

Using Azure Cloud Service Provider to create Kubernetes clusters

Microsoft Azure

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Home > Kubernetes services >

Create Kubernetes cluster

[Learn more and compare presets](#)

Kubernetes cluster name *

demo0

Region *

(Asia Pacific) Southeast Asia

Availability zones

Zone 1

⚠ Using multiple zones is recommended for control plane resiliency. This cannot be updated after deploying the cluster.

AKS pricing tier

Free

Kubernetes version *

1.24.9 (default)

Automatic upgrade

Enabled with patch (recommended)

Primary node pool

Primary node pool
The number and size of nodes in the primary node pool in your cluster. For production workloads, at least 3 nodes are recommended for resiliency. For development or test workloads, only one node is required. If you would like to add 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

2

Review + create

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Next : Node pools >

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Create Kubernetes cluster

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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 ☐

Node pool OS disk encryption

Node pool OS disk encryption

By default, all disks in AKS are encrypted at rest with Microsoft-managed keys. For additional control over encryption, you can supply your own keys using a disk encryption set backed by an Azure Key Vault. The disk encryption set will be used to encrypt the OS disks for all node pools in the cluster. [Learn more](#)

Encryption type (Default) Encryption at-rest with a platform-managed key

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

Resource identity

System-assigned managed identity

By default, Azure uses a managed identity. To use a service principal, use the CLI. [Learn more](#)

Choose between local accounts or Azure AD for authentication and Azure RBAC or Kubernetes RBAC for your authorization needs.

Authentication and Authorization Local accounts with Kubernetes RBAC

Once the cluster is deployed, use the Kubernetes CLI to manage RBAC configurations. [Learn more](#)

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

You can change networking settings for your cluster, including enabling HTTP application routing and configuring your network using either the 'Kubernetes' or 'Azure CNI' options:

- The **kubernetes** networking plug-in creates a new VNet for your cluster using default values.
- The **Azure CNI** networking plug-in allows clusters to use a new or existing VNet with customizable addresses. Application pods are connected directly to the VNet, which allows for native integration with VNet features.

[Learn more about networking in Azure Kubernetes Service](#)

Network configuration ⓘ

☒ Kubernetes

☐ Azure CNI

DNS name prefix * ⓘ

demo0-dns ✓

Traffic routing

Traffic routing

Load balancer ⓘ

Standard

Enable HTTP application routing ⓘ

☐

Security

Security

Enable private cluster ⓘ

☐

Set authorized IP ranges ⓘ

☐

Network policy ⓘ

☒ None

☐ Calico

☐ Azure

ⓘ

The Azure network policy is not compatible with kubernetes networking.

Create Kubernetes cluster

...

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Running final validation...

- Basics
- Node pools
- Access
- Networking
- Integrations
- Advanced
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- Review + create

Basics

Subscription	Azure subscription 1
Resource group	(new) Oliseh
Region	Sweden Central
Kubernetes cluster name	demo0
Kubernetes version	1.24.9
Automatic upgrade	Patch

Node pools

Node pools	1
Enable virtual nodes	Disabled

Access

Resource identity	System-assigned managed identity
Local accounts	Enabled
Authentication and Authorization	Local accounts with Kubernetes RBAC
Encryption type	(Default) Encryption at-rest with a platform-managed key

Networking

Network configuration	Kubenet
DNS name prefix	demo0-dns

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✕

✔ Validation passed

Basics

Node pools

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Basics	
Subscription	Azure subscription 1
Resource group	(new) Oliseh
Region	East US
Kubernetes cluster name	demo0
Kubernetes version	1.24.9
Automatic upgrade	Patch
Node pools	
Node pools	1
Enable virtual nodes	Disabled
Access	
Resource identity	System-assigned managed identity
Local accounts	Enabled
Authentication and Authorization	Local accounts with Kubernetes RBAC
Encryption type	(Default) Encryption at-rest with a platform-managed key
Networking	
Network configuration	Kubenet
DNS name prefix	demo0-dns

Create

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✔ Validation passed

Basics

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Basics	
Subscription	Azure subscription 1
Resource group	(new) Oliseh
Region	East US
Kubernetes cluster name	demo0
Kubernetes version	1.24.9
Automatic upgrade	Patch
Node pools	
Node pools	1
Enable virtual nodes	Disabled
Access	
Resource identity	System-assigned managed identity
Local accounts	Enabled
Authentication and Authorization	Local accounts with Kubernetes RBAC
Encryption type	(Default) Encryption at-rest with a platform-managed key
Networking	
Network configuration	Kubenet
DNS name prefix	demo0-dns

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*** Initializing deployment...

