PACKETSHAPER ADMIN ACCESS USING 802.1x WITH CLEARPASS

In this article I'll try to explain how we can do radius authentication for administrator access in bluecoat packetshaper with Clearpasss Policy manager.

BLUECOAT PACKETSHAPER WITH CLEARPASS

Here I assume that you have a packetshaper up & running. First thing you should know to perform this operation is packetshaper's administrative mode.
In packetshaper there are two mode

1. Touch [For read & write]
2. Look [For read only]

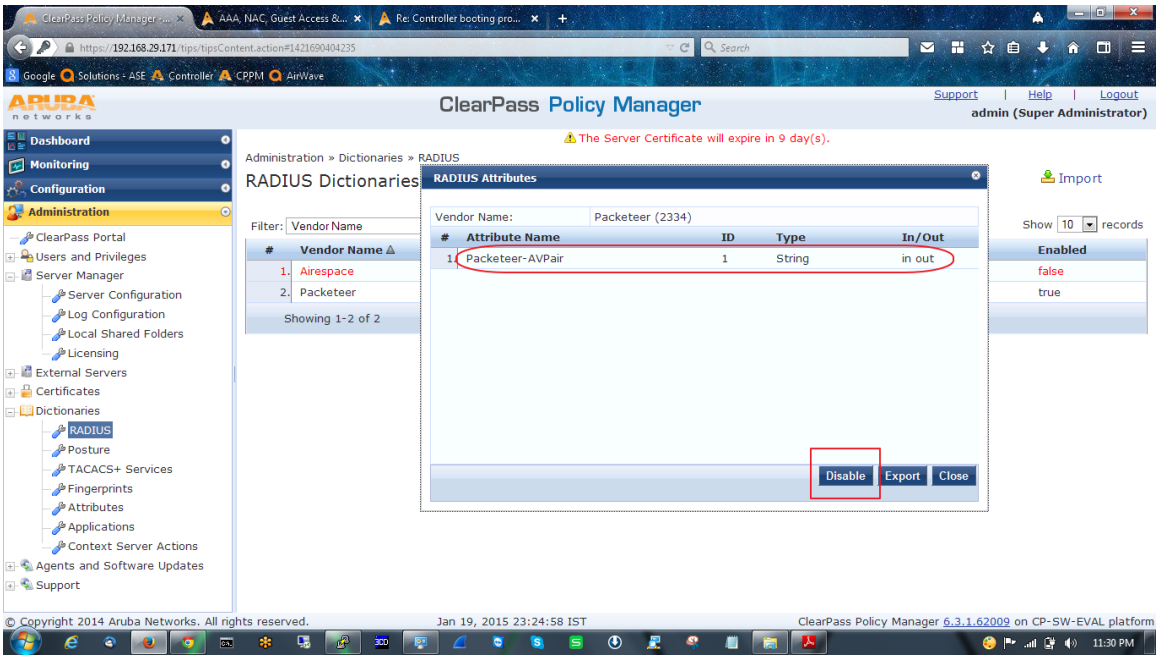
For details https://bto.bluecoat.com/webguides/packetguide/11.1/nav/tasks/configure/setup-security.htm

So here we'll do touch login. For that we need some special attribute called "access=touch". It should come from CPPM, through this attribute only packetshaper can understand 'oh! This is my administrator, so give him read & write access.

