How to configure APM Authentication with EEM local authentication

Sergio Morales Principal Support Engineer CA Technologies <u>Morse06@ca.com</u>

Last updated: Feb, 2011

This document covers the following 2 possible case scenarios:

CASE 1: Configuring EEM using the default safex xml scripts provided with the EM installer. It will only created the default APM user and groups, for example: Admin, see Page 5

CASE2: Configuring EEM with Introscope to use your own users, groups and policies for domains It covers a basic example where a "test" user belong to a "grouptest" group and has permission to a specific custom domain, see page 11

Step 1: Download and install EEM: APM_EEM_9060.zip

🚰 CA Embedded Entitlements Manager - I	nstallShield Wiz	ard	×
Extracting Files The contents of this package are being e	xtracted.		
Please wait while the InstallShield Wizard Embedded Entitlements Manager on your	extracts the files r computer. This ma	needed to install C ay take a few mor	A nents.
Reading contents of package		•	
InstallShield	< <u>B</u> ack	Next >	Cancel

A Embedded Entitlements Manager 🛛 🔀				
Ca.	Welcome to the InstallShield Wizard for CA Embedded Entitlements Manager			
	The InstallShield Wizard will install CA Embedded Entitlements Manager on your computer. To continue, click Next.			
	< Back [<u>Next</u> > Cancel			
C & Embedded Entitlements Ma	n ager			

LA Embedded Entitlements Manager			×
License Agreement IMPORTANT - PLEASE READ CAREFULLY!			
THIS PRODUCT MAY CONTAIN SOFTWARE PROVIDED BY THIRD P. ADDITIONAL TERMS AND CONDITIONS PRIOR TO INSTALLATION O ARE PRESENTED BELOW AFTER THE CA END USER LICENSE AGR	ARTIES WHO R)F THIS PRODU EEMENT.	EQUIRE AGREE CT. THESE ADI	MENT TO DITIONAL TERMS
Contributor has been advised of the possibility of such damages. 9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.			
END OF TERMS AND CONDITIONS	tall CA Embedde	d Entitlements Ma	
Job you accept all the terms of the preceding license agreements? To this read and accept the license agreements presented above. You must schedule to accept the agreements. Jaccept the terms in the license agreements. Job not accept the terms in the license agreements.	roll to the bottom	of the window be	anager, you must sfore you will be
	< <u>B</u> ack	<u>N</u> ext >	Cancel

CA Embedded Entitlements M	lanager	×
Choose Destination Location Select folder where Setup will	n install files.	Ca.
Setup will install CA Embedde	d Entitlements Manager in the follow	wing folder.
To install to this folder, click N another folder.	ext. To install to a different folder, o	lick Browse and select
Destination Folder		Browne
L:\\LA\SharedLomponen	S\Embedded IAM	Dīowse
nstallShield		
	<u> </u>	<u>N</u> ext > Cancel
nter the EiamAdmin passw	ord=@dmin123	
CA Embedded Entitlements M	lanager	×
Manager.	e LA Embedded Entitiements	Ca
Please specify the Eiam Admi	n password	
EiamAdmin password:	******	
Confirm password:	*******	
	1 1	
nstallShield		
	< <u>B</u> ack	Next > Cancel

CA Embedded Entitlements Ma	nager 🔀
Choose Java Home	
Select folder where Java is insta	
Please enter the location of the Browse button to locate Java H	Java Home. You may type a folder name or click the ome.
C:\Program Files\Java\jdk1.6.	0_12
	B <u>r</u> owse
InstallShield	
S <u>k</u> ip	< <u>B</u> ack <u>Next</u> Cancel
CA Embedded Entitlements Ma	nager
Ca.	CA Embedded Entitlements Manager Installation Complete
	Setup has finished installing CA Embedded Entitlements Manager on your computer.
RSA	
V	
	< Back Finish Cancel

CASE 1: Configuring EEM using the default safex xml scripts provided with the EM installer. It will only created the default APM user and groups, for example: Admin

Step 2: Registering APM applications in CA EEM, page 75

Use an administrator account Add C:\Program Files\CA\SharedComponents\iTechnology to your PATH environment variable.

