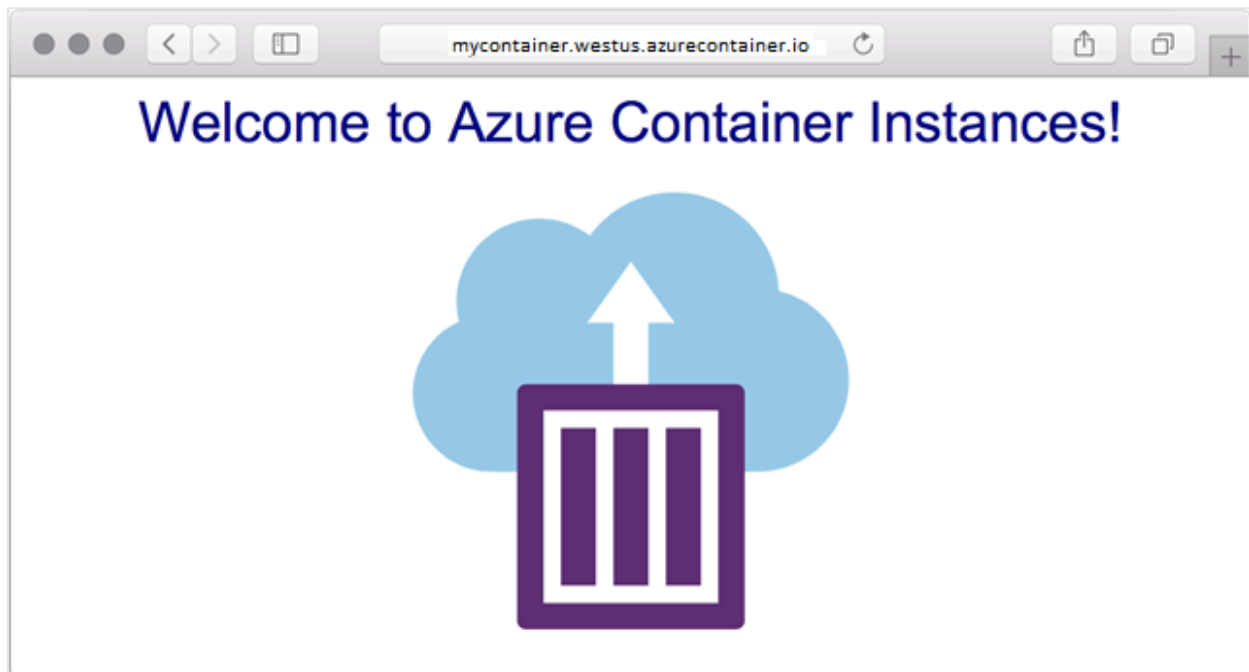


Quickstart: Deploy a container instance in Azure using the Azure portal

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Use Azure Container Instances to run serverless Docker containers in Azure with simplicity and speed. Deploy an application to a container instance on-demand when you don't need a full container orchestration platform like Azure Kubernetes Service.

In this quickstart, you use the Azure portal to deploy an isolated Docker container and make its application available with a fully qualified domain name (FQDN). After configuring a few settings and deploying the container, you can browse to the running application:



