Create an Azure Red Hat OpenShift 4 cluster

Article • 02/25/2025

Azure Red Hat OpenShift is a managed OpenShift service that lets you quickly deploy and manage clusters. This article shows you how to deploy an Azure Red Hat OpenShift cluster using either Azure CLI or the Azure portal.

Azure portal

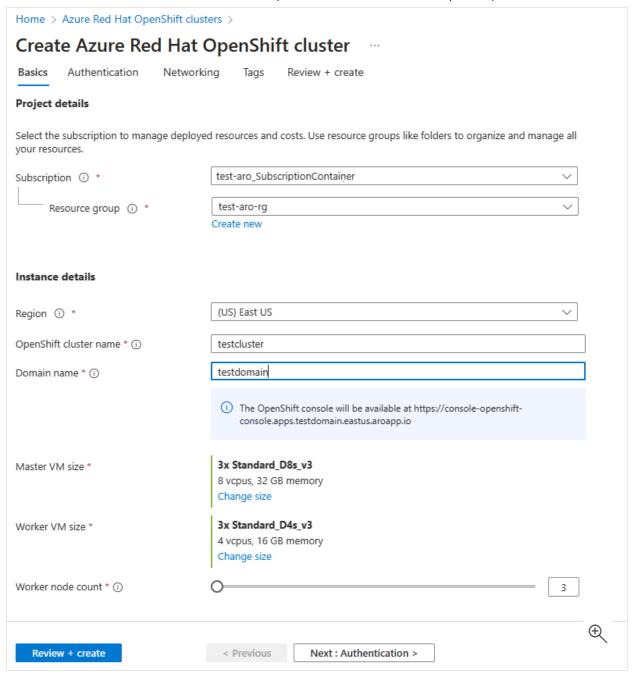
Before you begin

Sign in to the Azure portal .

Register the Microsoft.RedHatOpenShift resource provider. For instructions on registering resource providers using Azure portal, see Register resource provider.

Create an Azure Red Hat OpenShift cluster

- 1. On the Azure portal menu or from the **Home** page, select **All Services** under three horizontal bars on the top left hand page.
- 2. Search for and select Azure Red Hat OpenShift clusters.
- 3. Select Create.
- 4. On the **Basics** tab, configure the following options:
 - Project details:
 - Select an Azure Subscription.
 - Select or create an Azure **Resource group**, such as *myResourceGroup*.
 - Instance details:
 - Select a Region for the Azure Red Hat OpenShift cluster.
 - Enter an **OpenShift cluster name**, such as *myAROCluster*.
 - Enter a Domain name.
 - Select Master VM Size and Worker VM Size.
 - Select **Worker node count** (i.e., the number of worker nodes to create).



① Note

The **Domain name** field is pre-populated with a random string. You can either specify a domain name (e.g., *example.com*) or a string/prefix (e.g., *abc*) that will be used as part of the auto-generated DNS name for OpenShift console and API servers. This prefix is also used as part of the name of the resource group that is created to host the cluster VMs if a resource group name is not specified.

5. On the **Authentication** tab, complete the following sections.

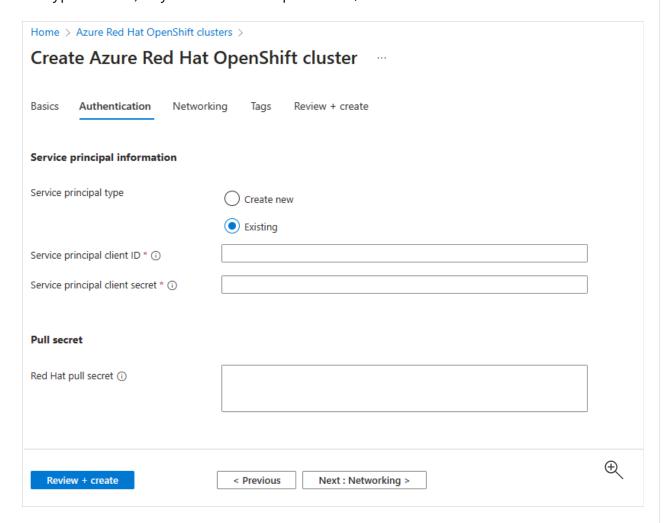
Under **Service principal information**, select either **Create new** or **Existing**. If you choose to use an existing service principal, enter the following information:

- Service principal client ID is your appld.
- Service principal client secret is the service principal's decrypted Secret value.

① Note

If you need to create a service principal, see <u>Creating and using a service principal</u> with an Azure Red Hat <u>OpenShift cluster</u>.