Run the following command:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f
C:\Introscope9.0.6.0\examples\authentication\eem.register.app.xml



NOTE: If for some reason you need to remove the default APM users, run:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f

C:\Introscope9.0.6.0\examples\authentication\eem.unregister.app.xml

a C:\WINDUWS\system32\cmd.exe
C:\>safex.exe -h localhost -u EiamAdmin -p @dmin123 -f C:\Introscope9.0.6.0\exam ples\authentication\eem.unregister.app.xml Setting back end to "localhost"
Setting locale to "en_us"
Detected EEM Server on host: [localhost] OK: Successfully Authenticated OK: action[Attach] with ApplicationInstance label[] OK: action[UnRegister] performed on ApplicationInstance name[APM] with label[APM]
OK: Total objects Added[0] OK: Total objects Modified[0] OK: Total objects Removed[1] OK: Total objects Skipped[0] OK: Total objects Exported[0]
C:\>_

Step 3: Creating APM users in CA EEM, page 77

Run the following command: safex.exe -h localhost -u EiamAdmin -p @dmin123 -f C:\Introscope9.0.6.0\examples\authentication\eem.add.global.identities.xml



NOTE: If for some reason you need remove the default users, run:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f

C:\Introscope9.0.6.0\examples\authentication\eem.remove.global.identities.xml

C:\Vsafex.exe -h localhost -u EiamAdmin -p @dmin123 -f C:\Introscope9.0.6.0\examples\authentication\eem.remove.global.identities.xml
Setting back end to "localhost"
Setting locale to "en_us"
Detected EEM Server on host: [localhost]
OK: actionIRenovel performed on objectIGlobalUser] name[/APM/admin]
OK: actionIRenovel performed on objectIGlobalUser] name[/APM/cemanalyst]
OK: actionIRenovel performed on objectIGlobalUser] name[/APM]
OK: Total objects Modefied[0]
OK: Total objects Removed[7]
OK: Total objects Skiped[0]
OK: Total objects Exported[0]
C:\>_

Step 4: Verify application and created users and groups.

Connect to the EEM UI: <u>http://<EEM HostName>:5250/spin/eiam/eiam.csp</u>

	CA Embedded Entitlements Manager
	Application: APM User Name: EiamAdmin Password: Activate Accessibility
	Log In
Copyright © 2010 CA. All rig	hts reserved.
Application = 'APM'	

User Name = 'EiamAdmin' Password = @dmin123

CA Embedded Entitlements Manager

Backend: localhost Application: APM Welcome: ElamAdmin (Log Out)					
Home Manage Identities Manage A	ccess Policies	Manage Reports	Configure		
▼Users → Groups					
Search Users					
⊙ Global Users					
Attribute: User Name					
Operator: LIKE 💽					
Value:					
C Application User Details					
🗌 Show empty folders 🛛 😡					
Users					
Use 'Search Users' option above to display a list					
A					
- Cosers					

Click the Manage Identities Tab, click 'Go' in the Search Users box

You will get the list of default users that were added with the sample scripts

CA Embedded Entitlements Manager						
Backend	: localhost Applicatio	n: APM Welcor	ne: <mark>EiamAd</mark> n	nin (<u>Log Out</u>)		
Home	Manage Identities	Manage Acce	ss Policies	Manage Reports	Configure	
▼ Users	• Groups					
Search l	lsers	Ŧ				
🖲 Global	Users					
Attrib	ute: Job Title	•				
Opera	tor: LIKE 💽					
Value						
O Applica	ation User Details					
🗆 Show	empty folders Go					
Users						
🔏 🖻 🍃 ເ	lsers					
🔏 🖭	APM					
	Cemanalyst					
	Cerningadmin					
	Scemsysadmin					
	Guest					

Step 5: Configure Introscope Enterprise Manger to connect to EEM

Stop the Enterprise Manger if it is running.

Locate the example file <EnterpriseManagerHome>\examples\authentication\realms.eem.xml

Edit the realms.eem.xml file with a text editor and enter the correct password



In case the EEM installation is on a different machine than the Introscope EM, also edit the <host> property above.

<property name="host"> <value>LODVMEEMSERVER.ca.com</value> </property>

Copy the realms.eem.xml file to the <EnterpriseManagerHome>\config directory. Rename the existing realms.xml to realms.xml.backup Rename the realms.eem.xml to realms.xml

Restart Enterprise Manager, try to login using admin, password=admin

10.130.113.86 - Remote Desktop				
R Console - Introscope Workstation [admin@LODAPM2K3X32WLAO.ca.com:5001]				
Workstation Daghboard Properties ⊻iewer Eavorites Help				
Dashboard: An Intro to Introscope				
A A IN M Time range 8 Minutes V Live Resolution	15 seconds 🗸 🕘 이 이 이			
WELCOME TO				
introscone®				
in ci oscope				
	664			
SYSTEM OVERVIEW				
For more details, double-click on the alert				
technology				
Conviright (c) 2011 CA. All Rights Reserved	Eeb 11 2011 12:10:34 PM EST			
	J 🗳 J 💽 💓 🔐 12:10 PM			