1. **Configuring CPMM**

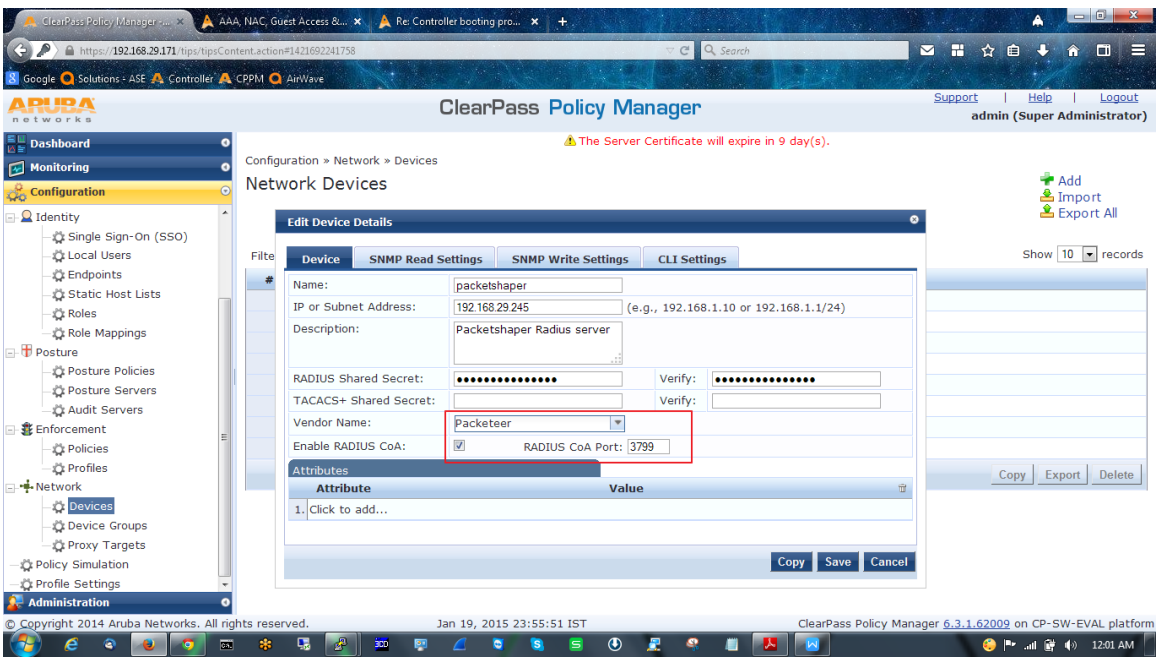
- Log in to the CPPM & go to Administration » Dictionaries » RADIUS.

There you will get all predefined Vendor and VSA, [If you want you can import your own also] now go to Packeteer Vendor name and enable [by default it's disabled].



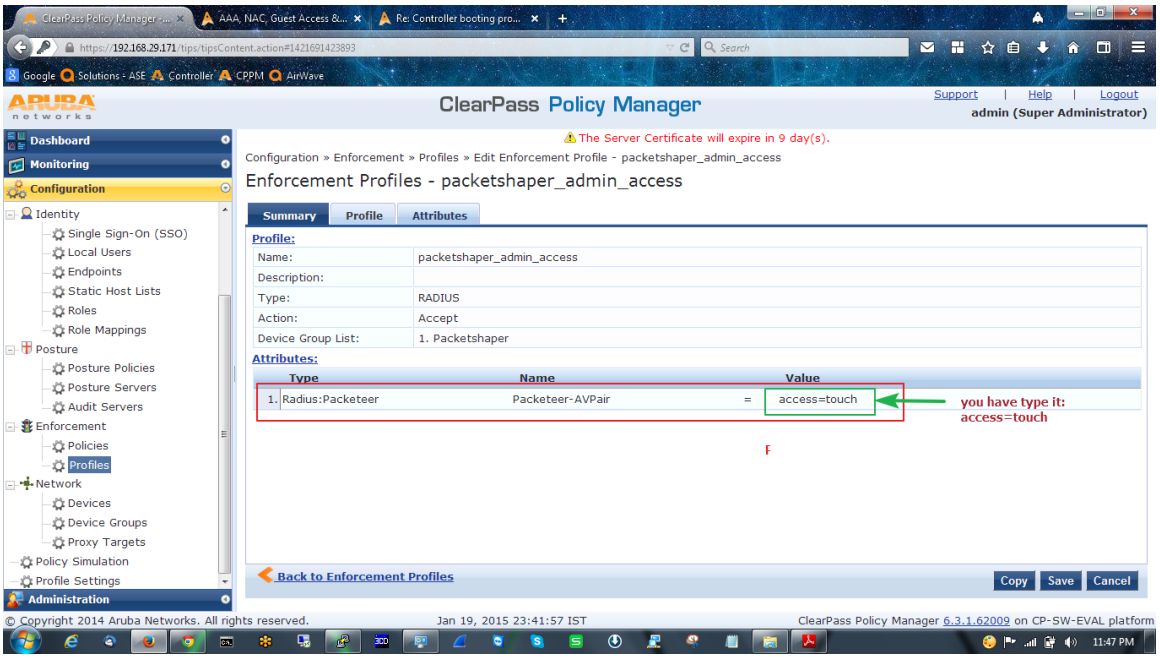
- Open Configuration » Network » Devices

And add that Packetshaper, remember here you have to give vendor name [Packetshaper] If you want you can create a Device group for this PS [Best Practice].



