

# How to migrate LOCAL custom domains and security to EEM?

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Use case:

Your current LOCAL configuration is as below:

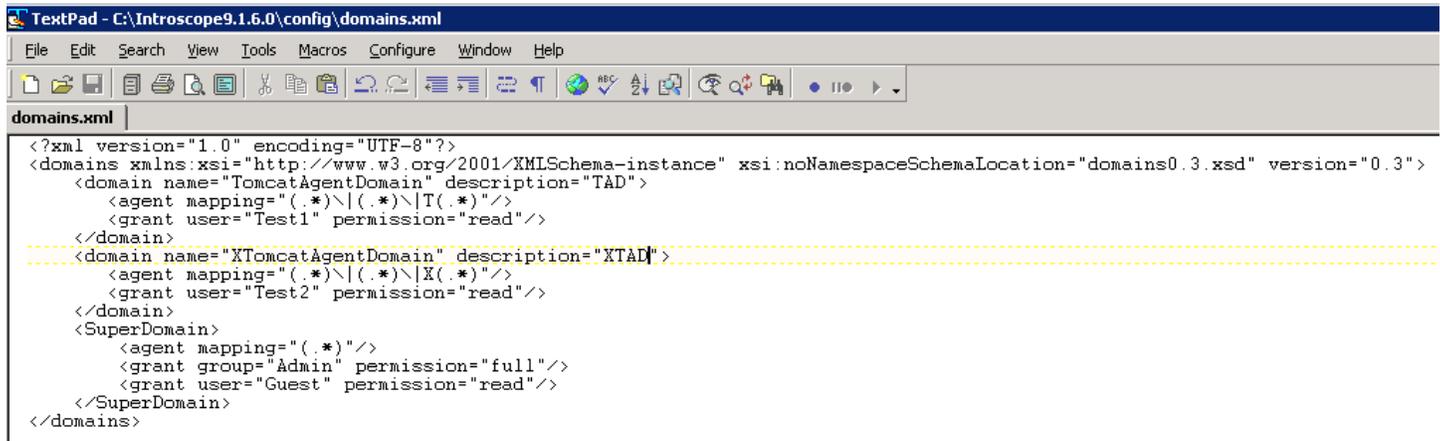
2 dummy agents: "Tomcat Agent" and "XTomcat Agent"

Permissions:

-Tomcat Agent belongs to TomcatAgentDomain and only Test1 has access to it.

-XTomcat Agent belongs to XTomcatAgentDomain and only Test2 has access to it.

You need to migrate this configuration to EEM.



```
<?xml version="1.0" encoding="UTF-8"?>
<domains xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="domains0.3.xsd" version="0.3">
  <domain name="TomcatAgentDomain" description="TAD">
    <agent mapping="(.*)\|(.*)\|T(.*)" />
    <grant user="Test1" permission="read" />
  </domain>
  <domain name="XTomcatAgentDomain" description="XTAD">
    <agent mapping="(.*)\|(.*)\|X(.*)" />
    <grant user="Test2" permission="read" />
  </domain>
  <SuperDomain>
    <agent mapping="(.*)" />
    <grant group="Admin" permission="full" />
    <grant user="Guest" permission="read" />
  </SuperDomain>
</domains>
```

## Step 1: Install EEM and load APM application

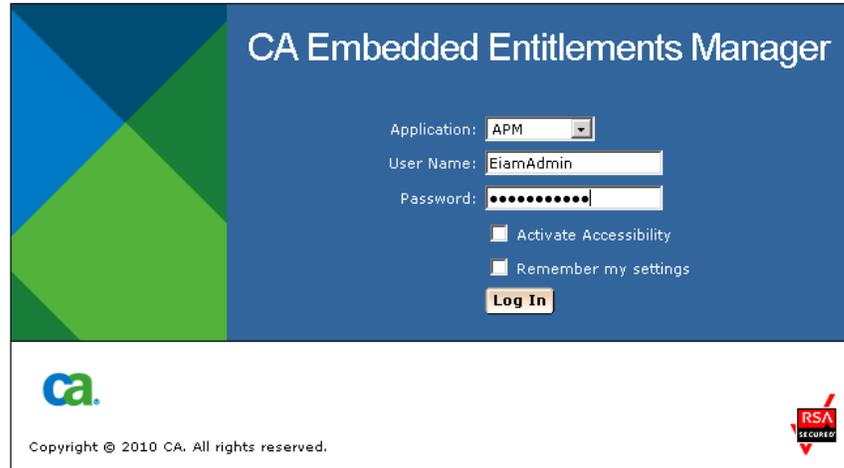
see:

[How to configure APM Authentication with EEM local authentication.pdf](#)

