**Oacc Authorization as Feature**

**Overview:**

In this demo we will cover all the API's exposed as services in out authorization feature. Creating new tenant, resource class, resources, role etc.

There are three parts for the oacc authorization feature implementation:

1. Oacc setup authorization implementation
2. Oacc generic authorization implementation
3. Oacc menu authorization service implementation

|  |  |
| --- | --- |
| Feature Group | authorization |
| Feature Service | authorizationservice |

**API (Oacc setup authorization implementation)**

1. [Creating new tenant](#NewTenant)
2. Creating new child tenant
3. [Creating new resource type](#NewResourceType)
4. [Creating permission for resource type](#ResourceTypePermission)
5. [Get permission of resource type](#GetResourceTypePermission)
6. [Register roles](#Roles)
7. [Register role](#Role)
8. [Creating resources](#NewResources)
9. [Creating resource](#NewResource)
10. [Get permission for user on any resource](#GetUserPermissionOnResource)

**Sample data & URL:**

First you have to create a new tenant for the setup service. All the tenant whatever we are creating will be the child domain of ‘All’ which we will create from the main method as shown earlier.

* ***Creating new Tenant***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | createTenant |
| URL | <http://localhost:9060/ecomm/json/authorization/authorizationservice/createTenant> |
| JSON Data | {"Tenant" : "all"} |
| Description | It is used to create new tenant. |

* ***Creating new child Tenant***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | createTenant |
| URL | <http://localhost:9060/ecomm/json/authorization/authorizationservice/createChildTenant> |
| JSON Data | {"Tenant" : "GetUsRoi", "Parent" : "all"} |

* ***Creating new Resource Type***

|  |  |  |
| --- | --- | --- |
| Method Type | | Post |
| Service Name | | createResourceClass |
| URL | | <http://localhost:9060/ecomm/json/authorization/authorizationservice/createResourceType> |
| JSON Data | | {"ResourceType": "Users", "Permissions":["View" ,"Edit", "Delete"]}  {"ResourceType": "Item", "Permissions":["View" ,"Edit", "Delete"]}  {"ResourceType": "Role", "Permissions":["View" ,"Edit", "Delete"]}  {"ResourceType": "Menu", "Permissions":["READ"]} |
| Description | It is used to create new resource type. | |

* ***Creating Resources***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | createResources |
| URL | <http://localhost:9080/ecomm/json/authorization/authorizationservice/createResources> |
| JSON Data | {"Resources":["Inventory" ,"Shipping", "PutAway"], "ResourceType": "Item", “Tenant” : “GetUsRoi”} |
| Description | It is used to create new resources. |

* ***Creating Resource***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | createResource |
| URL | <http://localhost:9080/ecomm/json/authorization/authorizationservice/createResource> |
| JSON Data | {"Resource": "Inbound" , "ResourceType": "Item", “Tenant” : “GetusRoi”} |
| Description | It is used to create new resource. |

* ***Register Roles***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | registerRoles |
| URL | <http://localhost:9080/ecomm/json/authorization/authorizationservice/registerRoles> |
| JSON Data | {"Roles":["Admin", "Manager"], "Tenant": "GetUsRoi"} |
| Description | It is used to register list of roles which will be present under ‘Role’ resource type. |

* ***Register Role***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | registerRole |
| URL | <http://localhost:9080/ecomm/json/authorization/authorizationservice/registerRole> |
| JSON Data | {"Role": "Developer", "Tenant": "GetUsRoi"} |
| Description | It is used to register new role which will be present under ‘Role’ resource type. |

* ***Creating permission for resource type***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | createResourceTypePermission |
| URL | <http://localhost:9080/ecomm/json/authorization/authorizationservice/createResourceTypePermission> |
| JSON Data | {"ResourceType": "Item", "Permissions":["Fetch", "Write"]} |
| Description | It is used to create new permission for resource type. |

* ***Get permission for user on any specific resource***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | getPermissionForUser |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/getPermissionForUser?User=John&ResourceName=Putaway>&Tenant=GetUsRoi  <http://localhost:9060/ecomm/rest/authorization/authorizationservice/getPermissionForUser?User=John&ResourceName=Shipping&Tenant=GetUsRoi> |
| Description | It is used to get permission for user on a specific resource. |
| JSON Data | {"User": "Jhon", "ResourceNmae":”Putway”, “Tenant” : “GetusRoi”} |
|  |  |

* ***Get permission for resource type***

|  |  |
| --- | --- |
| Method Type | Get |
| Service Name | getResourceTypePermission |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/getResourceTypePermission?ResourceType=Users> |
| Description | It is used to get permission for resource type. |

**API (Oacc generic authorization implementation)**

1. [Register new users](#NewUsers)
2. [Register new user](#NewUser)
3. [Grant permission for user on resource](#GrantPermissionUserOnResource)
4. [Grant permission for role on resource](#GrantPermissionRoleOnResource)
5. [Associate role to user](#AssociateRole)
6. [Get all accessible resource for user](#GetAllResourceForUser)
7. [Get all accessible resource for role](#GetAllResourceForRole)
8. [Assert permission for the user on resource](#AssertUserResourcePermission)
9. [Assert permission for the role on resource](#AssertRoleResourcePermission)

**Sample data & URL:**

* ***Register new Users***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | registerUsers |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/registerUsers> |
| JSON Data | {"Users" : ["John:password1", "Mark:password2"], "PasswordEnabled": "False", "Tenant" : "GetUsRoi"} |
| Description | It is used to register multiple users which will be present under ‘USERS’ resource type. |