Connection successful

In the EM log:

2/11/11 12:10:20.498 PM EST [INFO] [PO:main Mailman 6] [Manager] User "admin" logged in successfully from host "Node=Workstation_0, Address=LODAPM2K3X32WLAO.ca.com/10.130.113.86:1597, Type=socket" CASE2: Configuring EEM with Introscope to use your own users, groups and policies for domains

For example:, you have a test user that belong to a "grouptest" group and the "test" user has only access to a specific "DummyAgentDomain" domain:

-In users.xml:

users.xml	IntroscopeEnterpriseManager.log
<pre><?xml v <princi <us</pre></pre>	<pre>version="1.0" encoding="UTF-8" standalone="yes"?> ipals xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" pl. sers></pre>
я Я	<pre><user administrator="" group"="" name="Admin" password="d66636b253cb346dbb6240e3def3618"></user></pre>
9<br <td><pre>{group description="groutest" name="grouptest" ></pre></td>	<pre>{group description="groutest" name="grouptest" ></pre>

-In server.xml:

server.xml * users.xml IntroscopeEnterpriseManager.log	
xml version="1.0" encoding="UTF-8"?	
<pre><server td="" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instanc</pre></td><td>e" xs<=""></server></pre>	
<pre></pre>	
(<grant group="testgroup" permission="full"></grant>)	
<7server>	

-In domains.xml:

```
domains.xml* server.xml users.xml IntroscopeEnterpriseManager.log

domains.xml* server.xml users.xml IntroscopeEnterpriseManager.log

</p
```

Connecting as "test" user, you have only access to dummyagent domain:



How to implement this with EEM?

Step 1: Registering APM applications in CA EEM, page 75

Make sure to use an administrator account and add C:\Program Files\CA\SharedComponents\iTechnology to your PATH environment variable.

Update the C:\Introscope9.0.6.0\examples\authentication\eem.register.app.xml as below:

Add the group "testsgroup" and user "test"

eem.register.app.xml	domains.xml server.xml users.xml IntroscopeEnterpriseManager.log	
	<pre></pre>	
	<usergroup folder="/" name="CEM Incident Analyst"> <description>CEM Incident Analyst</description> </usergroup>	
	<pre><usergroup folder="/" name="testgroup"></usergroup></pre>	
	add users to groups <user folder="/APM" name="test"></user>	
	<groupmembership>testgroupk/GroupMembership> </groupmembership>	

Add the policy for the domain:

<user folder="/APM" name="cemincanalyst"> <groupmembership>CEM Incident Analyst</groupmembership></user>
add policies
 <pre></pre>
<pre><description>Test group has full permission for only dumygents Homains</description></pre>
 <identity>ug:testgroup</identity>
<action>full</action>
<pre><resourceclassname>Domain</resourceclassname></pre>
(Resource)DummydgentsDomain(/Resource)
- Paliew
() I 0 I 10 J /

Run the following command:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f
C:\Introscope9.0.6.0\examples\authentication\eem.register.app.xml



NOTE: If for some reason you need to remove the default APM users, run:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f
C:\Introscope9.0.6.0\examples\authentication\eem.unregister.app.xml



Step 3: Creating APM users in CA EEM, page 77

Update the C:\Introscope9.0.6.0\examples\authentication\ eem.add.global.identities.xml as below as per our example:

eem.add.global.identities.x	ml* eem.register.app.xml domains.xml server.xml users.xml IntroscopeEnterpriseManager.log
<(GlobalFolder name="/APM" />
<(GlobalUser name="test" folder="/APM"> <username>test</username> <displayname>test</displayname>
	<pre></pre>
<(GlobalHser name="admin" folder="/APM">

