



Tenancy in AKO

Avi Technical Reference (v20.1)

Copyright © 2021

Tenancy in AKO

[view online](#)

Overview

Tenancy support in AKO allows AKO to map each Kubernetes / OpenShift cluster uniquely to a tenant in Avi. The field `ControllerSettings.tenantsPerCluster` needs to be set to `true` to enable this feature.

Enabling Tenancy in AKO

To enable Tenancy in AKO, follow the steps below:

1. [Create a Tenant](#)
2. [Create the Required Roles](#)
3. [Assign Tenants and Roles to Users](#)

Creating a Tenant

Assume that the Avi Controller admin creates a tenant billing.

To create a separate tenant for each cluster in Avi,

1. From the Avi UI, navigate to Administration > Accounts > Tenants.
2. Click on Create.
3. Enter the Name as *billing*.

The New Tenant screen is as shown below:

The screenshot shows a modal window titled "New Tenant: billing". The form fields are as follows:

- Name ***: A text input field containing the text "billing".
- Description**: A text area containing the text "AKO tenant for Billing Cluster".
- Tenant Access to Provider Service Engine**: A checked checkbox.
- Tenant VRF**: An unchecked checkbox.

At the bottom of the modal, there are two buttons: "Cancel" on the left and "Save" on the right.

4. Click on Save.

Creating Roles

Create the required roles with appropriate privileges to the ako user in the admin and the billing tenants. This can be created by POST to /api/role.

1. Create the role [ako-admin](#).
2. Create the role [ako-tenant](#).
3. Navigate to Administration > Accounts > Roles.

The roles created are displayed as shown below:

Name	Application	Profiles	Group & Script	Security	Policy	WAF	Error Page	Operations	Infrastructure	Administration	Accounts	GSLB
ako-admin	No Access	No Access	No Access	No Access	No Access	No Access	No Access	No Access	Assorted	No Access	Assorted	No Access
ako-tenant	Write	Write	Assorted	Assorted	No Access	Assorted	No Access	No Access	Assorted	No Access	No Access	Write

Assigning Tenants

Create users and assign tenants as required.

To create users,

1. Navigate to Administration > Accounts > Users.
2. Click on Create.
3. Enter the User Information as required.
4. In the Tenant & Role section, select the Tenant and the Role.
5. Click on Add Tenant to add another Tenant and the Role.
6. Select the Default Tenant.

Tenant & Role

ROLES FOR ALL TENANTS

+ Add Role

INDIVIDUAL TENANTS AND ROLE

Tenant* admin Role* ako-admin

Tenant* billing Role* ako-tenant

+ Add Tenant

Default Tenant* billing

Save

7. Click on Save.

In AKO, configure the following

- `ControllerSettings.tenantsPerCluster` to **True** and `ControllerSettings.tenantName` to the tenant created above.
- `avicredentials.username` and `avicredentials.password` to the user credentials created above.

Note: In the `NodePort` mode of AKO (when `L7Settings.serviceType` is set to `NodePort`), `VRFCContext` permissions are not required in admin tenant in the Controller.

Document Revision History

Date	Change Summary
December 18, 2020	Published the article for Tenancy support in AKO