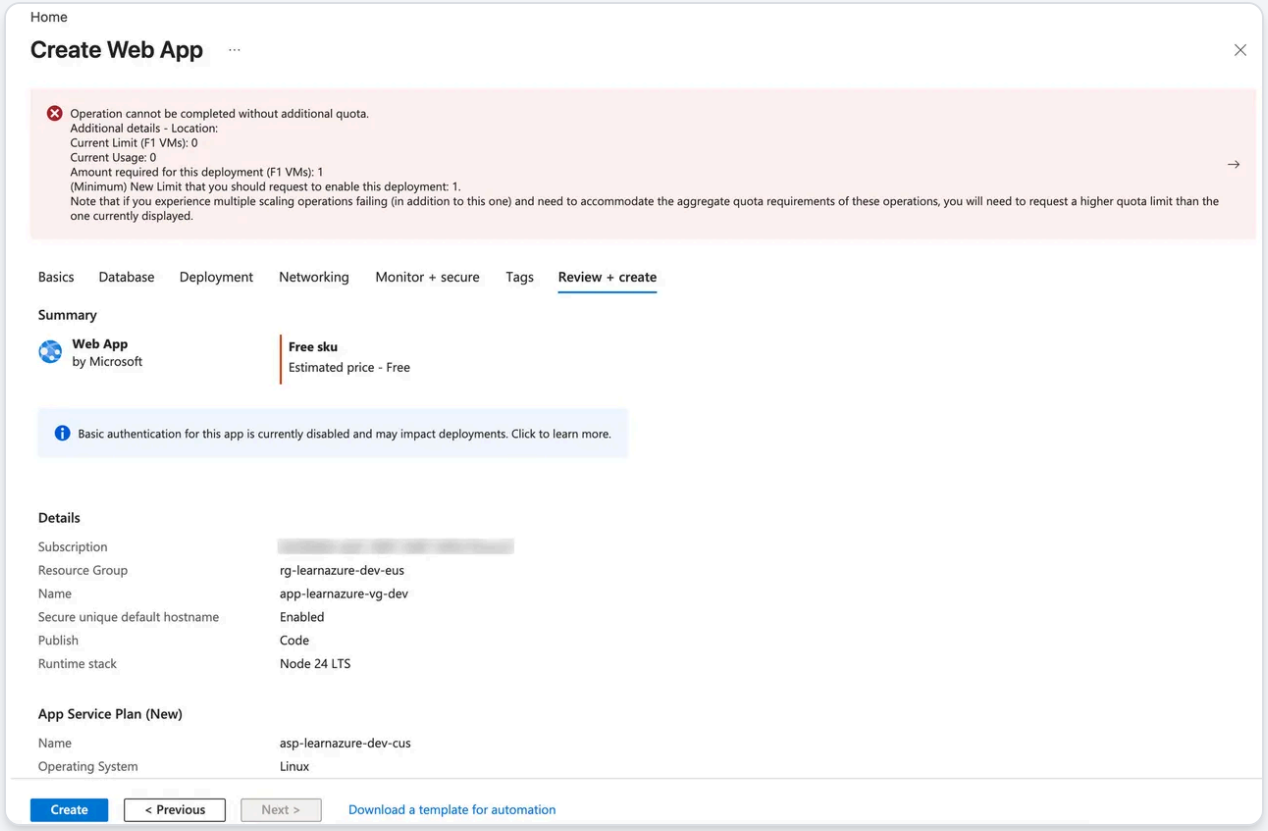
- Free F1: $0, for learning
- Basic B1: about $12.41 a month, billed hourly
- Premium: $53+ a month, for production

