

Create Container Instance and deploy a simple docker application on it. Create Container Groups and test functionality

Azure Container Instance (ACI) is a service that allows us to run containers directly in Azure, without managing any virtual machines or orchestrators like Kubernetes. It provides a fast, serverless, and event-driven way to deploy and run containers in the cloud.

We are using Azure container instance to make the instance of our docker image that is available on Azure Container Registry.

For this process at the first we create a container instance service in our Azure portal and deploy it along with the container registry in which the docker image is stored. One container instance is used to make one container of an image.

The screenshot shows the 'Create container instance' page in the Azure portal, specifically the 'Basics' tab. The page is titled 'Create container instance' and includes a breadcrumb trail: 'All services > Resource groups > ResourceGroup1 > Marketplace > Container Instances >'. The 'Basics' tab is selected, with other tabs like 'Networking', 'Monitoring', 'Advanced', 'Tags', and 'Review + create' visible. The page contains the following fields and options:

- Subscription:** MOC Subscription-Iod50717490
- Resource group:** ResourceGroup1
- Container details:**
 - Container name:** firstcontainer
 - Region:** (Asia Pacific) Southeast Asia
 - Availability zones (Preview):** None
 - SKU:** Standard
- Image source:** Azure Container Registry (selected), with options for Quickstart images and Other registry.

At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next: Networking >'. A 'Give feedback' link is also present.

The screenshot shows the 'Create container instance' page in the Azure portal, specifically the 'Networking' tab. The page is titled 'Create container instance' and includes a breadcrumb trail: 'Home >'. The 'Networking' tab is selected, with other tabs like 'Basics', 'Monitoring', 'Advanced', 'Tags', and 'Review + create' visible. The page contains the following fields and options:

- Region:** (Asia Pacific) Southeast Asia
- Availability zones (Preview):** None
- SKU:** Standard
- Image source:** Azure Container Registry (selected), with options for Quickstart images and Other registry.
- Run with Azure Spot discount:** []
- Registry:** Select an Azure Container Registry
- Image:** Select an image
- Image tag:** Select an image tag
- OS type:** Determining OS...
- Size:** 1 vcpu, 1.5 GiB memory, 0 gpus

At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next: Networking >'. A 'Give feedback' link is also present.

The above figure describe our first container instance of our Azure container registry with container name as 'firstcontainer'.

The screenshot shows the 'Create container instance' wizard in the Azure portal, specifically the 'Basics' step. The page title is 'Create container instance - Microsoft Azure'. The breadcrumb navigation shows 'Home >'. The main heading is 'Create container instance'. Below this, there are tabs for 'Basics', 'Networking', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. A brief description of Azure Container Instances (ACI) is provided. The 'Project details' section asks to select a subscription and resource group. The 'Container details' section includes fields for 'Container name' (set to 'secondcontainer'), 'Region' (set to '(Asia Pacific) Southeast Asia'), 'Availability zones (Preview)' (set to 'None'), and 'SKU' (set to 'Standard'). There is also a section for 'Image source' with radio buttons for 'Quickstart images', 'Azure Container Registry' (selected), and 'Other registry'. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Networking >'. A 'Give feedback' link is also present.

Microsoft Azure

Home >

Create container instance

Basics Networking Monitoring 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 *

Resource group * [Create new](#)

Container details

Container name *

Region *

Availability zones (Preview)

SKU
Standard SKU is available for all regions. Confidential SKU is only available for specific regions. [Learn more](#)

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

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

The screenshot shows the 'Create container instance' wizard in the Azure portal, specifically the 'Networking' step. The page title is 'Create container instance - Microsoft Azure'. The breadcrumb navigation shows 'Home >'. The main heading is 'Create container instance'. Below this, there are tabs for 'Basics', 'Networking', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Networking' section includes fields for 'Region' (set to '(Asia Pacific) Southeast Asia'), 'Availability zones (Preview)' (set to 'None'), and 'SKU' (set to 'Standard'). There is a section for 'Image source' with radio buttons for 'Quickstart images', 'Azure Container Registry' (selected), and 'Other registry'. A section for 'Run with Azure Spot discount' has a checkbox that is unchecked. The 'Registry' section has a dropdown menu set to 'Select an Azure Container Registry'. The 'Image' section has dropdown menus for 'Image' (set to 'Select an image') and 'Image tag' (set to 'Select an image tag'). The 'OS type' is set to 'Determining OS...'. The 'Size' is set to '1 vcpu, 1.5 GiB memory, 0 gpus'. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Networking >'. A 'Give feedback' link is also present.

Microsoft Azure

Home >

Create container instance

Basics Networking Monitoring Advanced Tags Review + create

Region *

Availability zones (Preview)

SKU
Standard SKU is available for all regions. Confidential SKU is only available for specific regions. [Learn more](#)

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

Run with Azure Spot discount ☐
Spot containers are not available in the selected region. [Learn more](#)

Registry *
If you do not see your Azure Container Registry, ensure you have been assigned the Reader Role for the Azure Container Registry or select an Azure Container Registry in a different subscription. [Learn more](#)

Image *

Image tag *

OS type

Size * [Change size](#)

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

The above figures describe our second container instance of our Azure container registry with container name as 'secondcontainer'.

By such way we can create multiple instance of a docker image that is available in Azure container registry of a single docker file.

Yes we have multiple images available on container registry then we can create multiple instance of those images 1 by 1 as per required and buy available given address we can access them.