

# Deploy an Azure Kubernetes Service (AKS) cluster using the Azure portal

The screenshot shows the 'Create Kubernetes cluster' page in the Azure portal. The browser tabs include 'Functions', 'WriteXO - P', 'Using Mini...', 'Overview |', 'Deploy an /', 'Quickstart', 'portal.azure', and 'Create Kube'. The URL is 'https://portal.azure.com/#create/microsoft.aks'. The page title is 'Create Kubernetes cluster'. The 'Basics' tab is selected, with other tabs being 'Node pools', 'Access', 'Networking', 'Integrations', 'Advanced', 'Tags', and 'Review + create'. A description of AKS is provided. Under 'Project details', the 'Subscription' is 'Free Trial' and the 'Resource group' is '(New) myResourceGroup'. Under 'Cluster details', the 'Cluster preset configuration' is 'Standard (\$\$)'. Navigation buttons at the bottom are 'Review + create', '< Previous', and 'Next : Node pools >'. An 'Activate Windows' watermark is visible on the right side.

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## Create Kubernetes cluster

Basics Node pools Access Networking Integrations Advanced Tags Review + create

Azure Kubernetes Service (AKS) manages your hosted Kubernetes environment, making it quick and easy to deploy and manage containerized applications without container orchestration expertise. It also eliminates the burden of ongoing operations and maintenance by provisioning, upgrading, and scaling resources on demand, without taking your applications offline. [Learn more](#)

**Project details**

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

Subscription \* Free Trial

Resource group \* (New) myResourceGroup  
[Create new](#)

**Cluster details**

Cluster preset configuration Standard (\$\$)

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

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The screenshot shows the 'Create Kubernetes cluster' page in the Azure portal, specifically the 'Node pools' tab. The browser tabs and URL are the same as in the previous screenshot. The 'Cluster preset configuration' remains 'Standard (\$\$)'. The 'Kubernetes cluster name' is 'myAKSCluster'. The 'Region' is '(US) East US'. The 'Availability zones' are 'Zones 1,2,3', with a note: 'High availability is recommended for standard configuration.' The 'AKS pricing tier' is 'Standard'. The 'Kubernetes version' is '1.25.6 (default)'. The 'Automatic upgrade' is 'Enabled with patch (recommended)'. The 'Primary node pool' section is partially visible at the bottom. Navigation buttons at the bottom are 'Review + create', '< Previous', and 'Next : Node pools >'. An 'Activate Windows' watermark is visible on the right side.

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## Create Kubernetes cluster

Cluster preset configuration Standard (\$\$)

To quickly customize your Kubernetes cluster, choose one of the preset configurations above. You can modify these configurations at any time. [Learn more and compare presets](#)

Kubernetes cluster name \* myAKSCluster

Region \* (US) East US

Availability zones Zones 1,2,3  
High availability is recommended for standard configuration.

AKS pricing tier Standard

Kubernetes version \* 1.25.6 (default)

Automatic upgrade Enabled with patch (recommended)

**Primary node pool**

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

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Functions x WriteXO - P x Using Mini x Overview | x Deploy an x Quickstart x portal.azure x Create Kube x

https://portal.azure.com/#create/microsoft.aks

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## Create Kubernetes cluster

additional node pools or to see additional configuration options for this node pool, go to the 'Node pools' tab above. You will be able to add additional node pools after creating your cluster.  
[Learn more about node pools in Azure Kubernetes Service](#)

Node size \* ⓘ

Standard DS2 v2  
Standard DS2\_v2 is recommended for standard configuration.  
[Change size](#)

Scale method \* ⓘ

☐ Manual  
☒ Autoscale  
Autoscaling is recommended for standard configuration.

Node count range \* ⓘ

1  4

⚠ The maximum node count you have selected is higher than the remaining quota for this subscription. Autoscaling may fail above 2 nodes due to quota restrictions (4 cores remaining).

