

6- OPENSIFT SERVICE ACCOUNT CONCEPT



Sezgin KEŞÇİOĞLU tarafından oluşturuldu
Son güncelleme: Eki 23, 2022

A service account is an OpenShift Container Platform account that allows a component to **directly access the API**. Service accounts are API objects that exist within each project. [Service accounts provide a flexible way to control API access without sharing a regular user's credentials.](#)

SERVICE ACCOUNT LAB SECTION

▼ Genişletmek için buraya tıklayın...





Creating Service Account & Authorization & Authentication For Jenkins Deployment

```
1 #SERVICE ACCOUNT CREATION AND GRATING COMMAND TEMPLATES
2
3 oc create serviceaccount <service-account-name>
4 oc policy add-role-to-user edit system:serviceaccount:<service-account-name> -n <project-name>
5 oc adm policy add-cluster-role-to-user edit system:serviceaccount:<project-name>:<service-account-name>
6 oc create token <service-account-name>
```

```
C:\>cmd
```

```
C:\TOOLS\cmd>  
λ oc create serviceaccount jenkins-deployer  
serviceaccount/jenkins-deployer created  
  
C:\TOOLS\cmd>  
λ oc policy add-role-to-user edit system:serviceaccount:jenkins-deployer -n apps-hypertechnologies-test  
clusterrole.rbac.authorization.k8s.io/edit added: "system:serviceaccount:jenkins-deployer"  
  
C:\TOOLS\cmd>  
λ oc adm policy add-cluster-role-to-user edit system:serviceaccount:apps-hypertechnologies-test:jenkins-deployer  
clusterrole.rbac.authorization.k8s.io/edit added: "system:serviceaccount:apps-hypertechnologies-test:jenkins-deployer"  
  
C:\TOOLS\cmd>  
λ oc create token jenkins-deployer  
ServiceAccountTokenCreated  
eyJhbGciOiJIUzI1NiIsImtpZCI6Ik9rTnkzdGF1QVl0dWU0MjF1Y2MwZDQ0b2FkRjdLM1dzZ0Jpb0M3LTQifQ.eyJhdWQiOiIsiaHR0cHM6Ly9rdWJlcmlldGVzLmRlZmF1bHouc3ZjlloSImV4cCI6MTYyZWJ0ZDQ0cWlwF0JjoXNjY2NDYyNTg4LCJpc3MiOiJodHRwciovL2t1YmVybWV0ZXMuZGVmYXVsZC5zdmMiLCJrdWJlcmlldGVzLmVlIjp7Im5hbWVzcGFjZSI6ImFwcHMtaHlwZXJ0ZWNoIm9sb2dpZXNpdGVzZCIsInNlcnZpY2hVY2hVdW50IEp7Im5hbWUiOiJqZy5raW5zLWR1cGxvekvVyIIiwidWlkIjoie2ZmMmJjc1N2EtmjNjYy00ND1lTlkvY2EtMWQ0ODcxYjAzYjE1In19LCJuVmYiOiJ0ZjY0NjY1ODgsInN1YiI6InN5c3RlbTpzXXI2ahNlYWVjb3VudDphCHBzLWh5cGVydGVjaG5vbG9naWVzLXRlc3Q6amVua2lucy1kZXBsbnllci9r.r578nlsgZyiG96oXT3FOmgWdEHUAYNiaG82YjOFb9nremx39qZnj2LjskhHdSL59ldwWvdXNlVQz6edgNCa8Q04-npj9sw1-vytkmN5IvnLfDb1IDpeZW2-5145L_2BXDEpw6ziAmuFFUSYe820SVcmMTvt15F_WO6QGTwzbSpn3t6Z60CpYd0TNjqczB-YKRoovig4hSQLCYtd67PhkdVMsP51kwI-BiucSr33b8xSo08Q3Tznax73mcCKqYtW59hx662xVZ-rHVYauRygpiCjrjhflGR9shx-pQBEG25F0EJ-qWGSSFP2ctssLqsWsd0aMDGVG3_vyszp8FAWPwZ75HWDLQMbl6kb686_8OGJpvtKx7g0t0p7weBS8fKDUZ1C8_D1Repsycqqwfblup2HY-PlmJEKYdkG8ZB9Bsm2m9jUQSxHC2y3pcW-p2G4XI4A4V8SGbxIU13YoqcqJ6N0H8y4bMyP5-mpybJcjS1XQCSc_Wf1DNhQRGCg71nU3c5QrxbyDzkW-UobSKsu9PY1zoagGIUG6DKQZD8k6osgxLt6CT5gL4hnJ2Yd308y1aEF8_sBrK8L_GqtQLwXUL5K20u-DuxjXknrcN0yG8Y25AYFOFJmDszgrTjUPa7o4yhba7nc6Vmx4s0cLamuyJ73PXb_21Yk
```

```
C:\TOOLS\cmd>  
λ |
```

- **Creating service account**
 -  oc create serviceaccount jenkins-deployer
 - This command creates a serviceaccount which will be used with openshift apis. Service account name is "jenkins-deployer"
- **Grant user to object edit privilege on project based (namespace) scope such**
 -  oc **policy add-role-to-user** **edit** **system:serviceaccount:jenkins-deployer -n apps-hypertechnologies-test**
 - **Verb** : policy add-role-to-user
 - **Grant**: edit *(A user that can modify most objects in a project but does not have the power to view or modify roles or bindings)*
 - **User**: system  serviceaccount  jenkins-deployer
 - **Project**: apps-hypertechnologies-test
- **Grant user to object edit privilege on cluster based scope such as trigger build and rollout api usage of cluster api**

- ➔ `oc adm policy add-cluster-role-to-user edit system:serviceaccount:apps-hypertechnologies-test:jenkins-jeployer`
- Verb : `add-cluster-role-to-user`
- Grant: edit
- Scope : `system` ➔ `serviceaccount` ➔ `apps-hypertechnologies-test` ➔ `jenkins-deployer`

OpenShift Local cluster is for development and testing purposes. DON'T use it for production.