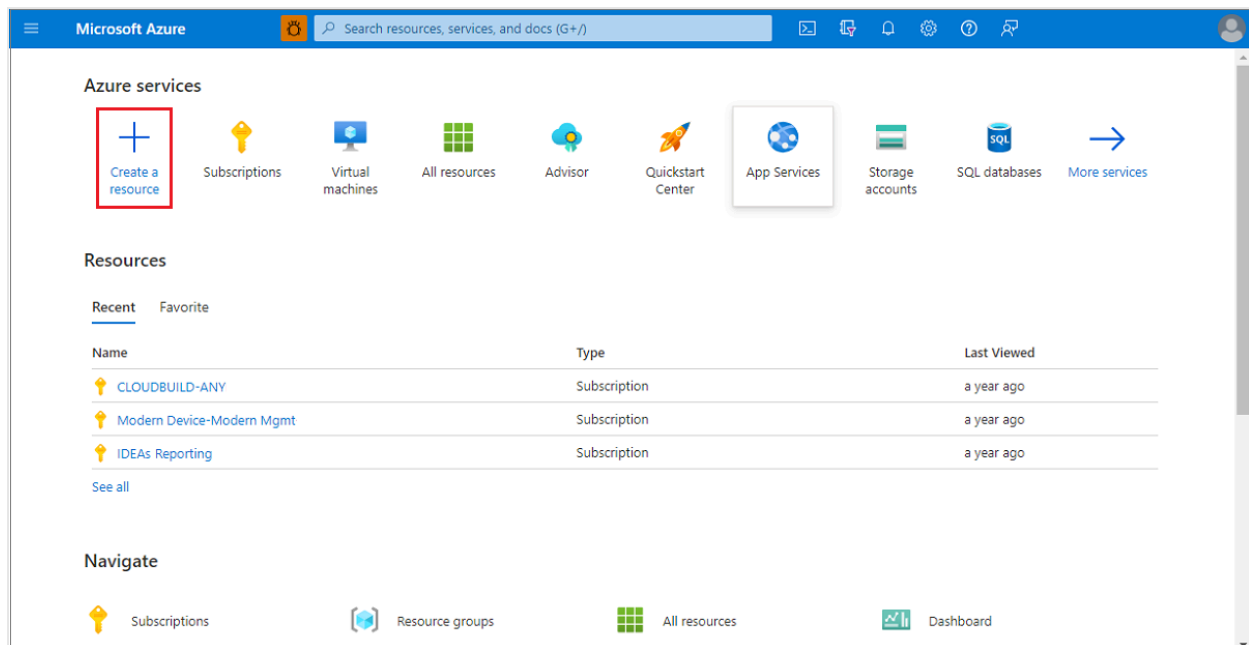
Sign in to Azure

Sign in to the [Azure portal](#) .

If you don't have an Azure subscription, create a [free account](#) before you begin.

Create a container instance

On the Azure portal homepage, select **Create a resource**.



Select **Containers** > **Container Instances**.

Microsoft Azure

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On the **Basics** page, choose a subscription and enter the following values for **Resource group**, **Container name**, **Image source**, and **Container image**.

- Resource group: **Create new** > myresourcegroup
- Container name: mycontainer
- Image source: **Quickstart images**
- Container image: mcr.microsoft.com/azuredocs/aci-helloworld:latest (Linux)

Home > Create a resource >

Create container instance ...

Basics Networking Advanced Tags Review + create

Azure Container Instances (ACI) allows you to quickly and easily run containers on Azure without managing servers or having to learn new tools. ACI offers per-second billing to minimize the cost of running containers on the cloud.
[Learn more about Azure Container Instances](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ Visual Studio Enterprise

Resource group * ⓘ (new) myresourcegroup
[Create new](#)

Container details

Container name * ⓘ mycontainer ✓

Region * ⓘ (US) East US

Availability zones ⓘ None

Image source * ⓘ ☒ Quickstart images
☐ Azure Container Registry
☐ Other registry

Image * ⓘ mcr.microsoft.com/azuredocs/aci-helloworld:latest (Linux)

Size * ⓘ 1 vcpu, 1.5 GiB memory, 0 gpus
[Change size](#)

[Review + create](#) < Previous Next: Networking >

! Note

For this quickstart, you use default settings to deploy the public Microsoft `aci-helloworld:latest` image. This sample Linux image packages a small web app written in Node.js that serves a static HTML page. You can also bring your own container images stored in Azure Container Registry, Docker Hub, or other registries.

Leave the other values as their defaults, then select **Next: Networking**.

On the **Networking** page, specify a **DNS name label** for your container. The name must be unique within the Azure region where you create the container instance. Your container will be publicly reachable at `<dns-name-label>`.

<region>.azurecontainer.io. If you receive a "DNS name label not available" error message, try a different DNS name label.

An auto-generated hash is added as a DNS name label to your container instance's fully qualified domain name (FQDN), which prevents malicious subdomain takeover. Specify the **DNS name label scope reuse** for the FQDN. You can choose one of these options:

- Tenant
- Subscription
- Resource Group
- No reuse
- Any reuse (This option is the least secure.)

For this example, select **Tenant**.