Initializing template deployment to resource group 'Oliseh'.

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Home > Oliseh >

demo0

Kubernetes service

Search

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Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Kubernetes resources

Namespaces

Workloads

Services and ingresses

Storage

Configuration

Settings

Node pools

Cluster configuration

Networking

Backup (Preview)

Open Service Mesh

GitOps

Deployment center (deprecated)

Automated deployments (preview)

Policies

Creating

JSON View

Essentials

Resource group : Oliseh

Status : Creating (Running)

Location : East US

Subscription : Azure subscription 1

Subscription ID : 41b2cae5-294b-495f-b194-54e679d4dc1b

Tags (edit) : Click here to add tags

Kubernetes version : 1.24.9

API server address : demo0-dns-n2n7mqkh.hcp.eastus.azmk8s.io

Network type (plugin) : Kubenet

Node pools : 1 node pool

Get started

Properties

Monitoring

Capabilities (3)

Recommendations

Tutorials

Kubernetes services

Encryption type

Encryption at-rest with a platform-managed key

Virtual node pools

Not enabled

Node pools

Node pools

1 node pool

Kubernetes versions

1.24.9

Node sizes

Standard_DS2_v2

Configuration

Kubernetes version

1.24.9

Auto Upgrade Type

Patch

Authentication and Authorization

Local accounts with Kubernetes RBAC

Local accounts

Enabled

Networking

API server address

demo0-dns-n2n7mqkh.hcp.eastus.azmk8s.io

Network type (plugin)

Kubenet

Pod CIDR

10.244.0.0/16

Service CIDR

10.0.0.0/16

DNS service IP

10.0.0.10

Docker bridge CIDR

172.17.0.1/16

Network Policy

None

Load balancer

standard

HTTP application routing

Not enabled

Private cluster

Not enabled

Authorized IP ranges

Not enabled

Application Gateway ingress controller

Not enabled

Integrations

https://portal.azure.com/?quickstart=true#

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Home >

Container registries

Default Directory

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Filter for any field...

Subscription equals all

Resource group equals all

Location equals all

Add filter

Showing 0 to 0 of 0 records.

No grouping

List view

Name

Type

Resource group

Location

Subscription



No container registries to display

Build, store, secure, scan, replicate, and manage container images and artifacts with a fully managed, geo-replicated instance of OCI distribution. Connect across environments, including Azure Kubernetes Service and Azure Red Hat OpenShift, and across Azure services like App Service, Machine Learning, and Batch.

[Create container registry](#)[Learn more](#)[Give feedback](#)

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Create container registry

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Basics Networking **Encryption** Tags Review + create

Azure Container Registry service encryption protects your data at rest. Azure Container Registry encrypts your images and other artifacts when they're pushed to your registry and automatically decrypts when you pull them. [Learn more](#)

Customer-Managed Key ☐ Enabled ☒ Disabled

⚠ Customer-Managed Key is only available for Premium SKU.

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Create container registry

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✔ Validation passed

Basics Networking Encryption Tags **Review + create**

Registry details

Basics	
Registry name	oliseh
Subscription	Azure subscription 1
Resource Group	Oliseh
Location	UK West
Availability zones	Disabled
SKU	Standard

Networking	
Public network access	Yes

Encryption	
Customer-Managed Key	Disabled
Identity	None
Key Vault	None
Encryption key	None
Version	None

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Project Settings

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General

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Service hooks

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Boards

Project configuration

Team configuration

GitHub connections

Pipelines

Agent pools

Parallel jobs

Settings

Test management

Release retention

Service connections

XAML build services

Repos

Repositories

Agent pools

Name

Azure Pipelines

Azure Pipelines

Default

Azure Pipelines

Add agent pool

Agent pools are shared across an organization.

Pool to link:

New

Existing

Pool type:

Self-hosted

A pool of agents that you set up and manage on your own to run jobs. [Learn more.](#)

Name:

localOContainer

Description (optional):

Markdown supported.

Pipeline permissions:

Grant access permission to all pipelines

Create