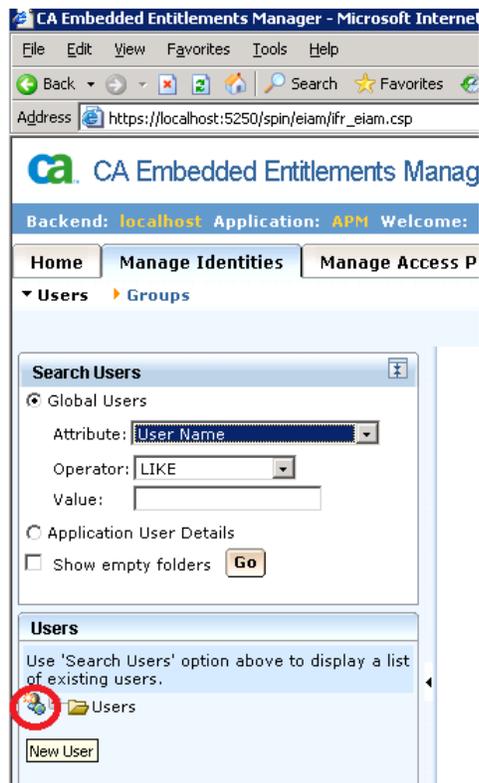
or

[How to configure APM authentication with EEM configured with LDAP.pdf](#)