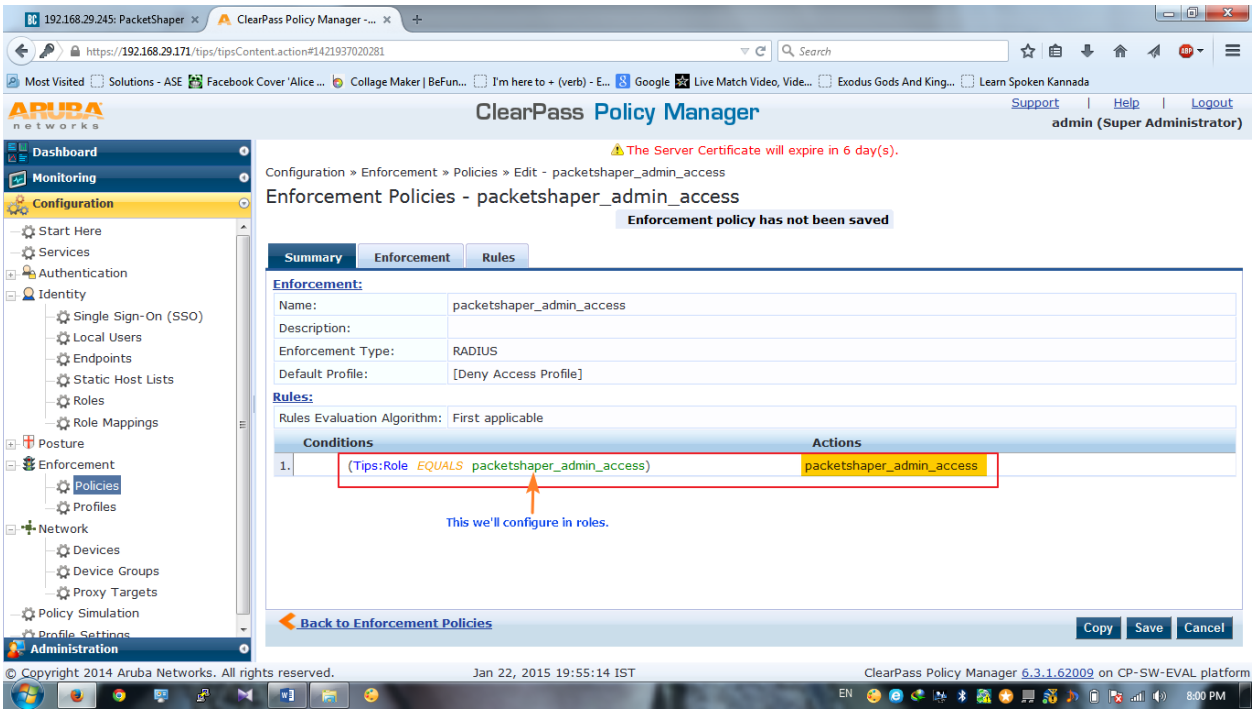
- Go to Configuration » Enforcement » Profiles »

Add a Enforcement profile, & in attribute tab choose ‘Radius: Packeteer’ & value ‘access=touch’ [you have to enter this manually, remember this is case sensitive]



