

- Use the source code from [here](#). Use Maven 3 and Java 7 to build the source code and copy  
custom-identity-mgt/components/custom-identity-mgt/target/custom-identity-mgt-1.0.0.jar  
to <CARBON\_HOME>/repository/components/dropins/ directory.
- Add secondary userstore with domain name ACME.COM and create two roles with  
names admin and travelocity.com

## UC1: Add external users through JIT

- Add workflow definition as described [here](#)
- Add workflow engagement like below.

[Home](#) > [Manage](#) > [Workflow Engagements](#) > [Add](#)

### Add New Workflow Engagement

| Association Details |  |
|---------------------|--|
| Association Name    | <input type="text" value="Update-Roles"/>          |
| Operation Category  | <input type="text" value="User Store Operations"/> |
| Operation Name      | <input type="text" value="Update Roles of User"/>  |

| Workflow Details  |  |
|---|--|
| Select workflow   | <input type="text" value="User-Role"/> |
| <input checked="" type="radio"/> Apply to all requests<br><input type="radio"/> Apply if,<br><input type="radio"/> Advanced |  |

- Add facebook Identity provider as described [here](#) or any other identity provider as described [here](#)
- Add service provider with name travelocity.com. Enable authorization and Enable Assert identity using mapped local subject identifier

## Service Providers

### Basic Information

Service Provider Name: \*

travelocity.com

? A unique name for the service provider

Description:

? A meaningful description about the service provider

SaaS Application


☐ ? Applications are by default restricted for usage by users of the service provider's tenant. If this applica

### Claim Configuration

### Role/Permission Configuration

### Inbound Authentication Configuration

#### SAML2 Web SSO Configuration

| Issuer          | Attribute Consuming Service Index | Actions   |
|-----------------|-----------------------------------|---|
| travelocity.com |                                   |  Edit  Delete |

#### OAuth/OpenID Connect Configuration

#### OpenID Configuration

#### WS-Federation (Passive) Configuration

#### WS-Trust Security Token Service Configuration

#### Kerberos KDC

### Local & Outbound Authentication Configuration

Authentication Type: \*

☐ Default

☐ Local Authentication

☒ Federated Authentication

[Advanced Configuration](#)

totp ▼

Facebook ▼

☒ Assert identity using mapped local subject identifier

☐ Always send back the authenticated list of identity providers

☐ Use tenant domain in local subject identifier

☐ Use user store domain in local subject identifier

☒ Enable Authorization

- Go to Entitlement -> PAP -> Policy Administration -> Add New Entitlement Policy -> Write Policy in XML to add new XACML policy. Use below XACML policy.

```
<Policy xmlns="urn:oasis:names:tc:xacml:3.0:core:schema:wd-17"
```

```
PolicyId="travelocity.com-auth-by-application-role-policy"
```

```
RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"
```

```
Version="1.0">
```

*<Description>This is a reference policy for service provider authorization by role. This will only allow users in ACME.COM/travelocity.com role to login to travelocity.com SP and anyone else will be denied.</Description>*

*<Target>*

*<AnyOf>*

*<AllOf>*

*<Match MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">*

*<AttributeValue*

*DataType="http://www.w3.org/2001/XMLSchema#string">travelocity.com</AttributeValue>*

*<AttributeDesignator AttributeId="http://wso2.org/identity/sp/sp-name"*

*Category="http://wso2.org/identity/sp" DataType="http://www.w3.org/2001/XMLSchema#string"*

*MustBePresent="true"></AttributeDesignator>*

*</Match>*

*<Match MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">*

*<AttributeValue*

*DataType="http://www.w3.org/2001/XMLSchema#string">authenticate</AttributeValue>*

*<AttributeDesignator AttributeId="http://wso2.org/identity/identity-action/action-name"*

*Category="http://wso2.org/identity/identity-action"*

*DataType="http://www.w3.org/2001/XMLSchema#string"*

*MustBePresent="true"></AttributeDesignator>*

*</Match>*

*</AllOf>*

*</AnyOf>*

*</Target>*

*<Rule Effect="Permit" RuleId="allow-if-in-admin">*

*<Condition>*

*<Apply FunctionId="urn:oasis:names:tc:xacml:1.0:function:string-is-in">*

*<AttributeValue*

*DataType="http://www.w3.org/2001/XMLSchema#string">ACME.COM/travelocity.com</Attribute  
Value>*

*<AttributeDesignator AttributeId="http://wso2.org/claims/role"*

*Category="urn:oasis:names:tc:xacml:1.0:subject-category:access-subject"*

```

DataType="http://www.w3.org/2001/XMLSchema#string"
MustBePresent="true"></AttributeDesignator>
    </Apply>
</Condition>
</Rule>
<Rule Effect="Deny" RuleId="deny-all-others"></Rule>
</Policy>