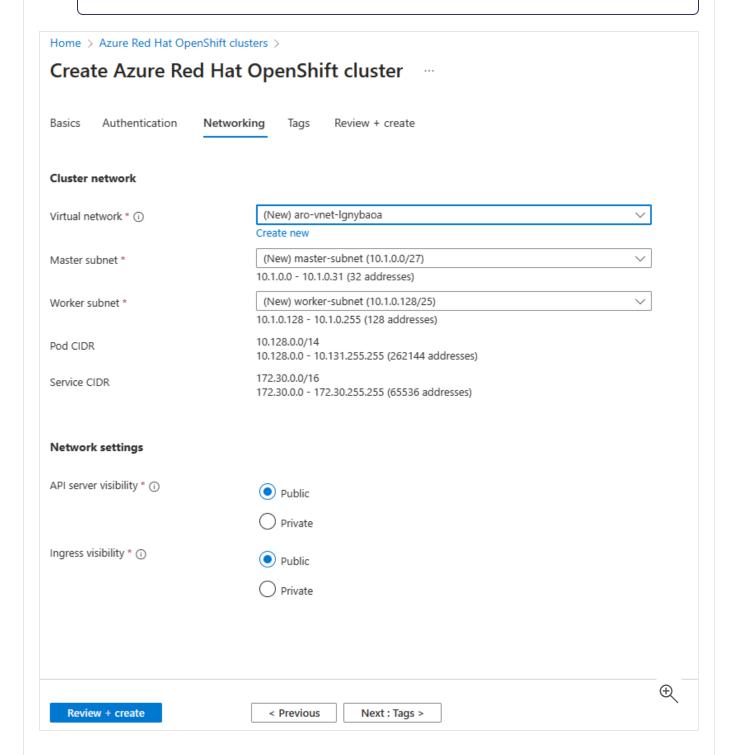
Under **Pull secret**, enter the **Red Hat pull secret** (i.e., your cluster's pull secret's decrypted value). If you don't have a pull secret, leave this field blank.



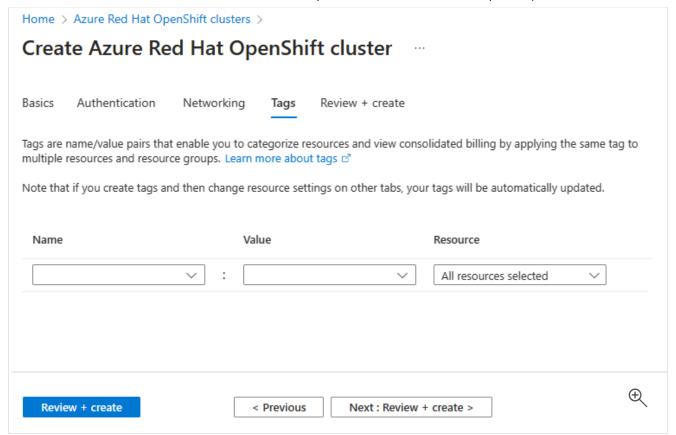
6. On the **Networking** tab, configure the required options.

① Note				

Azure Red Hat OpenShift clusters running OpenShift 4 require a virtual network with two empty subnets: one for the control plane and one for worker nodes.



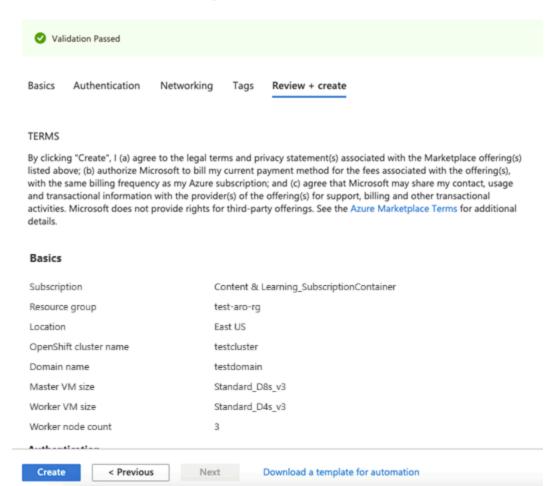
7. On the **Tags** tab, add tags to organize your resources.



8. Check **Review + create** and then **Create** when validation completes.

Home > Azure Red Hat OpenShift >

Create Azure Red Hat OpenShift



- 9. It takes approximately 35 to 45 minutes to create the Azure Red Hat OpenShift cluster. When your deployment is complete, navigate to your resource by either:
 - Clicking Go to resource, or
 - Browsing to the Azure Red Hat OpenShift cluster resource group and selecting the Azure Red Hat OpenShift resource.
 - Per example cluster dashboard below: browsing for myResourceGroup and selecting myAROCluster resource.

Next steps

Learn how to connect to an Azure Red Hat OpenShift cluster.