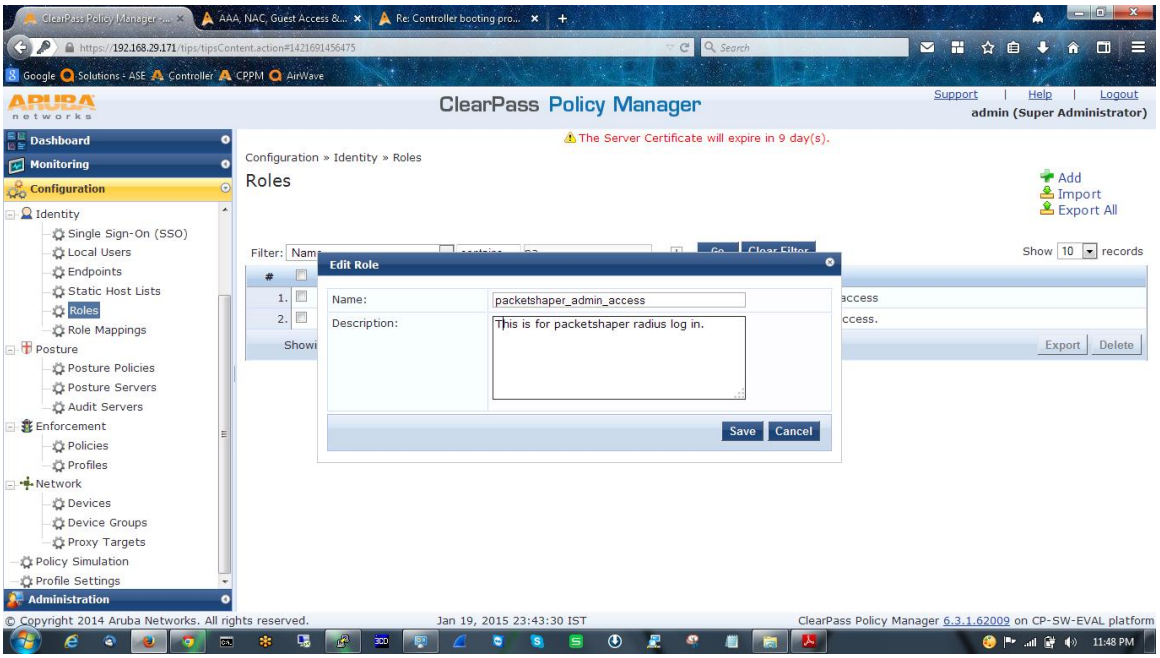
- Switch to Configuration » Enforcement » Policies »

Choose ‘default role’, create one Tips role with a value [enter manually & remember, because we have to create same ‘Roles’ for local user, this is case sensitive], assign the enforcement policy.



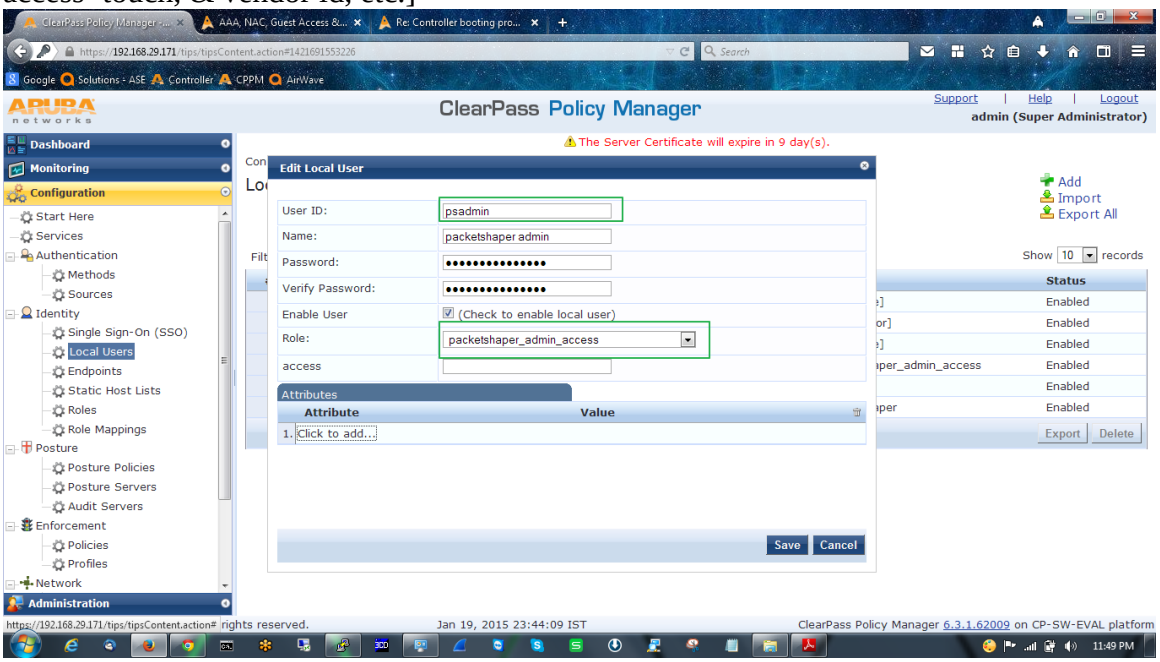
- Now open Configuration » Identity » Roles