The screenshot shows the 'Create container instance' form in the Azure Portal. The 'Networking' tab is selected. The form includes the following fields and options:

- Networking type:** Radio buttons for 'Public' (selected), 'Private', and 'None'.
- DNS name label:** A text input field containing 'mycontainer'.
- DNS name label scope reuse:** A dropdown menu with 'Tenant' selected. The dropdown list shows options: 'Tenant', 'Subscription', 'Resource Group', 'No reuse', and 'Any reuse (unsecure)'.
- Ports:** A text input field containing '80'.

At the bottom of the form, there are three buttons: 'Review + create' (highlighted in blue), '< Previous', and 'Next : Advanced >'.

Leave all other settings as their defaults, then select **Review + create**.

When the validation completes, you're shown a summary of the container's settings. Select **Create** to submit your container deployment request.

Home > Create a resource >

Create container instance ...

✓ Validation passed

Basics Networking Advanced Tags Review + create

Basics

Subscription	Visual Studio Enterprise
Resource group	(new) myresourcegroup
Region	East US
Container name	mycontainer
Image type	Public
Image	mcr.microsoft.com/azuredocs/aci-helloworld:latest
OS type	Linux
Memory (GiB)	1.5
Number of CPU cores	1
GPU type (Preview)	None
GPU count	0

Networking

Networking type	Public
Ports	80 (TCP)
DNS name label	mycontainer
DNS name label scope reuse	Tenant

