

Create new Kubernetes service account (token)

Kubernetes **serviceaccount** is essential for our team members to access the Kubernetes Cluster remotely. It provides a credential called a "token" that is used to authorize the cluster. This page will showcase how to create a new **serviceaccount** for a new user on Kubernetes.

1. The current **serviceaccount** must have the superuser or cluster root access. Normally, if the current service account has the **clusterrole** of cluster-admin, it should have the root access.
 - a. To check cluster roles, type **:clusterroles** on K9s;
 - b. To check if the current service account has cluster-admin privilege, type **:clusterrolebindings** in k9s, then find **service-account-admins** in the default namespace. You can see if the current **serviceaccount** name is under the **Subjects** attribute.
2. If you have sufficient privilege, then you should be able to create serviceaccounts for others. Otherwise, login to the administrator on the Linux server by typing in **su - administrator** and enter the **password**. The root user on current linux machine should have the privilege (this is because the root user can access /etc/rancher/k3s/k3s.yaml, so never ever modify this file!!!).
3. To add a new **serviceaccount**, type the following in a command line interface. It should create a service account under the default namespace.

```
kubectl create serviceaccount <serviceaccount name>
```

4. To generate a token for this serviceaccount, use type the following in a command line interface. This should automatically generate a secret under the default namespace with the name <serviceaccount name>

```
kubectl apply -f - <<EOF
apiVersion: v1
kind: Secret
metadata:
  name: <serviceaccount name>
  annotations:
    kubernetes.io/service-account.name: <serviceaccount name>
type: kubernetes.io/service-account-token
EOF
```

5. Now, we have the new serviceaccount and its token created. By using this token, the user should be able to connect to our Kubernetes Clusters. To see how to connect to Kubernetes Clusters, check [How to connect to the server](#).
6. In order for the new user to have full access to the kubernetes cluster, we need to add the user to the current **clusterrolebindings**. Simply type **:clusterrolebindings** in k9s, then find **service-account-admins** in the default namespace. Press 'e' to edit the YAML file. At the end of the file, append the following under the **Subject** attribute.

```
- kind: ServiceAccount
  name: <serviceaccount name>
  namespace: default
```

7. Now the new user should be able to access all components in our Kubernetes cluster. To see how to connect to Kubernetes Clusters, check [How to connect to the server](#).