

Validation Results: NetApp HCI for Red Hat OpenShift on RHV

NetApp Solutions

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This PDF was generated from https://docs.netapp.com/us-en/netapp-solutions/containers/rh-os-rhv_validation_results.html on October 21, 2021. Always check docs.netapp.com for the latest.

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Validation Results: NetApp HCI for Red Hat OpenShift on RHV

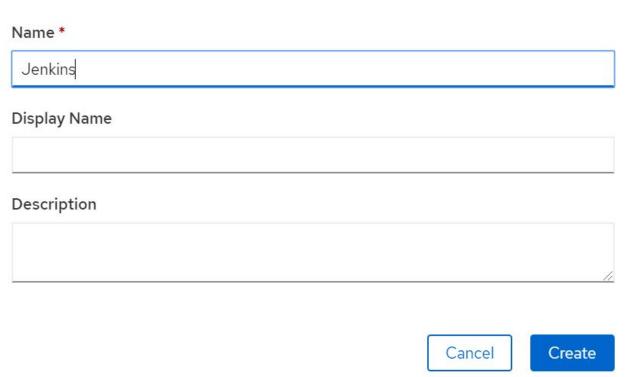
This section provides the steps to deploy a continuous integration/continuous delivery or deployment (CI/CD) pipeline with Jenkins in order to validate the operation of the solution.

Create the Resources Required for Jenkins Deployment

To create the resources required for deploying the Jenkins application, complete the following steps:

1. Create a new project named Jenkins.





2. In this example, we deployed Jenkins with persistent storage. To support the Jenkins build, create the PVC. Navigate to Storage > Persistent Volume Claims and click Create Persistent Volume Claim. Select the storage class that was created, make sure that the Persistent Volume Claim Name is jenkins, select the appropriate size and access mode, and then click Create.

Create Persistent Volume Claim Edit YAML Storage Class SC basic Storage class for the new claim. Persistent Volume Claim Name * jenkins A unique name for the storage claim within the project. Access Mode * Single User (RWO) Shared Access (RWX) Read Only (ROX) Permissions to the mounted drive. Size * 100 GiB Desired storage capacity. Use label selectors to request storage Use label selectors to define how storage is created. Create Cancel

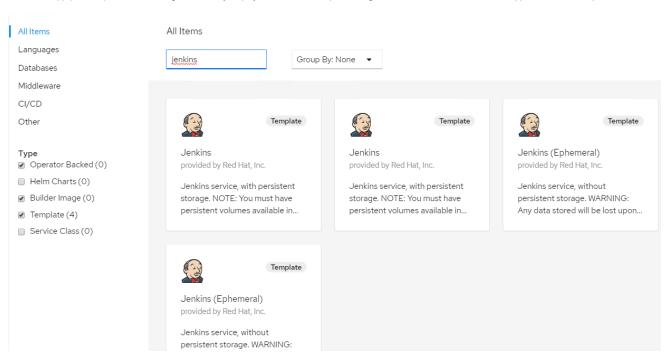
Deploy Jenkins with Persistent Storage

To deploy Jenkins with persistent storage, complete the following steps:

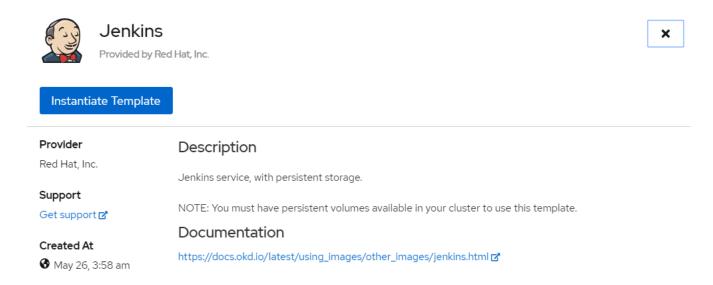
1. In the upper left corner, change the role from Administrator to Developer. Click +Add and select From Catalog. In the Filter by Keyword bar, search jenkins. Select Jenkins Service, with Persistent Storage.