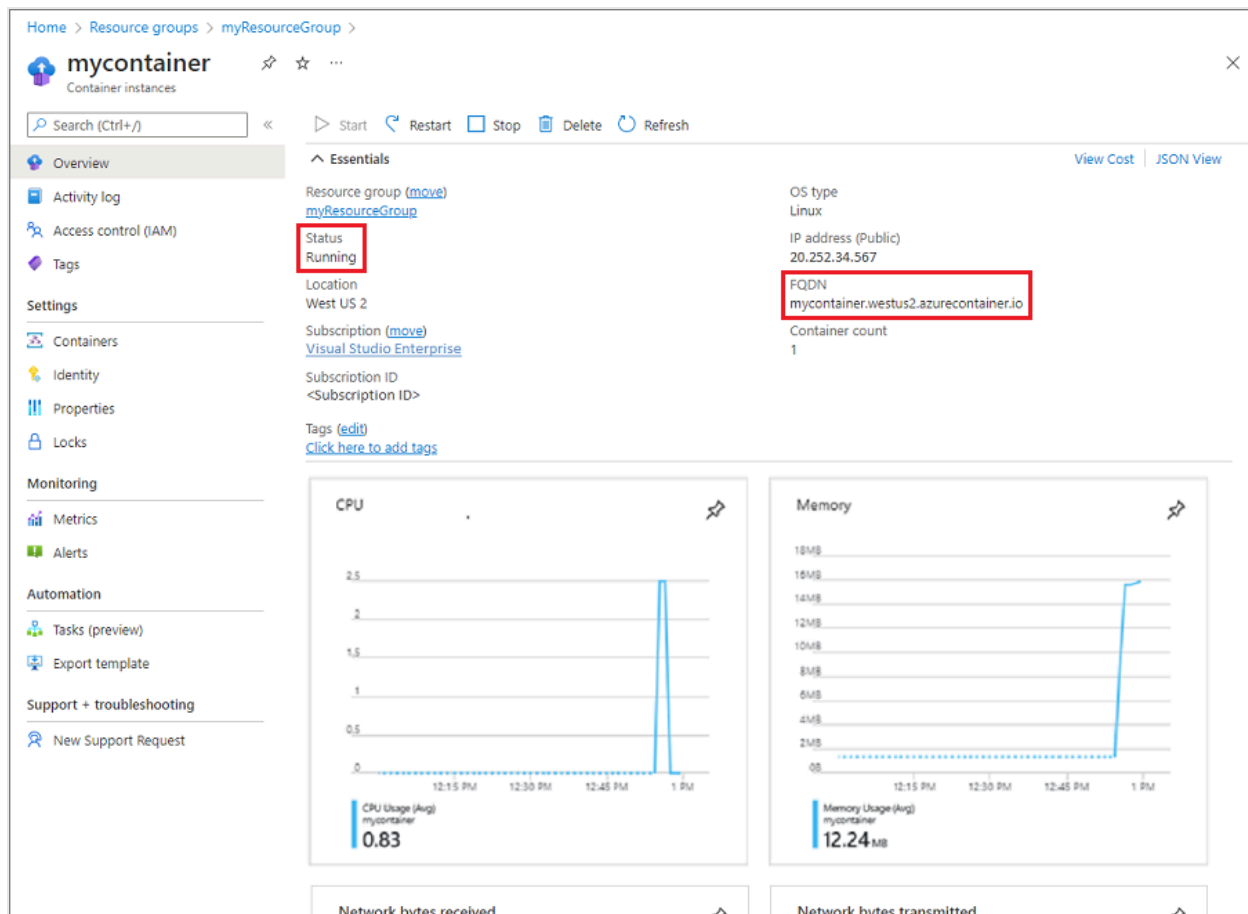
Advanced

Restart policy	On failure
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Create < Previous Next > Download a template for automation

When deployment starts, a notification appears that indicates the deployment is in progress. Another notification is displayed when the container group has been deployed.

Open the overview for the container group by navigating to **Resource Groups** > **myresourcegroup** > **mycontainer**. Make a note of the **FQDN** of the container instance and its **Status**.



Once its **Status** is *Running*, navigate to the container's FQDN in your browser.

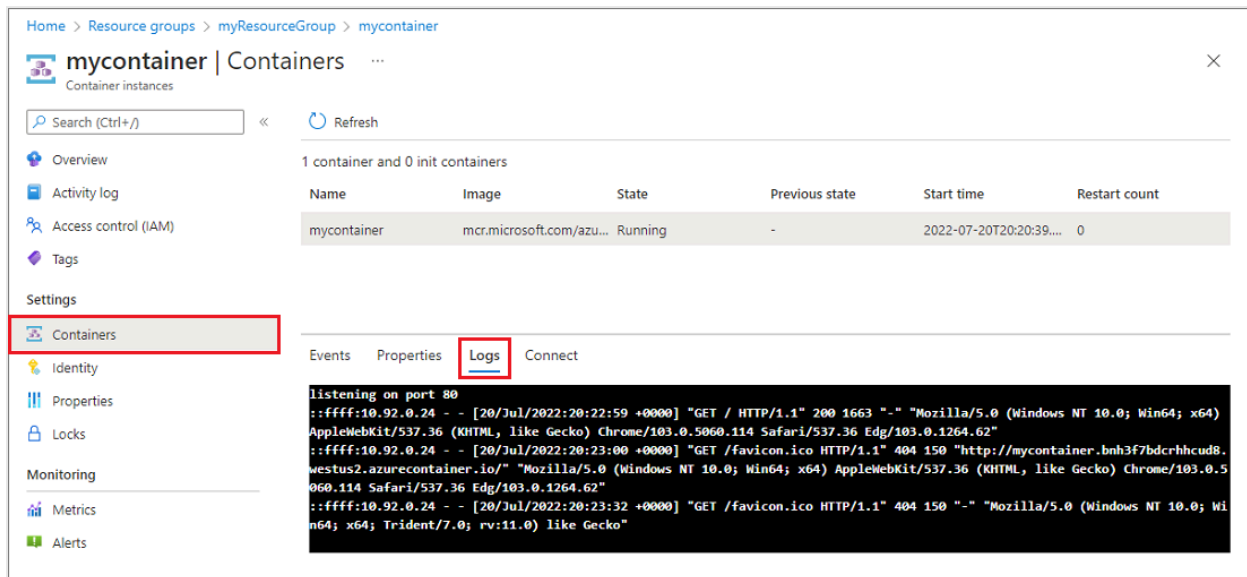


Congratulations! By configuring just a few settings, you've deployed a publicly accessible application in Azure Container Instances.

View container logs

Viewing the logs for a container instance is helpful when troubleshooting issues with your container or the application it runs.

To view the container's logs, under **Settings**, select **Containers** > **Logs**. You should see the HTTP GET request generated when you viewed the application in your browser.