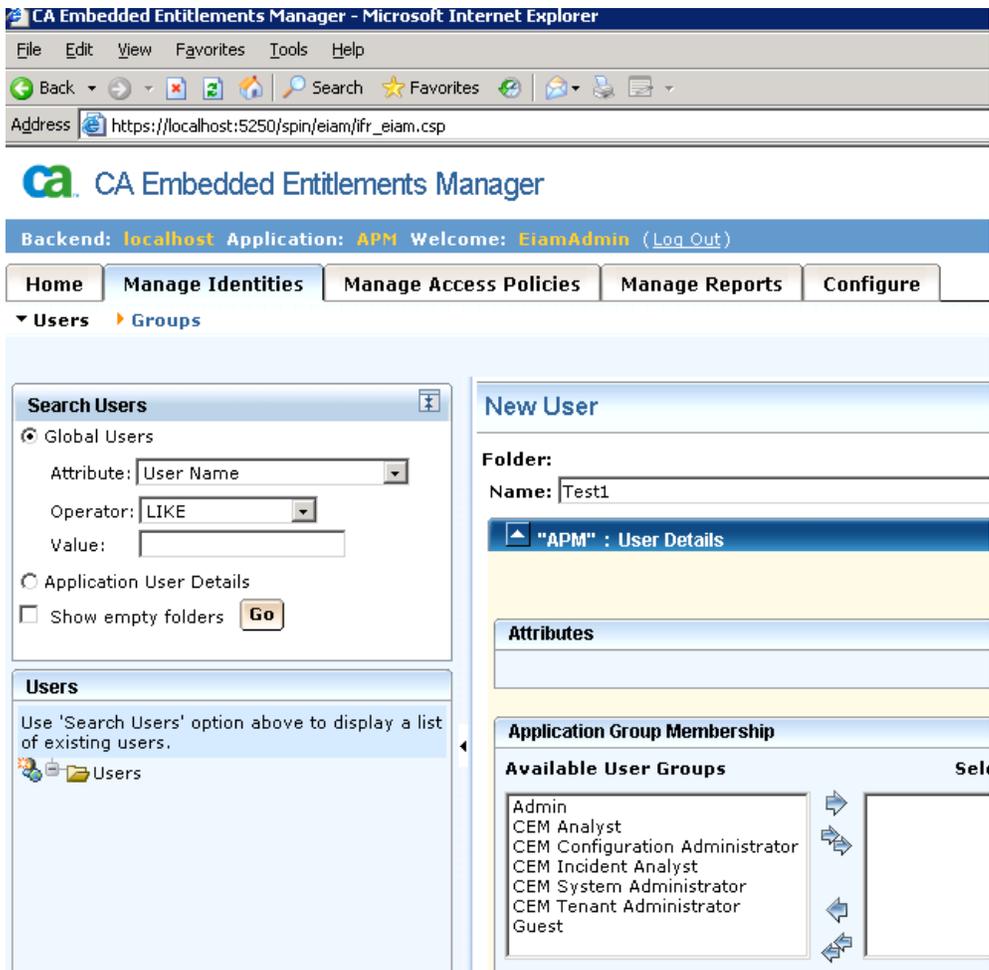
## Step 2: Connect to EEM



### Step 3: Create Test1 and Test2 users

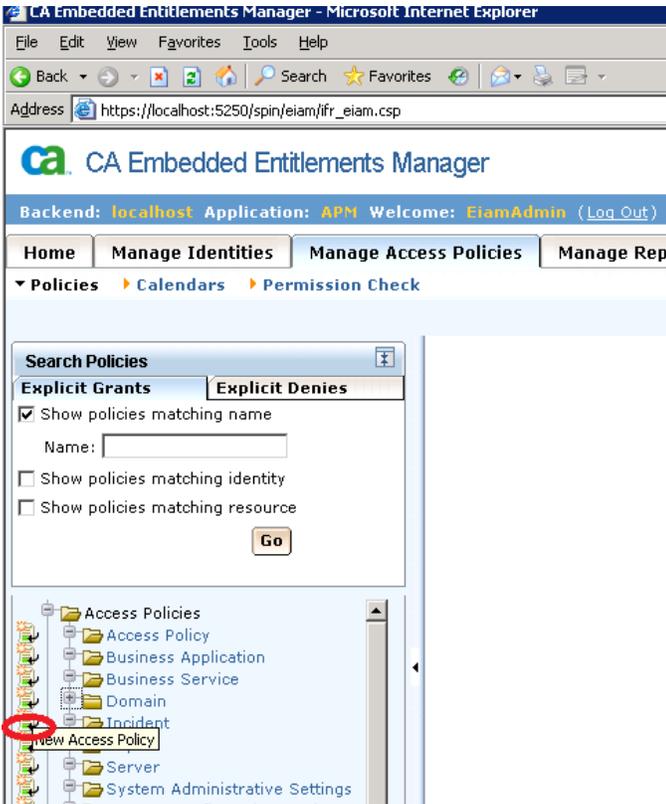


Click Manage Identities > Click above icon to create a new user

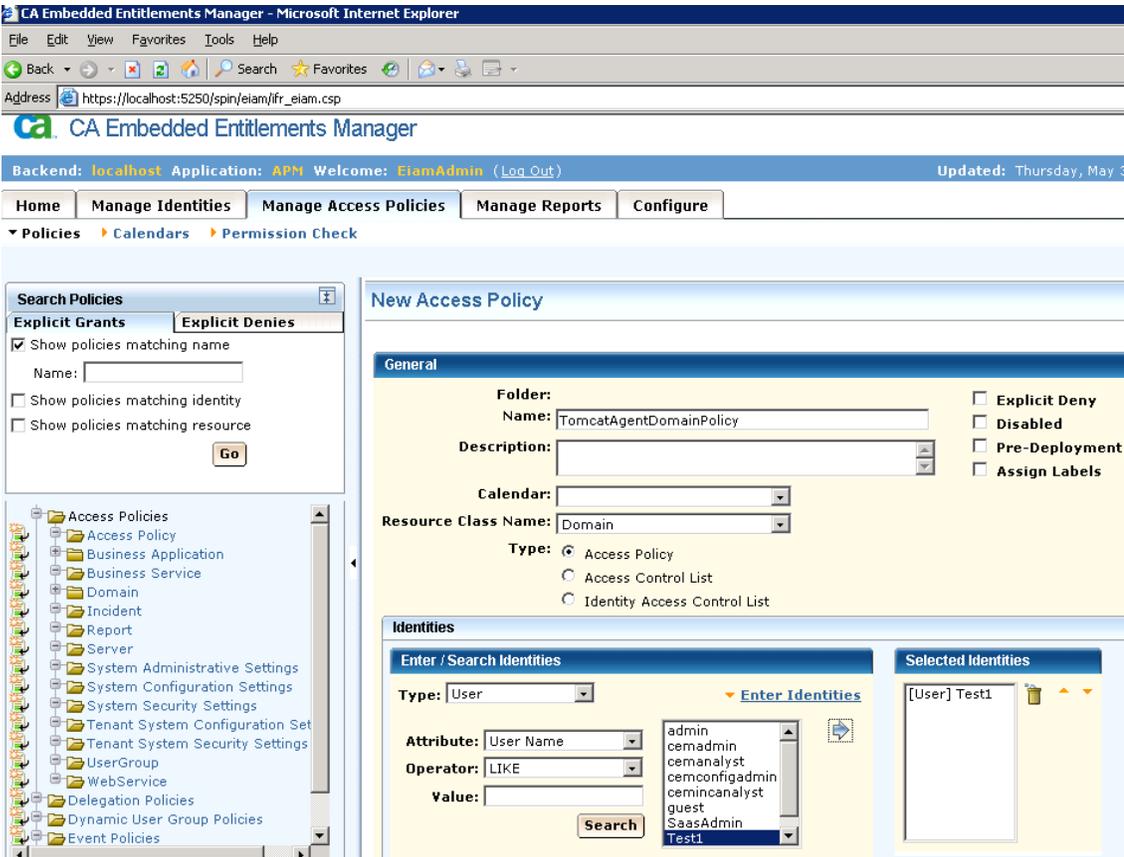


Create Test1 user, you need to enter details, at the end there is a field to enter the password. Click Save.  
Do the same for Test2