Assign the same name as assigned in enforcement policy. In my case both are
< packetshaper_admin_access >



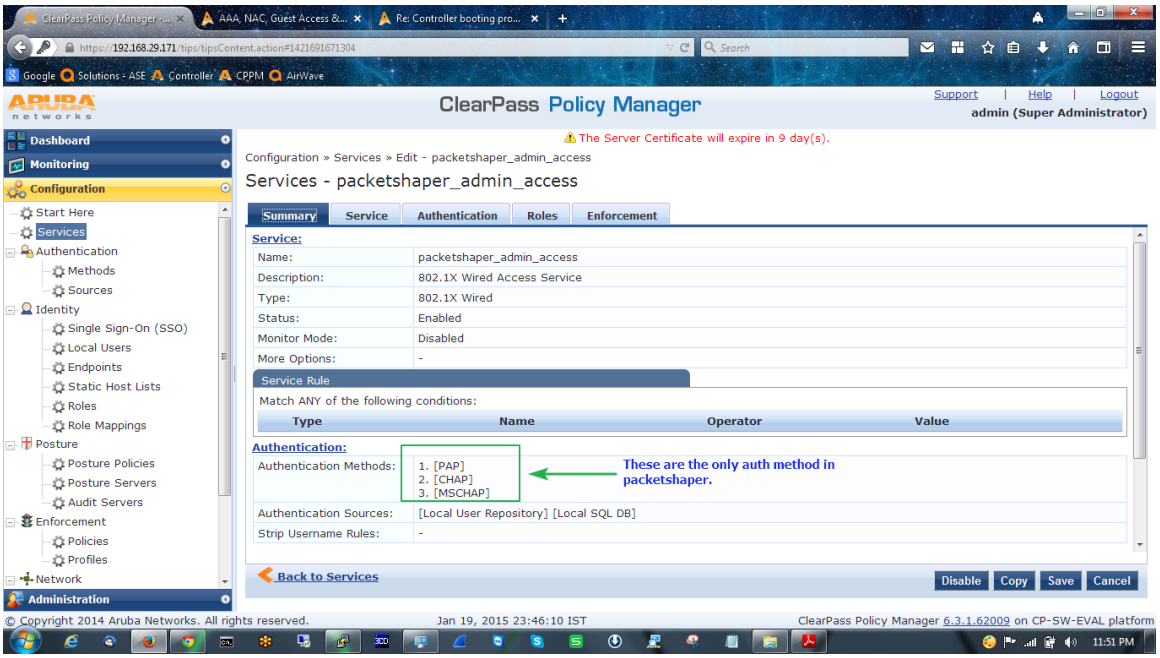
- Role mapping is not required, but you can configure if you want.
- Go to Configuration » Identity » Local Users

Create one user, and assigned that role, which we configured in Roles [This is the most important steps, because from here CPPM will start to retrieve the vendor specific attribute and vendor id. [Retrieving will be like this # user>Roles>Enforcement policy> Enforcement Profile> access=touch, & vendor id, etc.]