Developer Catalog

Add shared apps, services, or source-to-image builders to your project from the Developer Catalog. Cluster admins can install additional apps which will show up here automatical



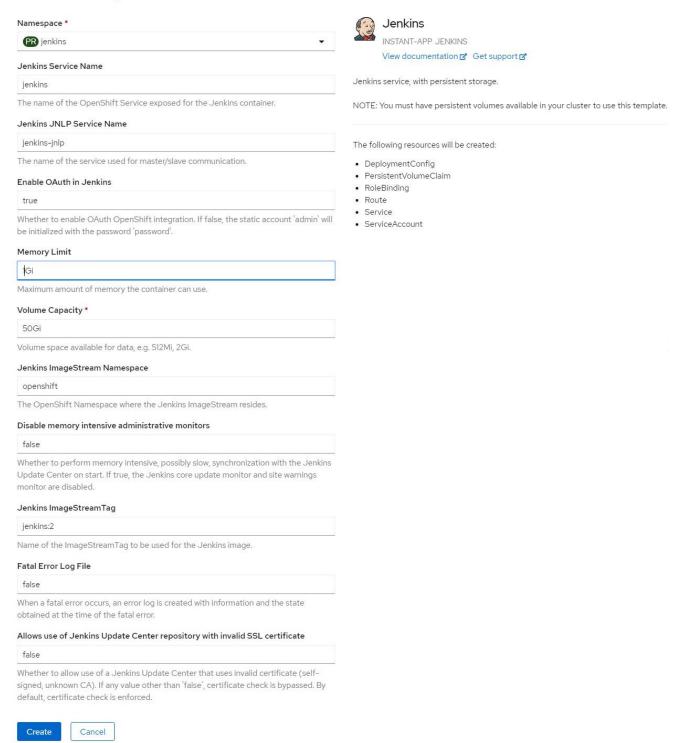
2. Click Instantiate Template.



3. By default, the details for the Jenkins application are populated. Based on your requirements, modify the parameters, and click Create. This process creates all the required resources for supporting Jenkins on

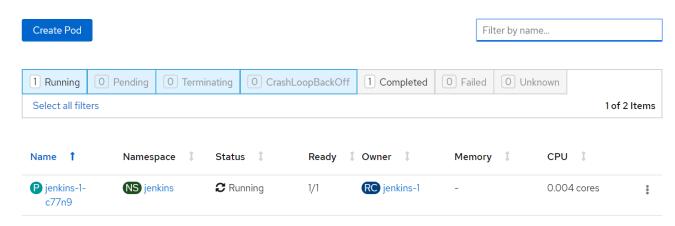
OpenShift.

Instantiate Template

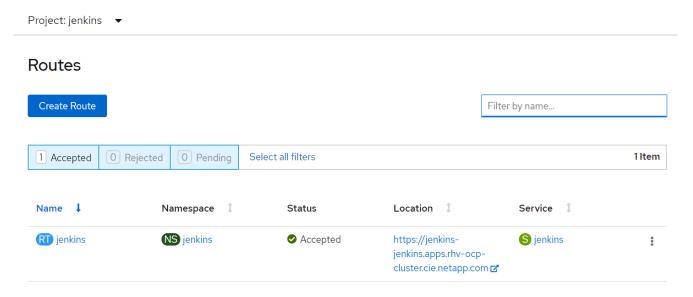


4. The Jenkins pods take approximately 10-12 minutes to enter the Ready state.

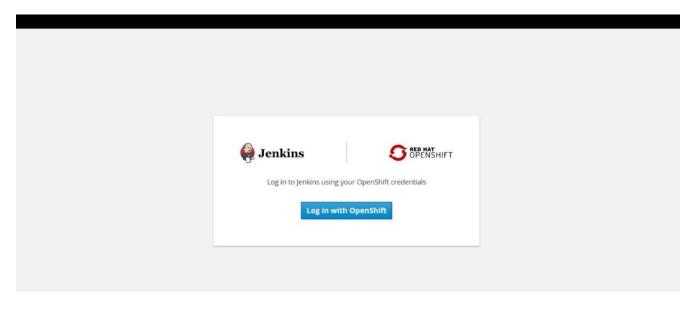
Pods



5. After the pods are instantiated, navigate to Networking > Routes. To open the Jenkins webpage, click the URL provided for the jenkins route.