REMEMBER

The default is not the cheapest

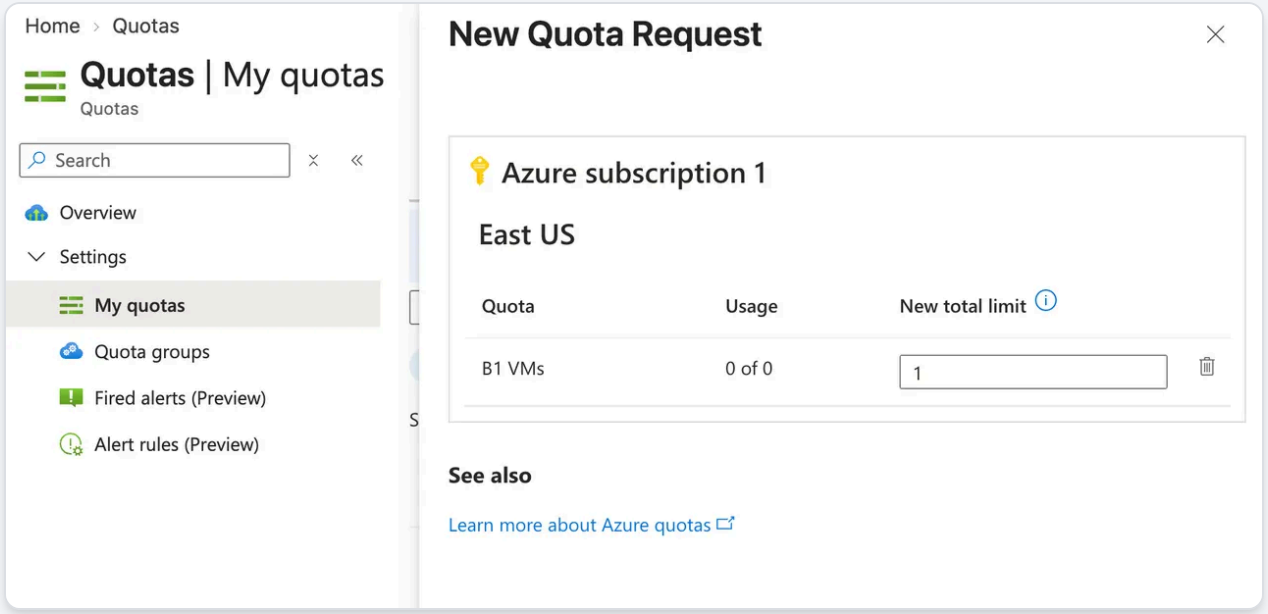
After upgrading, the form pre-selected Premium V3 at about $56 a month. Always check the pricing plan before you select Create.