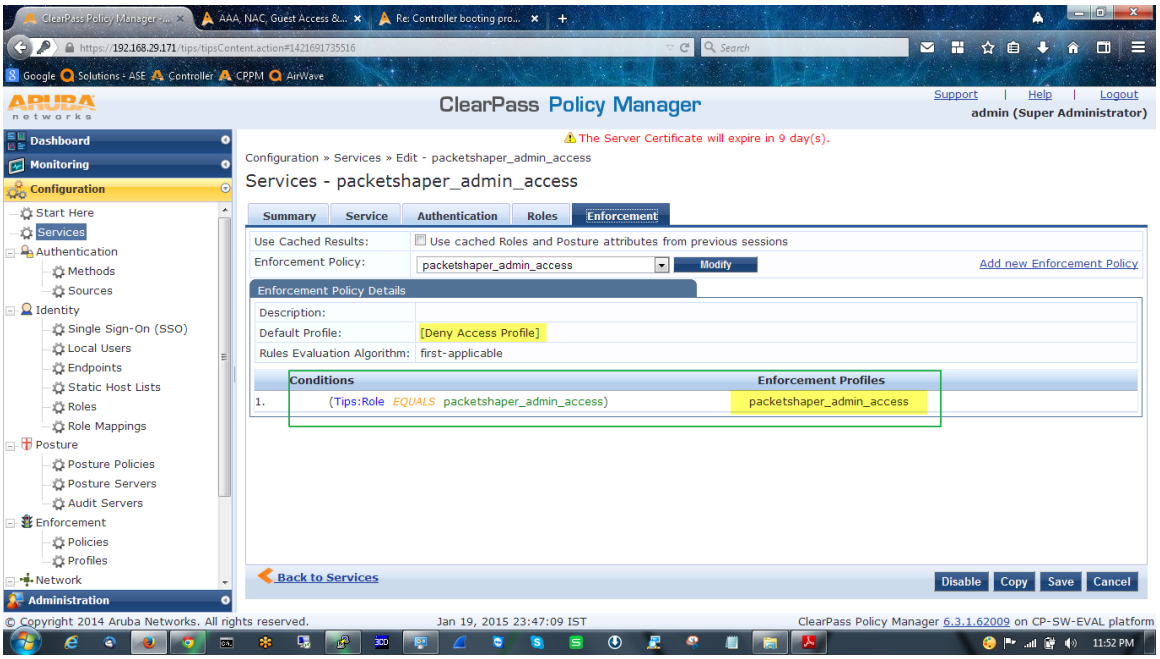


- Create one service [Configuration »Services],

Here I'll use Internal DB as an authentication source, if you want you can use AD for authentication source.



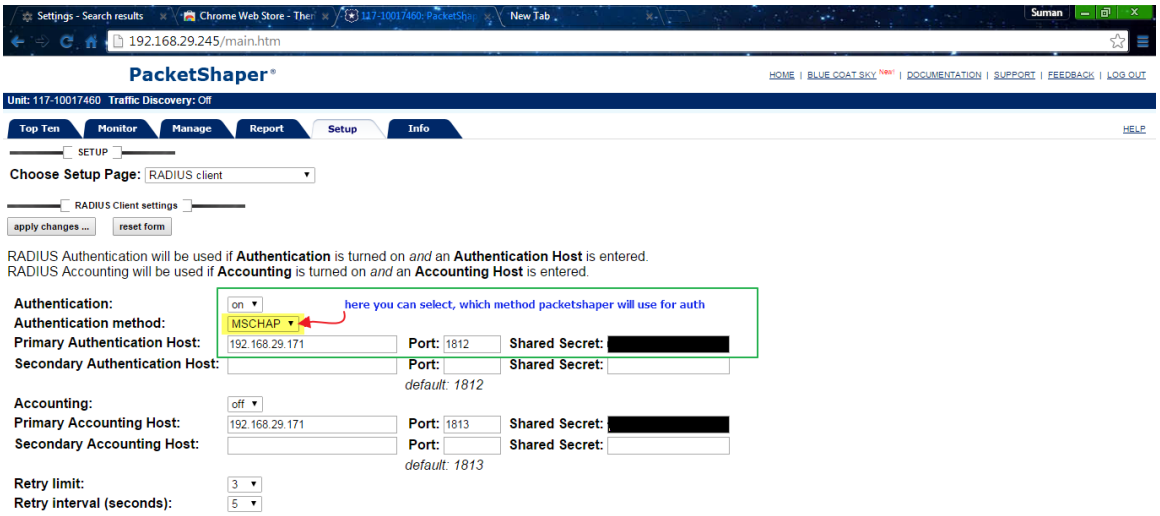
In Enforcement add the appropriate enforcement profile.