**Step4:** Create your Custom Domains

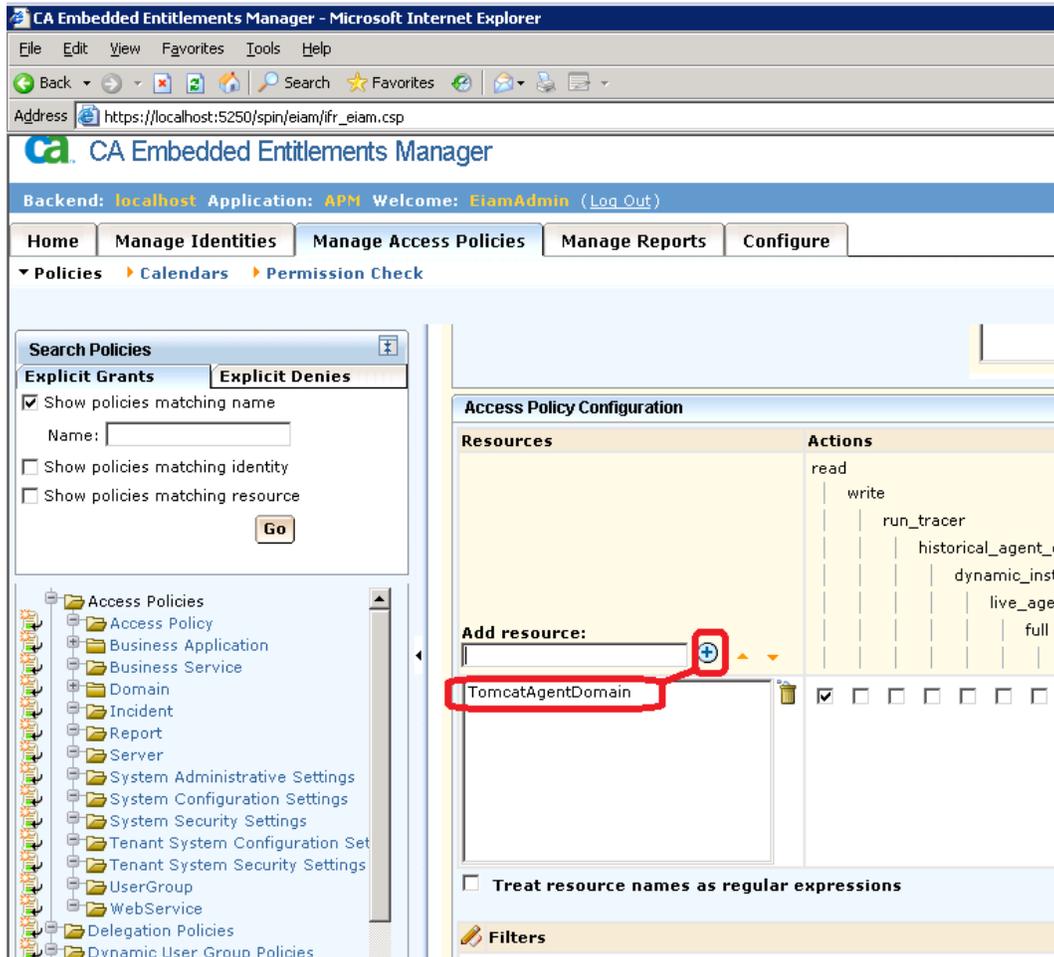


Click Manage Access Policies Tab, then click the above icon to create a Domain policy



For TomcatAgentDomain, I call the policy TomcatAgentDomainPolicy,  
I click “Enter Identities”, “Search”, select “Test1” user and click the arrow to confirm the selection.

**NOTE:** Although, you can enter the username manually, it is better to select the user from the list above, this to make sure you are using a valid user.



Then, I give permissions, in my case it is “read”  
I enter TomcatAgentDomain as a resource, click the “+” in order to confirm and add the resource.  
Click “Save”

**NOTE:** Make sure the resource name matches the domain name in the domains.xml.

I follow the same process to create my 2<sup>nd</sup> domain.

Click the Domain node in order to review your definitions:

CA Embedded Entitlements Manager - Microsoft Internet Explorer

Address: https://localhost:5250/spin/eiam/ifr\_eiam.csp

Backend: localhost Application: APM Welcome: EtamAdmin (Log Out) Updated: Thursday, May 30, 2013 10:37:5

Home Manage Identities Manage Access Policies Manage Reports Configure Help

▼ Policies ▶ Calendars ▶ Permission Check

Search Policies

Explicit Grants Explicit Denies

Show policies matching name

Name:

Show policies matching identity

Show policies matching resource

Go

Access Policies

- Access Policy
- Business Application
- Business Service
- Domain**
- Incident
- Report
- Server

Policy Table

Access Policies - "Domain"