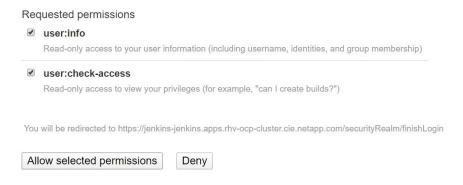
6. Because the OpenShift OAuth was used while creating the Jenkins app, click Log in with OpenShift.



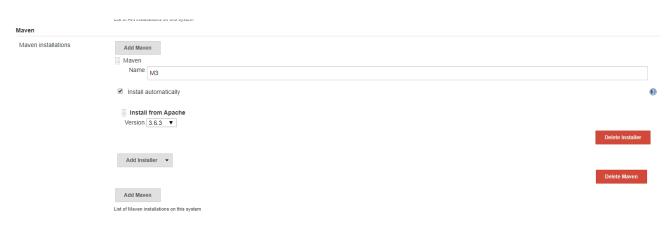
7. Authorize jenkins service-account to access the OpenShift users.

Authorize Access

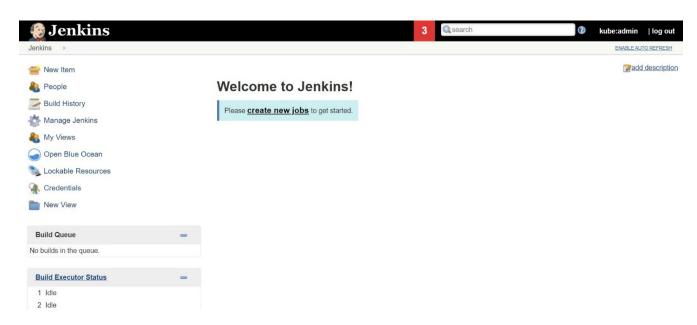
Service account jenkins in project jenkins is requesting permission to access your account (kube:admin)



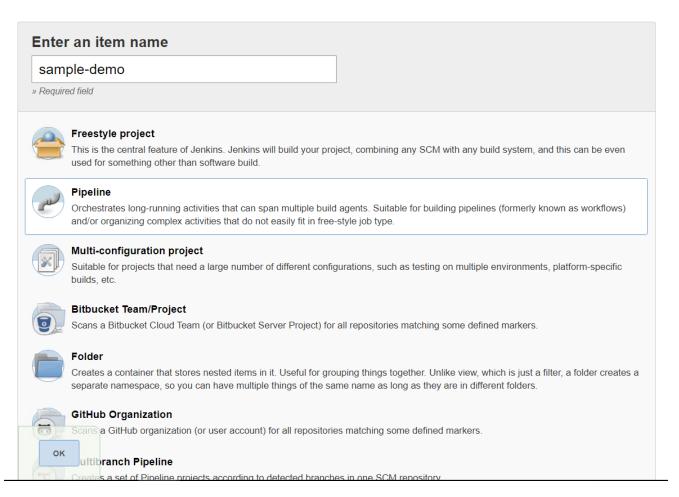
8. The Jenkins welcome page is displayed. Because we are using a Maven build, complete the Maven installation first. Navigate to Manage Jenkins > Global Tool Configuration, then in the Maven subhead, click Add Maven. Enter the name of your choice and make sure that the Install Automatically option is selected. Click Save.