```

- Publish the created policy to PDP
- Change *StepBasedSequenceHandler* in  
`<CARBON_HOME>/repository/conf/identity/application-authentication.xml` to  
`com.custom.listener.handler.provisioning.ExtendedStepBasedSequenceHandler` and  
`ProvisioningHandler` to  
`com.custom.listener.handler.provisioning.ExtendedProvisioningHandler`

## UC2: Restricted ability to change user details

- Add below XACML policy as described above

```

<Policy xmlns="urn:oasis:names:tc:xacml:3.0:core:schema:wd-17"
PolicyId="update-claims-auth-by-role-policy"
RuleCombiningAlgId="urn:oasis:names:tc:xacml:1.0:rule-combining-algorithm:first-applicable"
Version="1.0">
    <Description>This is a reference policy for authorization to update user profile by role. This
will only allow users in admin role of the userstore to update the user profiles in that particular
user store and anyone else will be denied.</Description>
    <Target>
        <AnyOf>
            <AllOf>
                <Match MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">
                    <AttributeValue
DataType="http://www.w3.org/2001/XMLSchema#string">ACME.COM</AttributeValue>
                    <AttributeDesignator AttributeId="http://wso2.org/identity/user/user-store-domain"
Category="http://wso2.org/identity/user"

```

```

    DataType="http://www.w3.org/2001/XMLSchema#string"
    MustBePresent="true"></AttributeDesignator>
        </Match>
        <Match MatchId="urn:oasis:names:tc:xacml:1.0:function:string-equal">
            <AttributeValue
                DataType="http://www.w3.org/2001/XMLSchema#string">update-claims</AttributeValue>
                <AttributeDesignator AttributeId="http://wso2.org/identity/identity-action/action-name"
                    Category="http://wso2.org/identity/identity-action"
                    DataType="http://www.w3.org/2001/XMLSchema#string"
                    MustBePresent="true"></AttributeDesignator>
                    </Match>
                </AllOf>
            </AnyOf>
        </Target>
    <Rule Effect="Permit" RuleId="allow-if-in-admin">
        <Condition>
            <Apply FunctionId="urn:oasis:names:tc:xacml:1.0:function:string-is-in">
                <AttributeValue
                    DataType="http://www.w3.org/2001/XMLSchema#string">ACME.COM/admin</AttributeValue>
                    <AttributeDesignator AttributeId="http://wso2.org/claims/role"
                        Category="urn:oasis:names:tc:xacml:1.0:subject-category:access-subject"
                        DataType="http://www.w3.org/2001/XMLSchema#string"
                        MustBePresent="true"></AttributeDesignator>
                        </Apply>
                    </Condition>
                </Rule>
            <Rule Effect="Deny" RuleId="deny-all-others"></Rule>
        </Policy>

```

## UC4: Audit Trail

- To disable the default user operation audit logger add below configuration inside <EventListeners> to <CARBON\_HOME>/repository/conf/identity/identity.xml

```
<EventListener type="org.wso2.carbon.user.core.listener.UserOperationEventListener"
    name="org.wso2.carbon.user.mgt.listeners.UserMgtAuditLogger"
    orderId="9" enable="false"/>
```

## UC5: Show / Hide claim details

- Edit the claim needed to hide in <http://wso2.org/claims> dialect and add mapped attribute as NA for ACME.COM user store domain.

⬅ **Mobile**
Edit Delete

| Claim URI              | http://wso2.org/claims/mobile  |                        |                  |         |        |          |    |  |
|------------------------|--|------------------------|------------------|---------|--------|----------|----|--|
| Description            | Mobile   |                        |                  |         |        |          |    |  |
| Mapped Attribute (s)   | <table> <thead> <tr> <th>User Store Domain Name</th><th>Mapped Attribute</th></tr> </thead> <tbody> <tr> <td>PRIMARY</td><td>mobile</td></tr> <tr> <td>ACME.COM</td><td>NA</td></tr> </tbody> </table> | User Store Domain Name | Mapped Attribute | PRIMARY | mobile | ACME.COM | NA |  |
| User Store Domain Name | Mapped Attribute   |                        |                  |         |        |          |    |  |
| PRIMARY                | mobile   |                        |                  |         |        |          |    |  |
| ACME.COM               | NA   |                        |                  |         |        |          |    |  |
| Regular Expression     |  |                        |                  |         |        |          |    |  |
| Display Order          | 8  |                        |                  |         |        |          |    |  |
| Supported by Default   | true   |                        |                  |         |        |          |    |  |
| Required               | false  |                        |                  |         |        |          |    |  |
| Read only              | false  |                        |                  |         |        |          |    |  |