Name/Description	ResourceClassName	Options	Identities	Actions	Resources	Filters
<a href="#">Domain Admin</a> Admin group has full permission for all domains	Domain	Explicit Grant	ug:Admin	full	SuperDomain	
<a href="#">Domain Guest</a> Guest group has read permission for all domains	Domain	Explicit Grant	ug:Guest	read	SuperDomain	
<a href="#">TomcatAgentDomainPolicy</a>	Domain	Explicit Grant	Test1	read	TomcatAgentDomain	
<a href="#">XTomcatAgentDomainPolicy</a>	Domain	Explicit Grant	Test2	read	XTomcatAgentDomain	

**Step 5:** I safely remove all permission definitions from the domains.xml.

This is the only section that cannot be migrated to EEM, so this part will remain in your domains.xml

TextPad - C:\Introscope9.1.6.0\config\domains.xml

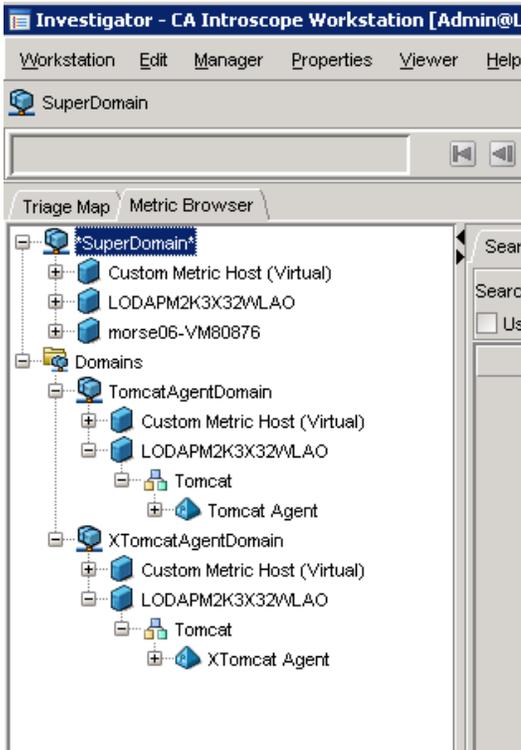
```

domains.xml
<?xml version="1.0" encoding="UTF-8"?>
<domains xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="domains0.3.xsd" version="0.3">
  <domain name="TomcatAgentDomain" description="TAD">
    <agent mapping="(.*)\|(.*)\|T(.*)" />
  </domain>
  <domain name="XTomcatAgentDomain" description="XTAD">
    <agent mapping="(.*)\|(.*)\|X(.*)" />
  </domain>
  <SuperDomain>
    <agent mapping="(.*)" />
  </SuperDomain>
</domains>

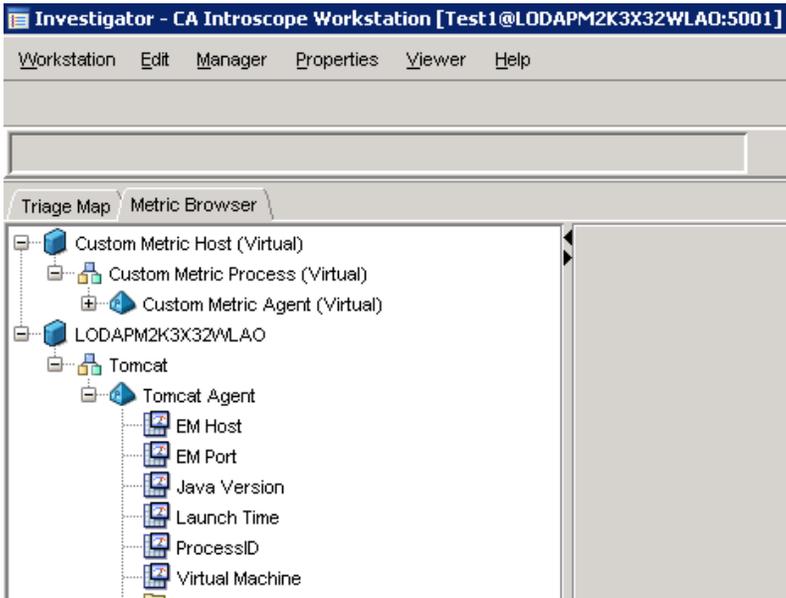
```

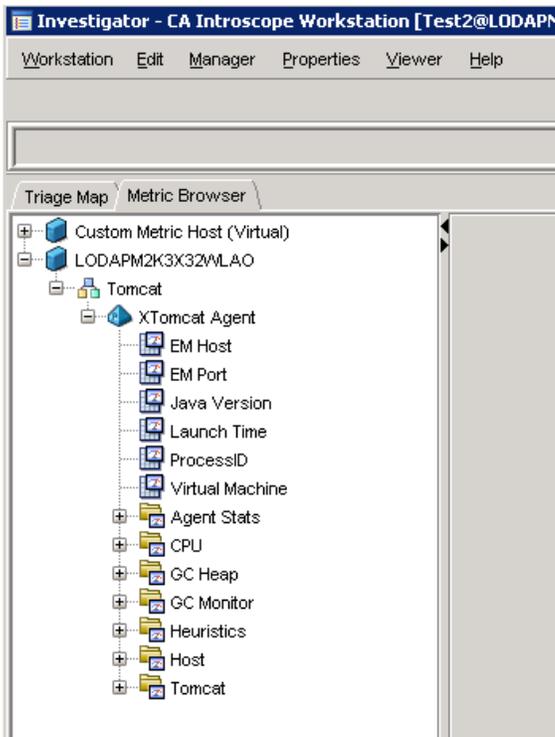
**Step 6:** Test permissions.