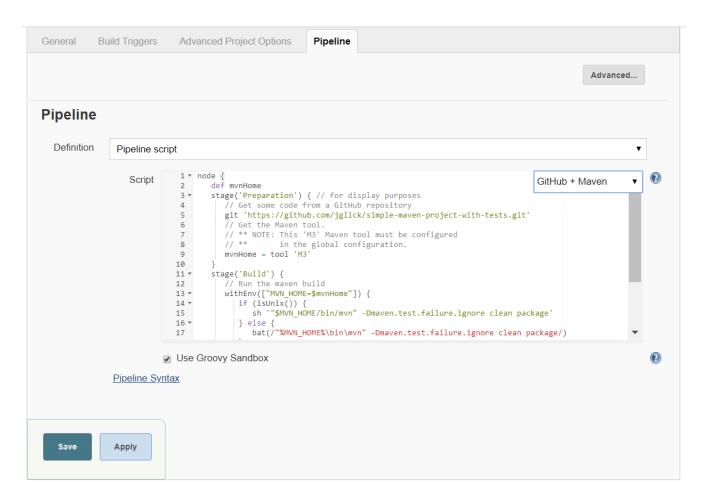
9. You can now create a pipeline to demonstrate the CI/CD workflow. On the home page, click Create New Jobs or New Item from the left- hand menu.



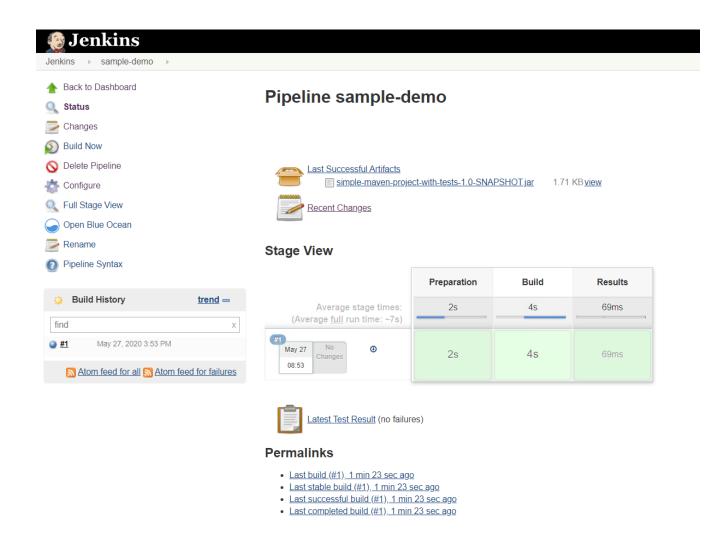
10. On the Create Item page, enter the name of your choice, select Pipeline, and click Ok.



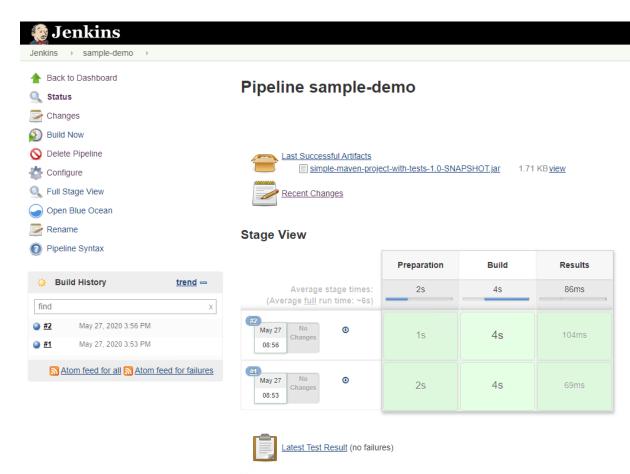
11. Select the Pipeline tab. From the Try Sample Pipeline drop- down menu, select Github + Maven. The code is automatically populated. Click Save.



12. Click Build Now to trigger the development through the preparation, build, and testing phase. It can take several minutes to complete the whole build process and display the results of the build.



13. Whenever there are any code changes, the pipeline can be rebuilt to patch the new version of software enabling continuous integration and continuous delivery. Click Recent Changes to track the changes from the previous version.



Permalinks

- Last build (#2), 19 sec ago
- · Last stable build (#2), 19 sec ago
- Last successful build (#2), 19 sec ago

 Last completed build (#2), 19 sec ago

Next: Best Practices for Production Deployments

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