When Azure says no



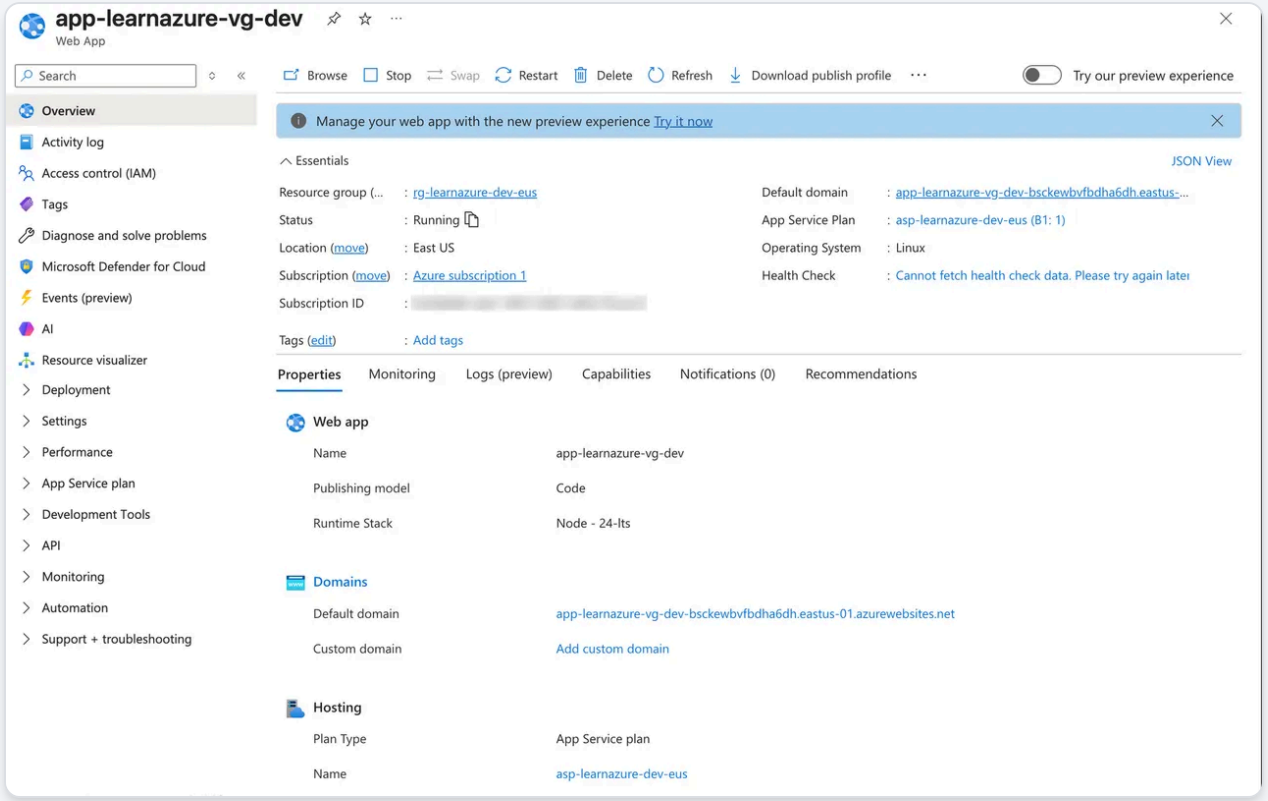
- New trial subscriptions start with an App Service quota of 0
- Even the free F1 plan is blocked
- Another region doesn't help

Getting past the quota



- 1. Upgrade to pay-as-you-go
- 2. Request B1 VMs = 1 in your region
- 3. If declined, open a free support request