* ***Register new User***

|  |  |  |
| --- | --- | --- |
| Method Type | | Post |
| Service Name | | registerUser |
| URL | | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/registerUser> |
| JSON Data | {"User": "Tom", "PasswordEnabled": "False", "Password": "abc", "Tenant": "GetUsRoi"} | |
| Description | | It is used to register new user which will be present under ‘USERS’ resource class. |

* ***Grant permissions for user on resource***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | grantPermissionForUser |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/grantPermissionForUser> |
| JSON data | {"TENANT": "GetUsRoi", "Permissions":["View","Edit"],"User":"John","Resource":"Inventory"}  {"TENANT": "GetUsRoi", "Permissions":["View"], "User": "John", "Resource": "Putaway"}  {"TENANT": "GetUsRoi", "Permissions":["View","Edit","Delete"],"User":"John","Resource":"Shipping"}  {"TENANT": "GetUsRoi", "Permissions":["READ"],"User": "John", "Resource": "OutBound"}  {"TENANT": "GetUsRoi", "Permissions":["READ"], "User": "John", "Resource": "Printer"} |
| Description | It is used to create new permission for resources. |

* ***Associate role to user***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | associateRoleToUser |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/associateRoleToUser> |
| JSON data | {"User": "John", "Role": "Admin", "TENANT": "GetUsRoi"} |
| Description | It is used to inherit role to user. |

* ***Grant permissions for role on resource***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | grantPermissionForRole |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/grantPermissionForRole> |
| JSON data | {"TENANT": "GetUsRoi", "Permission": "View", "Role": "Admin", "Resource": "Inventory"}  {"TENANT": "GetUsRoi", "Permission": "View", "Role": "Admin", "Resource": "Inbound"}  {"TENANT": "GetUsRoi", "Permission": "View", "Role": "Admin", "Resource": "Putaway"}  {"TENANT": "GetUsRoi", "Permission": "Delete", "Role": "Admin", "Resource": "Shipping"} |
| Description | It is used to create new permission for resources. |

* ***Get all resources for user on any specific resource type***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | getAllUserAccessibleResource |
| URL | http://localhost:9060/ecomm/rest/authorization/authorizationservice/getAllUserAccessibleResource |
| Description | It is used to get all resources for a user on a specific resource type. |
| JSON DATA | {“User” : “John” ,”ResourceType”: “Item”, “Permissions”:[“View”,”Delete”],”Tenant”:”GetUsRoi”} |

* ***Get all resources for specific role on any specific resource type***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | getAllRoleAccessibleResource |
| URL | http://localhost:9060/ecomm/rest/authorization/authorizationservice/getAllRoleAccessibleResource |
| Description | It is used to get all resources for role on a specific resource type. |
| JSON Data | {“Role” :”Admin”, ”ResourceType” :”Item”, “Permissions” :[“view”],”Tenant: ”GetUsRoi”} |

* ***To check that user is having permission on any specific resource or not***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | hasUserPermission |
| URL | http://localhost:9060/ecomm/rest/authorization/authorizationservice/hasUserPermission |
| Description | It is used to check that if a particular user is having permission on specific resource or not. |
| JSON Data | {“User”:”John”, “Resource” : “Item”, “Permission” : “View”, “Tenant”:”GetUsRoi”} |

* ***To check that particular role is having permission on any specific resource or not***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | hasRolePermission |
| URL | http://localhost:9060/ecomm/rest/authorization/authorizationservice/hasRolePermission |
| Description | It is used to check that if a particular role is having permission on specific resource or not. |
| JSON Data | {“Role”: ”Admin”, “Resource”: ”Inventory”, “Permission” :”View”, “Tenant” :”GetUsRoi” |

**API (Oacc menu authorization service implementation)**

1. [Creating menu items](#MenuItems)
2. [Assert permission for the user on menu item](#AssertUserMenuItemsPermission)
3. [Get all accessible menu items for user](#GetAllMenuItemsForUser)
4. [Get all accessible menu items for role](#GetAllMenuItemsForRole)

* ***Creating Menu Items***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | createMenuItems |
| URL | <http://localhost:9080/ecomm/json/authorization/authorizationservice/createMenuItems> |
| JSON Data | {"MenuItems":["OutBound" ,"Printer"] ,"Tenant": "GetUsRoi"} |
| Description | It is used to create new menu items which will be present under ‘MENU’ resource type. |

* ***To check that user is having permission on menu item or not***

|  |  |
| --- | --- |
| Method Type | Post |
| Service Name | hasMenuItemUserPermission |
| URL | http://localhost:9060/ecomm/rest/authorization/authorizationservice/hasMenuItemUserPermission |
| Description | It is used to check that if a particular user is having permission on menu item or not. |
| JSON Data | {“User” : “John”, “MenuItem” : “Outbound”, “Permission”: ”Read”, “Tenant” : “GetUsRoi” |

* ***Get all menu items for user***

|  |  |
| --- | --- |
| Method Type | Get |
| Service Name | getAllAccessibleMenuItemsForUser |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/getAllAccessibleMenuItemsForUser?User=John&Tenant=GetUsRoi> |
| Description | It is used to get all menu items for a user. |

* ***Get all menu items for role***

|  |  |
| --- | --- |
| Method Type | Get |
| Service Name | getAllAccessibleMenuItemsForRole |
| URL | <http://localhost:9060/ecomm/rest/authorization/authorizationservice/getAllAccessibleMenuItemsForRole?Role=Admin&Tenant=GetUsRoi> |
| Description | It is used to get all menu items for a user. |