2. **Configuring Packetshaper :**

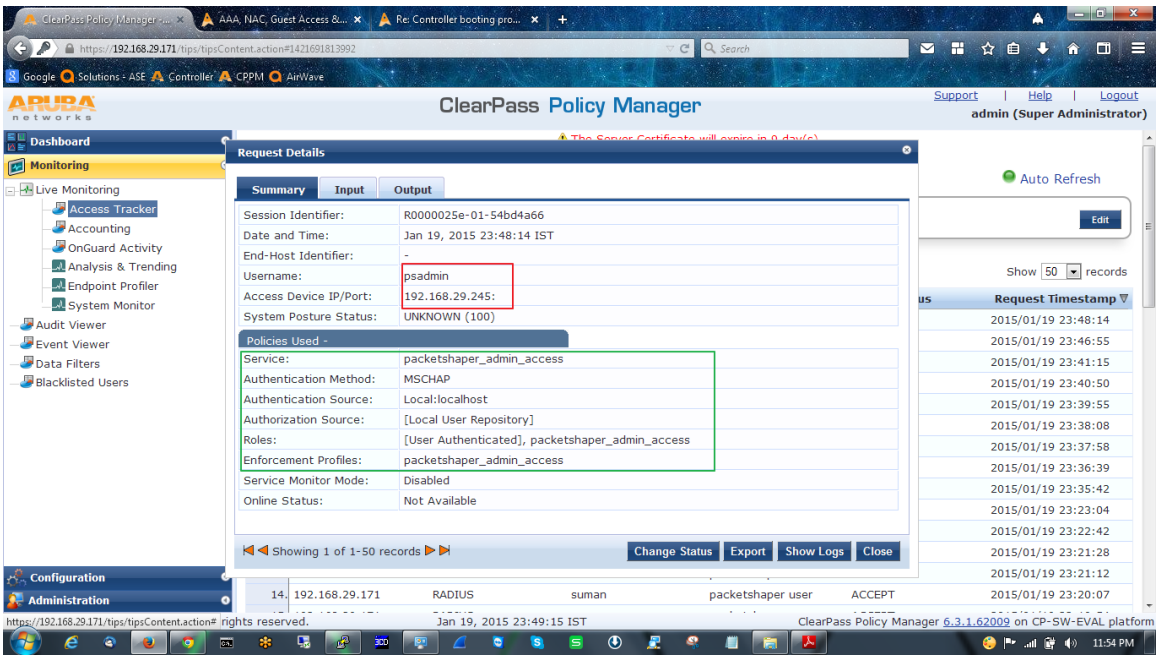
- Login to the PS as touch [read & write], & go to setup>Radius client