Your new web app



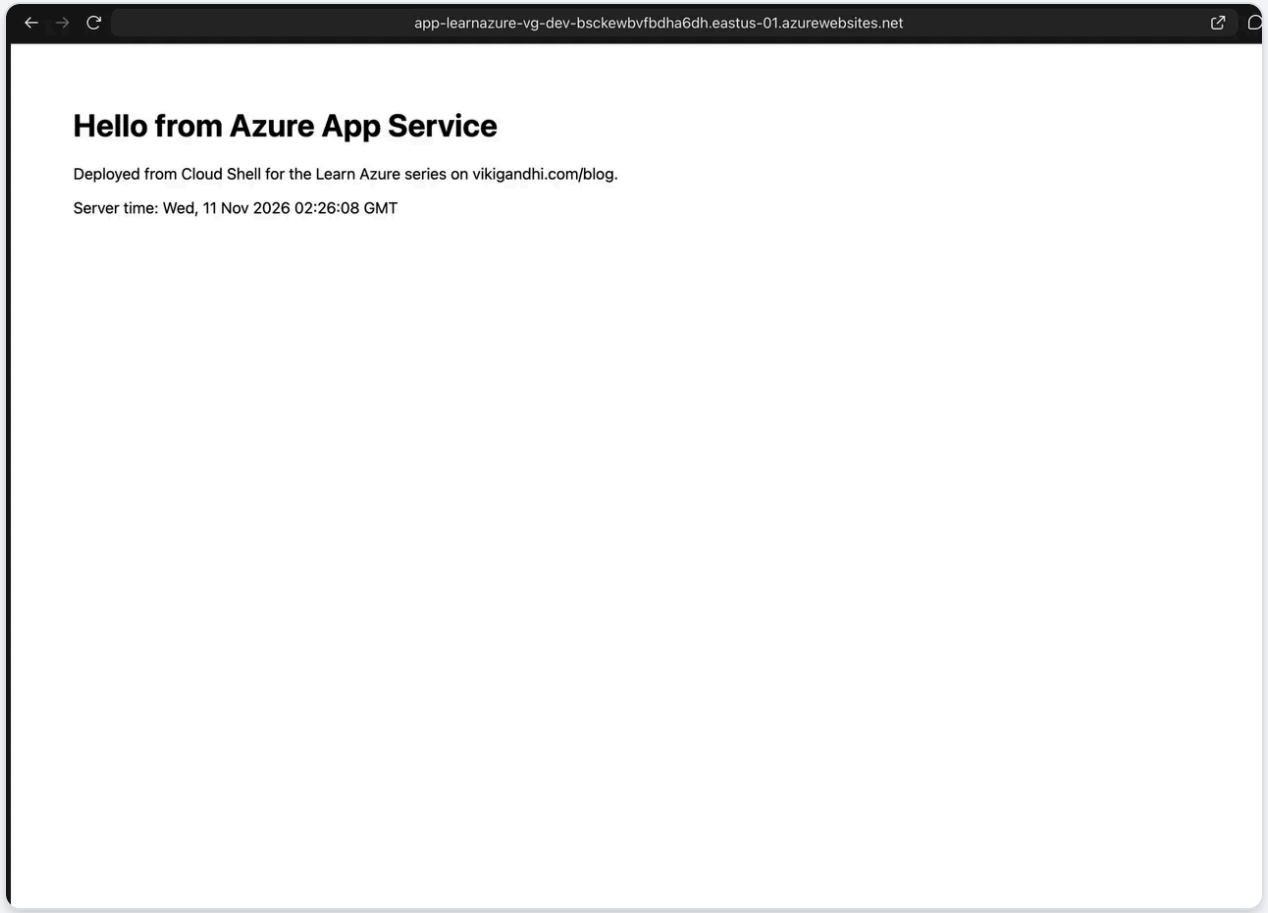
- Node 24 LTS on Linux, East US
- Plan asp-learnazure-dev-eus, B1
- Default domain ends in .azurewebsites.net

Deploy from Cloud Shell

```
Note: 'az webapp deploy' does not run build automation (dependency installation, compilation, etc.) by default for Linux web apps. If
your package is not pre-built, set the app setting SCM_DO_BUILD_DURING_DEPLOYMENT=true to enable builds during deployment.
Initiating deployment
Deploying from local path: app.zip
Warming up Kudu before deployment.
Warmed up Kudu instance successfully.
Polling the status of sync deployment. Start Time: 2026-11-11 02:23:14.385098+00:00 UTC
Status: Build successful. Time: 1(s)
Status: Starting the site... Time: 17(s)
Tip: run 'az webapp troubleshoot status --name app-learnazure-vg-dev --resource-group rg-learnazure-dev-eus' to see per-instance runti
me status and recent startup summary.
Status: Site started successfully. Time: 33(s)
Deployment has completed successfully
You can visit your app at: http://app-learnazure-vg-dev-bsckewbvfbdha6dh.eastus-01.azurewebsites.net
```

- server.js listens on process.env.PORT
- package.json has a start script
- zip, then az webapp deploy --type zip

Live on the internet



- Refresh the default domain
- If it fails: az webapp log tail

REMEMBER

Clean up so you only pay cents

A plan bills by the hour whether anyone visits or not. az webapp delete removes the app, and the plan with it when it was the last app. Keep the empty resource group for next time.

Quick check

- Delete the app but keep the plan. Still paying?
- "Current Limit (F1 VMs): 0". Will another region fix it?
- Works on port 3000 locally, errors on Azure. First check?
- Which pricing plan does the form choose by default?

Answers are in the post.

UP NEXT

Next: storage accounts, blobs and access keys

Store files in Azure, find the cheapest options, and learn why you should almost never hand out an access key.

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