Review + create < Previous Next : Node pools >

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Windows taskbar: 13:50 12-06-2023

Functions x WriteXO - P x Using Mini x Overview | x Deploy an x Quickstart x portal.azure x Create Kube x

https://portal.azure.com/#create/microsoft.aks

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## Create Kubernetes cluster

Basics **Node pools** Access Networking Integrations Advanced Tags Review + create

### Node pools

In addition to the required primary node pool configured on the Basics tab, you can also add optional node pools to handle a variety of workloads. [Learn more about node pools](#)

+ Add node pool Delete

Name	Mode	OS type	Node count	Node size
<input type="checkbox"/> agentpool	System	Linux	1-2	Standard_DS2_v2

Enable virtual nodes

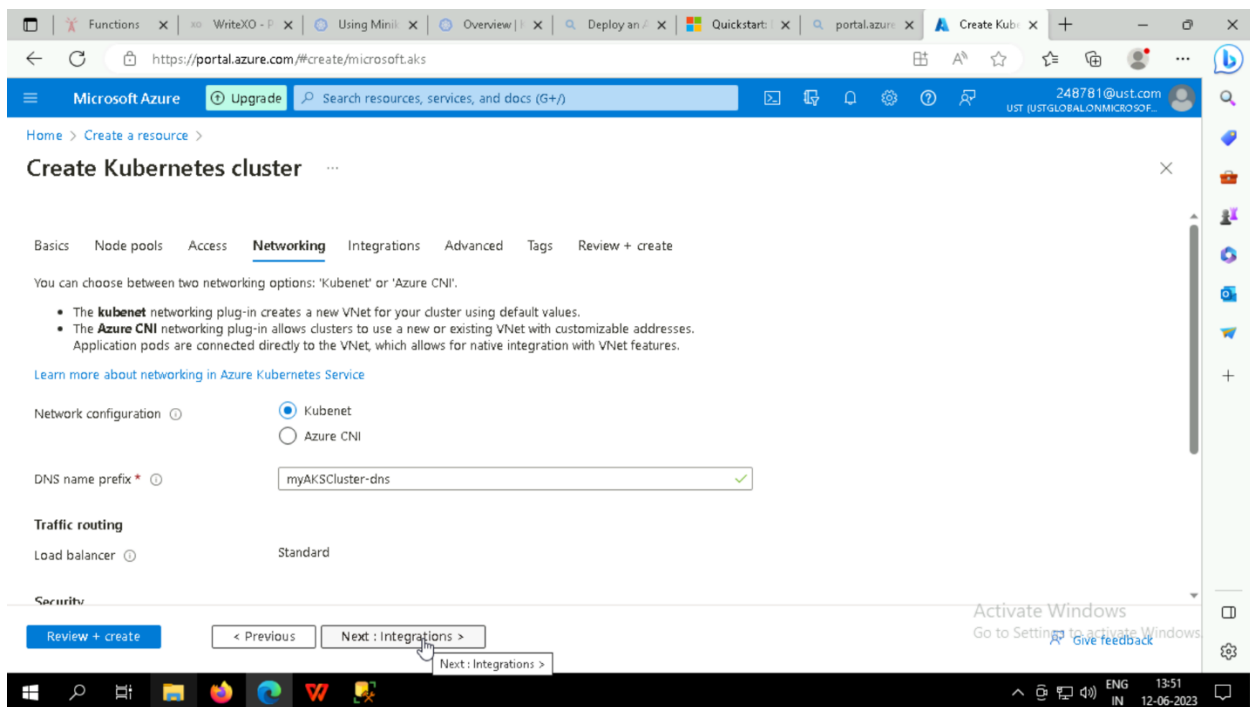
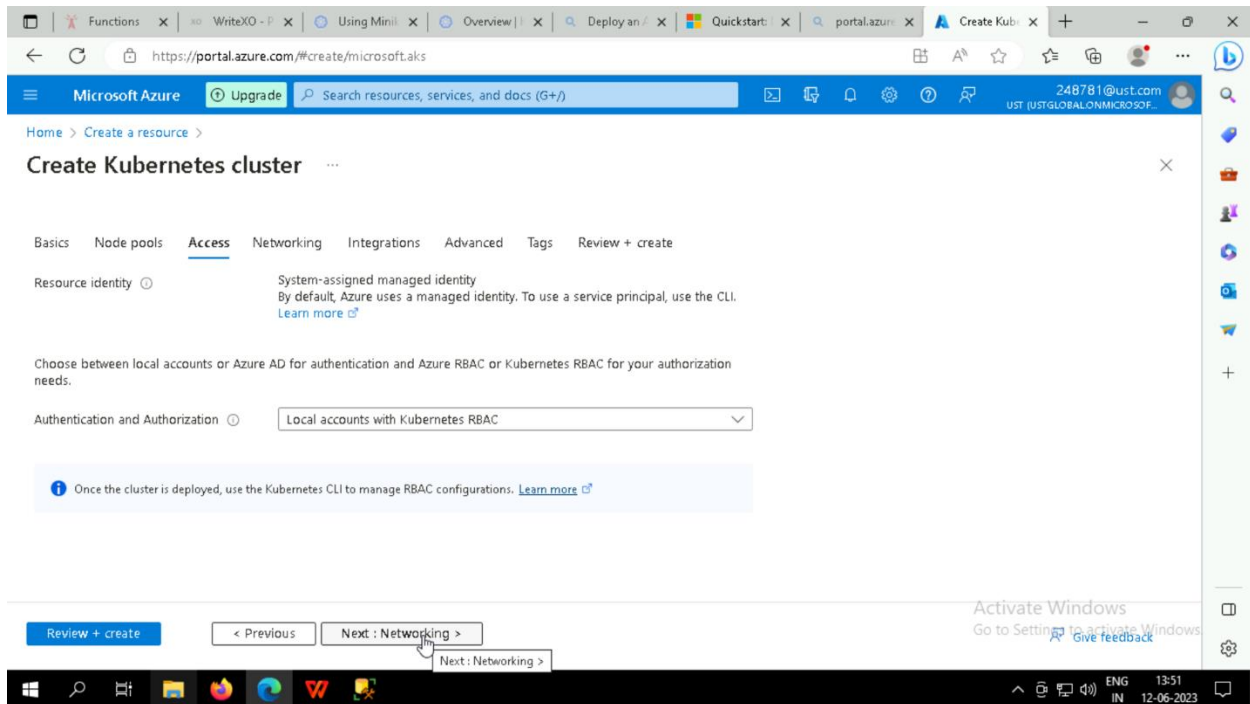
Virtual nodes allow burstable scaling backed by serverless Azure Container Instances. [Learn more about virtual nodes](#)