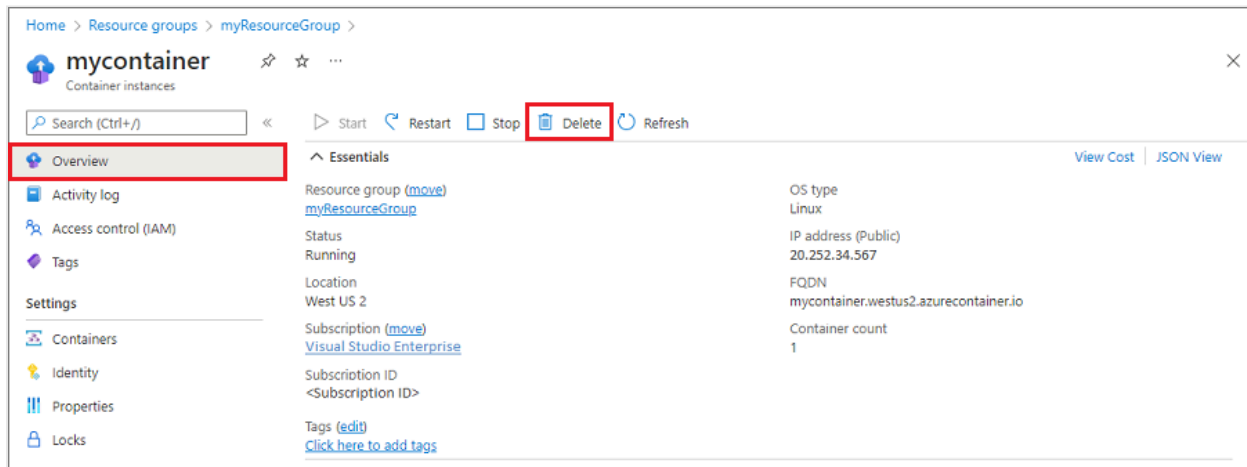
The screenshot shows the Azure Portal interface for a container instance named 'mycontainer'. The 'Containers' page is active, and the 'Logs' tab is selected. The logs display a list of HTTP GET requests, including requests for the root path and favicon.ico. The 'Containers' link in the left sidebar is highlighted with a red box, and the 'Logs' tab in the top navigation bar is also highlighted with a red box.

Name	Image	State	Previous state	Start time	Restart count
mycontainer	mcr.microsoft.com/azu...	Running	-	2022-07-20T20:20:39...	0

```
listening on port 80
::ffff:10.92.0.24 - - [20/Jul/2022:20:22:59 +0000] "GET / HTTP/1.1" 200 1663 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.5060.114 Safari/537.36 Edg/103.0.1264.62"
::ffff:10.92.0.24 - - [20/Jul/2022:20:23:00 +0000] "GET /favicon.ico HTTP/1.1" 404 150 "http://mycontainer.bnh3f7bdcrrhucd8.westus2.azurecontainer.io/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.5060.114 Safari/537.36 Edg/103.0.1264.62"
::ffff:10.92.0.24 - - [20/Jul/2022:20:23:32 +0000] "GET /favicon.ico HTTP/1.1" 404 150 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64; Trident/7.0; rv:11.0) like Gecko"
```

Clean up resources

When you're done with the container, select **Overview** for the *mycontainer* container instance, then select **Delete**.



The screenshot shows the Azure Portal interface for a container instance named 'mycontainer'. The 'Overview' page is active, and the 'Delete' button is highlighted with a red box. The 'Overview' link in the left sidebar is also highlighted with a red box.

Resource group (move)	OS type
myResourceGroup	Linux
Status	IP address (Public)
Running	20.252.34.567
Location	FQDN
West US 2	mycontainer.westus2.azurecontainer.io
Subscription (move)	Container count
Visual Studio Enterprise	1
Subscription ID	
<Subscription ID>	
Tags (edit)	
Click here to add tags	

Select **Yes** when the confirmation dialog appears.

Delete container instances

Do you want to delete all container instances in container group 'mycontainer'?

Yes

No

Next steps

In this quickstart, you created an Azure container instance from a public Microsoft image. If you'd like to build a container image and deploy it from a private Azure container registry, continue to the Azure Container Instances tutorial.

[Azure Container Instances tutorial](#)