Creating tenants, domains, and users in a Progress OpenEdge multi-tenant database

In a multi-tenant database, a tenant is a group of users that has secure access to their own tables as well as tables that it shares with other tenants. When you create a tenant, you create table and index partitions in a multi-tenant database. Domains are used to authenticate which tenant data a user has access to. Each tenant user must be associated with a domain. A combination of the username, @, and domain name forms a unique user ID. Let's look at how to create tenants, domains, and users.

Suppose we have an OpenEdge database, mttenantdb, that is enabled for multi-tenancy. Let's create a regular tenant with the name tenant1. From the Database Administration Console, we click **Database Administration > Tenant**. The Edit Tenant page appears.

We type **tenant1** as the tenant name.

We retain **Regular** as the tenant type.

We keep the **Enable data access** option selected.

For the Database connection field, we click the **Search** icon and then select **mttenantdb** as the database connection name.

For the Default data area field, we click the **Search** icon and then select **T001_data** as the storage area name from the Area Selection dialog box.

For the Default index area field, we select **T001_idx**.

For the Default LOB area field, we select **T001_data**.

Then, for the object allocation rule, we select **Set new objects to delay space allocation**. We use this option because we want the flexibility to later assign partitions of new objects to specific storage areas.

We keep the **Do not use template** option selected because we do not have a template with which to create tenants.

We click **Create tenant**. The tenant is created.

Next, we create a domain, tenant1, for the tenant. Before you can create a domain, you have to ensure that there is a configured authentication system. The authentication system may be built in or external, such as LDAP. In this video, we will use a built-in authentication system. We navigate to the mttenantdb database connection details page and click **View tenants**.

From the list of available tenants, we click **tenant1** to which we will add a domain.

Then, we click **Edit tenant**. The General, Partitions, Groups, Users, and Domains tabs appear.

We click **Domains**.

Then, we click **New** on the toolbar to create a new domain.

In the Domain name field, we type **tenant1**.

In the Authentication system field, we select **_oeusertable** from the drop-down list. This is a built-in OpenEdge authentication system.

In the Access code field, we type an access code for the domain.

In the Confirm access code field, we retype the access code.

We keep the **Enabled** check box selected.

Then, we click **Commit** on the toolbar to create the domain. The domain is created.

Finally, we create a user for the domain. Because we are using a built-in authentication system, and not an external system such as LDAP, we have to manually create users. We click **Users**.

Then, we click **New** on the toolbar.

In the User name field, we type **user1**.

In the Domain name field, we click the **Search** icon and select **tenant1** from the Domain Selection dialog box.

In the Password field, we type a password for the user.

In the Confirm password field, we retype the password.

Finally, we click **Commit** on the toolbar to create the user. The user is created. With this, we have successfully created a tenant, a domain for the tenant, and a user for the domain in our multi-tenant database. In the next video, we will show you how to load data definitions and table contents for a tenant into an OpenEdge multi-tenant database.

To learn more about administering an OpenEdge multi-tenant database, take the *Progress OpenEdge Multi-Tenant Database Administration* course.

To learn more about multi-tenant database application development, take the *Building a Progress OpenEdge Multi-Tenant Application* course.