Administrator

Home

Operators

Workloads

Networking

Storage

Builds

Observe

Compute

User Management

Administration

Users

Groups

ServiceAccounts

Roles

RoleBindings

Project: apps-hypertechnologies-test

ServiceAccounts > ServiceAccount details

jenkins-deployer

DetailsYAML

ServiceAccount details

Namejenkins-deployer

Namespacenamespace apps-hypertechnologies-test

LabelsNo labels

Annotations0 annotations

Created at22 Eki 2022 21:15

OwnerNo owner

Secrets

Name	Type	Size	Created
builder-dockercfg-plqxx	kubernetes.io/dockercfg	1	1 Eki 2022 12:53
builder-token-9nrx4	kubernetes.io/service-account-token	4	1 Eki 2022 12:53
default-dockercfg-ltb65	kubernetes.io/dockercfg	1	1 Eki 2022 12:53
default-token-ns2pk	kubernetes.io/service-account-token	4	1 Eki 2022 12:53
deployer-dockercfg-kk9nb	kubernetes.io/dockercfg	1	1 Eki 2022 12:53
deployer-token-vp8d6	kubernetes.io/service-account-token	4	1 Eki 2022 12:53
jenkins-deployer-dockercfg-lq4nt	kubernetes.io/dockercfg	1	22 Eki 2022 21:15
jenkins-deployer-token-crddb	kubernetes.io/service-account-token	4	22 Eki 2022 21:15

Created Service Account Administrator Panel View

For More Details;

🔗 Using RBAC to define and apply permissions | Authentication and authorization | OpenShift Container Platform 4.6

🐙 Repository: rbac-permissions-operator Go ★ 21 📄 38

🌟 If you do not have provisioned jenkins, then see [JENKINS ON OPENSIFT 4](#)

• Defining the granted user on Jenkins

- Denying the granted user on Jenkins
- Install Jenkins plugins as below:

Jenkins

Merkezi > Jenkins'i Yönet > Plugin Manager

Updates

Available plugins

Installed plugins










Advanced settings

Plugins

Q ara (CTRL+K)

İsim

Devrede

OpenShift Client Jenkins Plugin 1.0.38	
This plugin provides Jenkins pipeline DSL interactions for OpenShift. Report an issue with this plugin	  1.0.37 
OpenShift Login Plugin 1.0.29	
Allows you to log in to Jenkins via OAuth to an OpenShift installation Report an issue with this plugin	  1.0.27 
OpenShift Sync 1.0.55	
Sync your OpenShift BuildConfigs with Jenkins jobs. Report an issue with this plugin	  1.0.53 

- Add openshift client jar to Jenkins, this client will be use openshift cluster apis

→ Güvenli değil | jenkins-route-devops.apps-crc.testing/manage/configureTools/

ntrol Merkezi > Jenkins'i Yönet > Global Tool Configuration

OpenShift Client Tools

OpenShift Client Tools installations

List of OpenShift Client Tools installations on this system

Add OpenShift Client Tools

OpenShift Client Tools

Name ?

oc

☒ Install automatically ?

Extract *.zip/*.tar.gz ?

Download URL for binary archive ?

https://mirror.openshift.com/pub/openshift-v4/clients/oc/latest/linux/oc.tar.gz

Subdirectory of extracted archive ?

Gelişmiş...

Add Installer

- Go to manage Jenkins system configuration and set the information as below;

→ Güvenli değil | jenkins-route-devops.apps-crc.testing/manage/configure

ntrol Merkezi > Jenkins'i Yönet > Configure System

Cluster Configurations

OpenShift Cluster

Cluster Name ?

openshift-local

API Server URL

https://api.crc.testing:6443

Credentials ?

openshift-jenkins-sa-token (openshift-jenkins-sa-token)

+ Add

☒ Disable TLS Verify

Server Certificate Authority

Default Project

- **Define token As Secret**

- Go to manage jenkins [➡](#) Manage Credentials

Jenkins

Q ara (CTRL+K) ?

1

admin

rol Merkezi > Jenkins'i Yönet > Credentials > System > Global credentials (unrestricted) > openshift-jenkins-sa-token (openshift-jenkins-sa-token)

Update

Delete

Move

Update credentials

Scope ?

Global (Jenkins, nodes, items, all child items, etc) v

Token

.....

ID ?

openshift-jenkins-sa-token

Description ?

openshift-jenkins-sa-token

Save

🎉 **Congratulations you have created a service account on openshift cluster platform and defined the credentials on jenkins.**

+ Etiket ekle

😊 Tepki ekleyen ilk siz olun