Run the following command:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f

C:\Introscope9.0.6.0\examples\authentication\eem.add.global.identities.xml



NOTE: If for some reason you need remove the default users, run:

safex.exe -h localhost -u EiamAdmin -p @dmin123 -f

C:\Introscope9.0.6.0\examples\authentication\eem.remove.global.identities.xml

C:\>safex.exe -h localhost -u EiamAdmin -p Qdmin123 -f C:\Introscope9.0.6.0\ ples\authentication\eem.remove.global.identities.xml Setting back end to "localhost"	exam
Setting locale to "en_us"	
Detected EEM Server on host: [localhost] OK: Successfully Authenticated OK: action[Attach] with ApplicationInstance label[] OK: action[Remove] performed on object[GlobalUser] name[/APM/guest] OK: action[Remove] performed on object[GlobalUser] name[/APM/cenadmin] OK: action[Remove] performed on object[GlobalUser] name[/APM/cenadmin] OK: action[Remove] performed on object[GlobalUser] name[/APM/cenanlyst] OK: action[Remove] performed on object[GlobalVser] name[/APM/cenanlyst] OK: Total objects Added[0] OK: Total objects Modified[0] OK: Total objects Skipped[0] OK: Total objects Exported[0] OK: Total objects Exported[0] C:\>_	

Step 4: Verify application and created users and groups.

Connect to the EEM UI: <u>http://<EEM HostName>:5250/spin/eiam/eiam.csp</u>

	CA Embedded Entitlements Manager
	Application: APM User Name: EiamAdmin Password: •••••••
	Log In
Copyright © 2010 CA. All righ	nts reserved.

Application = 'APM' User Name = 'EiamAdmin' Password = @dmin123

CA Embedded Entitlements Ma	anager			
Backend: localhost Application: APM Welco	ome: EiamAdn	nin (<u>Loq Out</u>)		
Home Manage Identities Manage Acce	ess Policies	Manage Reports	Configure	
▼ Users → Groups				
Search Users I				
Attribute: User Name				
Operator: LIKE				
Value:				
O Application User Details				
🗖 Show empty folders 😡				
┃◀				
Users				
Use 'Search Users' option above to display a list				
a lisers				

Click the Manage Identities Tab, click 'Go' in the Search Users box You will get the list of default users that were added with the sample scripts

CA Embedded Entitlements Manager - Microsoft In	ernet Evolorer
File Edit View Eavorites Tools Help	
🕽 Baak - 🔿 - 🖸 🔿 🔨 🖉 Caarab 👉 Sauraka	
gdress 🥮 https://localhost:5250/spin/eiam/ihr_eiam.csp	
CA Embedded Entitlements Ma	nager
Backend: localhost Application: <global> W</global>	elcome: ElamÁdmin (Log Out) Updated: Wednesday, February 16, 2011 10:46:20 A
Home Manage Identities Manage Acce	ss Policies Manage Reports Configure Help Abo
▼ Users → Groups	· · · · · · · · · · · · · · · · · · ·
Iobal Users	User Save Delete Close
Attribute: User Name	Folder: /APM
Derator: LIKE	Name: test
alue:	
Show empty folders	
leare	First Name: test Middle Name: Last Name: test
	Display Name: test
S = B APM ↓	
Admin	Alias: Address:
cemadmin cemanalyst	Job Title:
- Scemconfigadmin	Company:
Guest	Department: Right details frame City:
test	Office: State:
	Work Phone: 1 888 GET WILY (1-888-438 Postal Code:
	Fax:
	Mahilar Nail staar
	Home phone: Email address: support@wilytech.com
Done	🔒 🛐 Local intranet
📙 Start 🛛 📴 🥭 👘 🔂 🔂 🖂 🖓 🖂 🖓 🔂 🖓 🔄 🖓	🙆 Conne 👩 2 Int 🕃 TextP 🔕 Intros 🏼 🛃 Tomcat 🛛 🍇 2 Ja

Step 5: Configure Introscope Enterprise Manger to connect to EEM

Stop the Enterprise Manger if it is running.

Locate the example file

<EnterpriseManagerHome>\examples\authentication\realms.eem.xml

Edit the realms.eem.xml file with a text editor and enter the correct password



In case the EEM installation is on a different machine than the Introscope EM, also edit the <host> property above.

<property name="host"> <value>LODVMEEMSERVER.ca.com</value> </property>

Copy the realms.eem.xml file to the <EnterpriseManagerHome>\config directory. Rename the existing realms.xml to realms.xml.backup Rename the realms.eem.xml to realms.xml

Restart Enterprise Manager, login using test user, password=test



Connection successful In the EM log:

2/16/11 11:21:19.235 AM EST [INFO] [btpool0-2] [Manager.EemRealm] "EEM" realm attached to application "APM" in EEM server at "localhost"

2/16/11 11:21:21.548 AM EST [INFO] [PO:main Mailman 6] [Manager] User "test" logged in successfully from host "Node=Workstation_0, Address=LODAPM2K3X32WLAO.ca.com/10.130.113.86:2609, Type=socket"