connect as Admin, I can see both Domains as expected



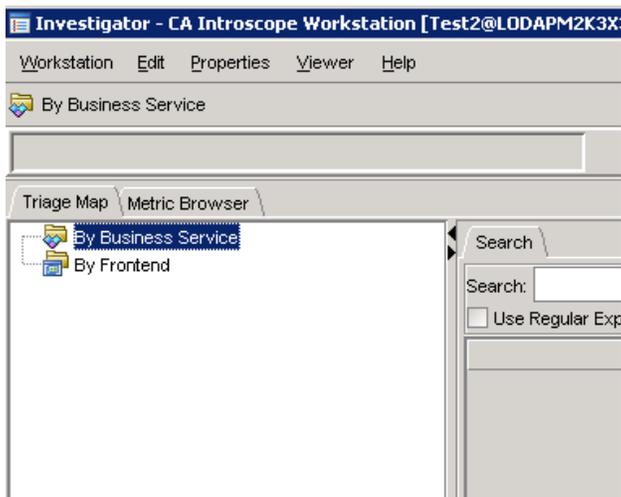
When connecting as Test1 can only see Tomcat and as Test2 can only see XTomcat -> CORRECT





**Step 5:** Create the Business Application in order to see Application Frontends in TriageMap

With the above settings frontends will be missing in Appmap. To fix this, you need to create a Business Application policy in EEM.



Of course, if you connect as Admin, you will be able to see all this information

Investigator - CA Introscope Workstation [Admin@LODAPM2K3X32WLA0:5001]

Workstation Edit Properties Viewer Help

By Frontend>Welcome to Tomcat

Time range: 5 Minutes Live Resolution: 15 seconds

Triage Map Metric Browser

Overview

Welcome to Tomcat:

- Average Response Time (ms) = 0.00  
Count = 0 Min = 0.00 Max = 0.00
- Concurrent Invocations = 0.00  
Count = 0 Min = 0.00 Max = 0.00
- Errors Per Interval = 0.00  
Count = 0 Min = 0.00 Max = 0.00
- Responses Per Interval = 0.00  
Count = 0 Min = 0.00 Max = 0.00
- Stall Count = 0.00  
Count = 0 Min = 0.00 Max = 0.00

May 30, 2013 11:50:15 AM EDT

Status	Agent	Host	R/T	Concurrent	Errors	Responses	Stalls
	Tomcat Agent	LODAPM2K3X32WLA0	0	0	0	0	0
	XTomcat Agent	LODAPM2K3X32WLA0	0	0	0	0	0

Go to EEM admin ui

CA Embedded Entitlements Manager - Microsoft Int...

File Edit View Favorites Tools Help

Back Forward Stop Refresh Search Favorites

Address https://localhost:5250/spin/eiam/jfr\_eiam.csp

CA Embedded Entitlements Ma

Backend: localhost Application: APM Welcome

Home Manage Identities Manage Access

Policies Calendars Permission Check

Search Policies

Explicit Grants Explicit Denies

Show policies matching name  
Name:

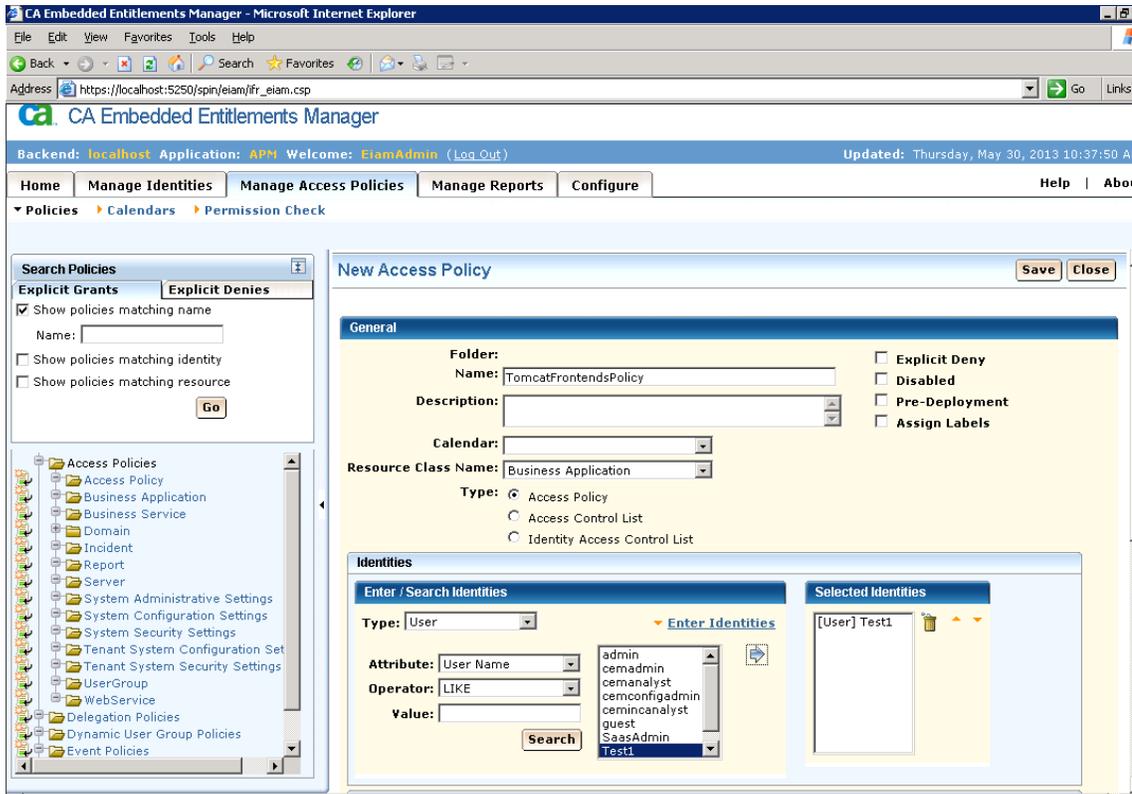
Show policies matching identity

Show policies matching resource

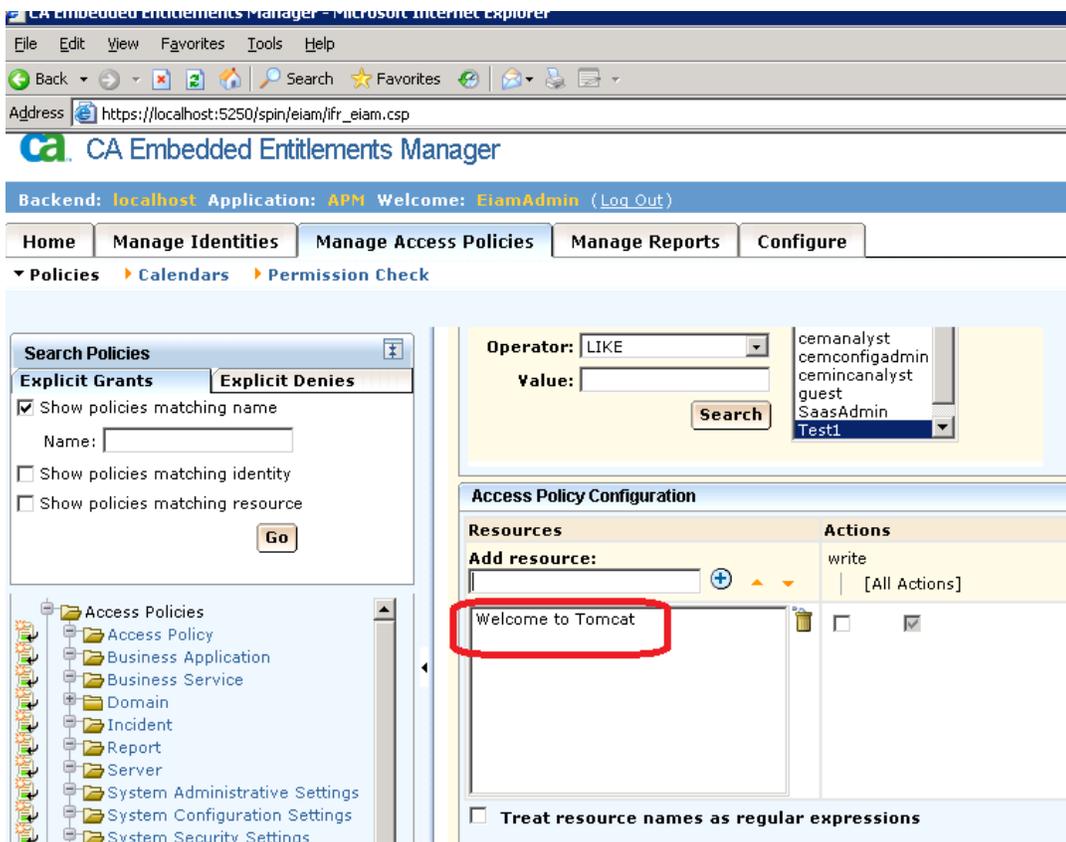
Go

- Access Policies
  - Access Policy
  - Business Application
  - Business Service
  - New Access Policy
  - Incident
  - Report
  - Server
  - System Administrative Settings
  - System Configuration Settings
  - System Security Settings
  - Tenant System Configuration Set
  - Tenant System Security Settings
  - UserGroup
  - WebService
  - Delegation Policies

Click Business Application policy icon in order to create a new BA



Enter a name, for example: TomcatFrontendsPolicy, Click Enter Identities, Search, select Test1 and click the arrow.