Enable virtual nodes ⓘ ☐

Review + create < Previous Next : Access >

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Functions x WriteXO - P x Using Mini x Overview | x Deploy an x Quickstart x portal.azure x Create Kube x

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## Create Kubernetes cluster

Basics Node pools Access Networking **Integrations** Advanced Tags Review + create

Connect your AKS cluster with additional services.

**Microsoft Defender for Cloud**  
Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✓ Your subscription is protected by Microsoft Defender for Cloud basic plan.

**Azure Container Registry**  
Connect your cluster to an Azure Container Registry to enable seamless deployments from a private image registry. [Learn more about Azure Container Registry](#)

Container registry: None [Create new](#)

**Azure Monitor**

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

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Functions x WriteXO - P x Using Mini x Overview | x Deploy an x Quickstart x portal.azure x Create Kube x

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## Create Kubernetes cluster

Basics Node pools Access Networking Integrations **Advanced** Tags Review + create

Enable secret store CSI driver ☐

Infrastructure resource group MC\_myResourceGroup\_myAKSCluster\_eastus [Edit](#)

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

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Home > Create a resource >

## Create Kubernetes cluster

Basics | Node pools | Access | Networking | Integrations | Advanced | **Tags** | Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name : Value : Resource (2 selected)

Review + create | < Previous | Next : Review + create >

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Home > Create a resource >

## Create Kubernetes cluster

Basics | Node pools | Access | Networking | Integrations | Advanced | Tags | **Review + create**

Validation passed

Basics

Subscription	Free Trial
Resource group	(new) myResourceGroup
Region	East US
Kubernetes cluster name	myAKSCluster
Kubernetes version	1.25.6
Automatic upgrade	Patch

Node pools

Node pools	1
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Create | < Previous | Next > | Download a template for automation

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Microsoft Azure portal showing the overview of the myAKSCluster. The cluster is in the 'Running' state. Key details include:

- Resource group: myResourceGroup
- Status: Succeeded (Running)
- Location: East US
- Subscription: Free Trial
- Subscription ID: fa76a6af-7647-42c4-8557-550fa4cea7fe
- Kubernetes version: 1.25.6
- API server address: myakscluster-dns-49gwod0p.hcp.eastus.azure.io
- Network type (plugin): Kubenet
- Node pools: 1 node pool

The interface includes a sidebar with navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Namespaces, Workloads, Services and ingresses, Storage, Configuration, and Settings. A 'Terminal container button' is visible at the bottom of the terminal window.

Microsoft Azure portal showing the overview of the myAKSCluster. The cluster is in the 'Running' state. Key details include:

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