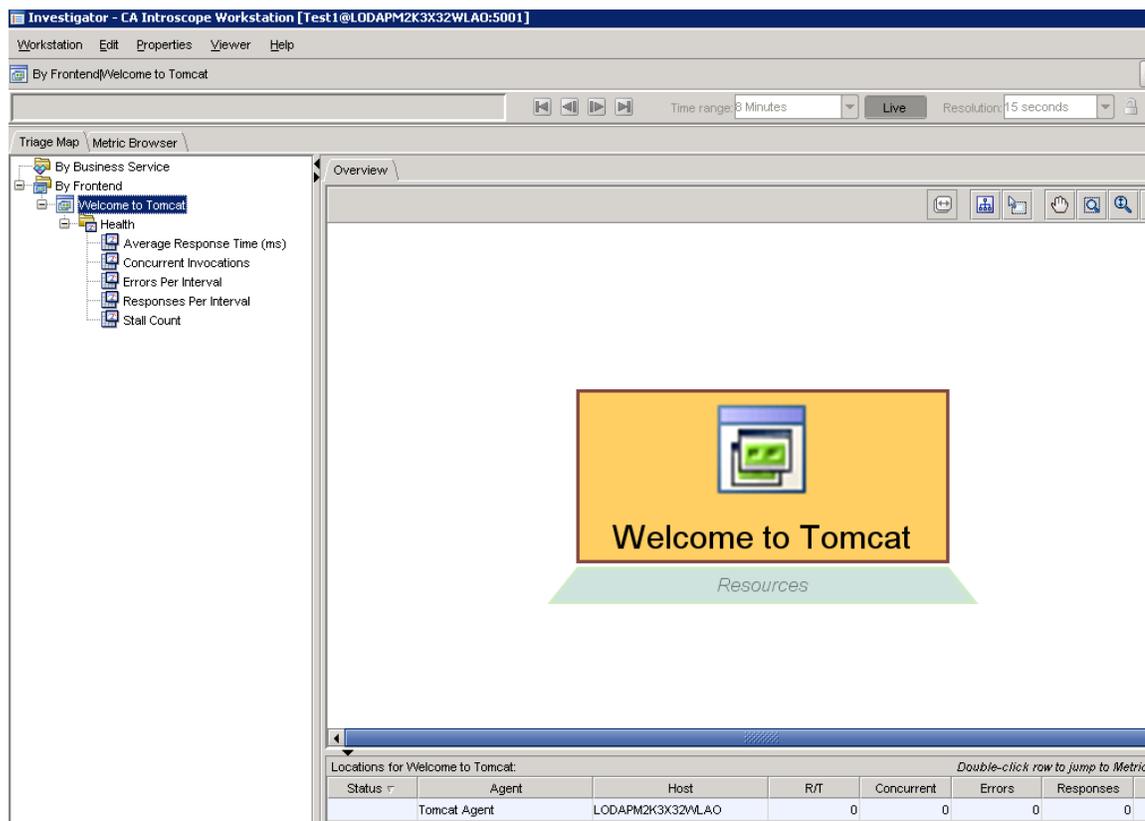
You need to enter the frontend(s) as resources inside of EEM. In my case it is “Welcome to Tomcat”  
Click “Save”

**NOTE: Make sure to enter the correct Frontend name.**

You can use regular expressions by enabling the checkbox at the end: “Treat resource names as regular expressions”

### Step 6: Test permissions

Connect as Test1, this time you will see fronted for only Tomcat Agent as below



The screenshot shows the CA Introscope Workstation interface. The title bar reads "Investigator - CA Introscope Workstation [Test1@LODAPM2K3X32WLA0:5001]". The menu bar includes "Workstation", "Edit", "Properties", "Viewer", and "Help". The main window title is "By Frontend/Welcome to Tomcat". The interface includes a "Triage Map" and "Metric Browser" on the left, and an "Overview" pane on the right. The "Overview" pane displays a "Welcome to Tomcat" resource, represented by a yellow box with a Tomcat logo and the text "Welcome to Tomcat" and "Resources". Below the overview, a table titled "Locations for Welcome to Tomcat:" shows the following data:

Status	Agent	Host	R/T	Concurrent	Errors	Responses
	Tomcat Agent	LODAPM2K3X32WLA0	0	0	0	0