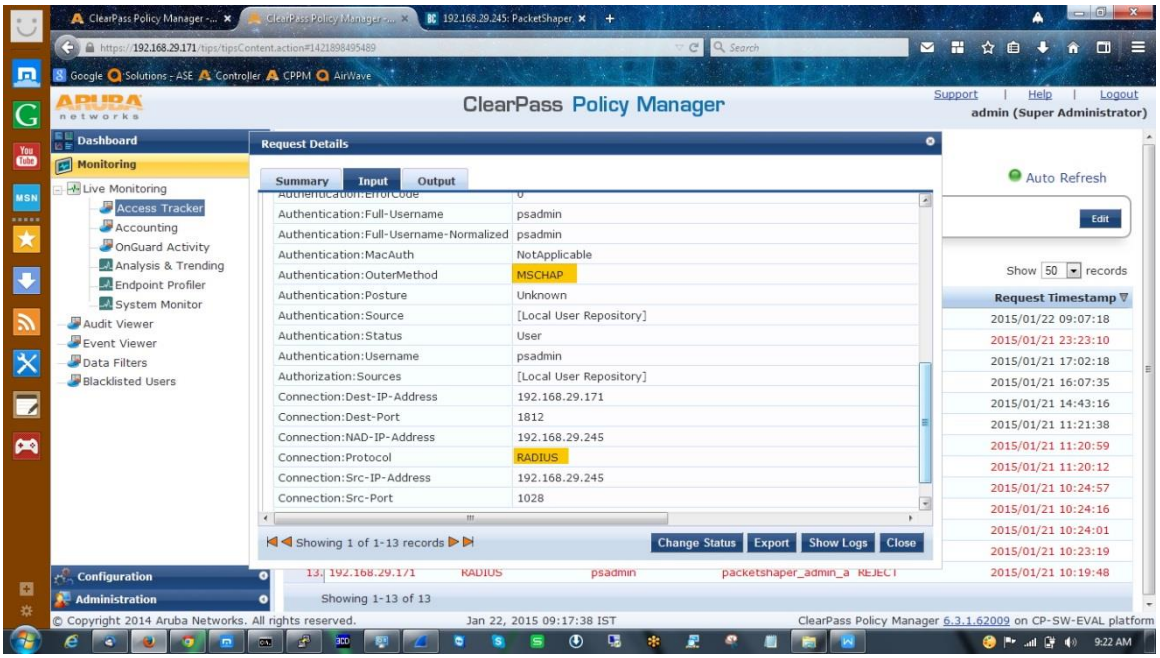
In the authentication host tab, put the IP address of the CPPM, turn on the authentication. That's all.

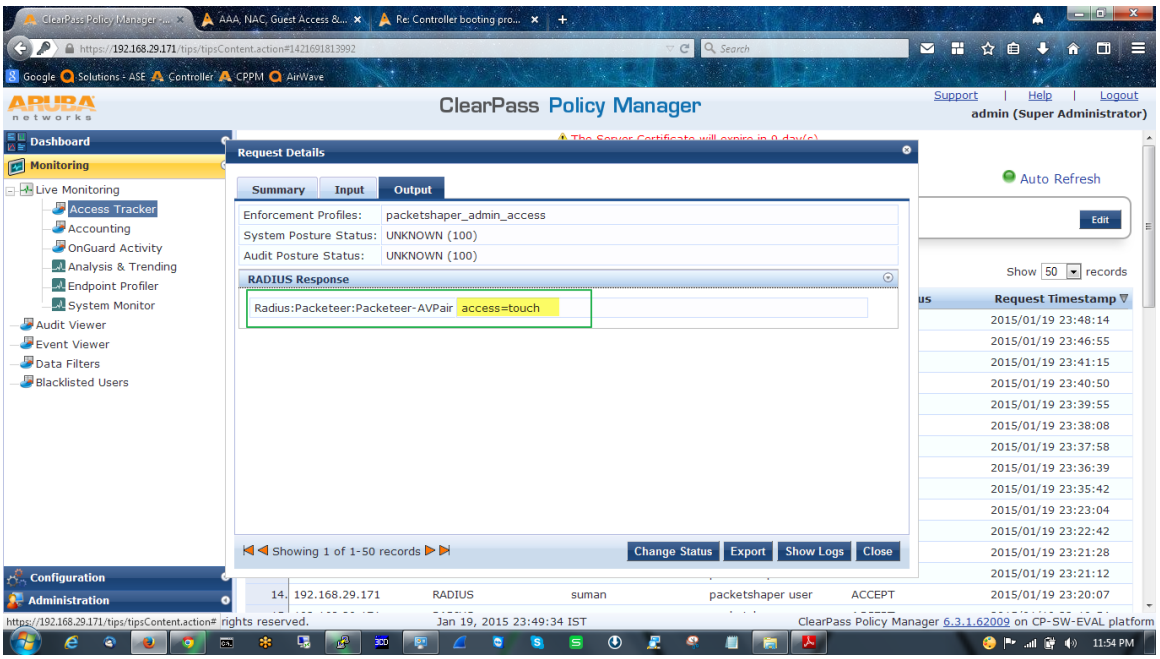


ALL HAS DONE, IT'S TIME TO CHECK OUTPUT

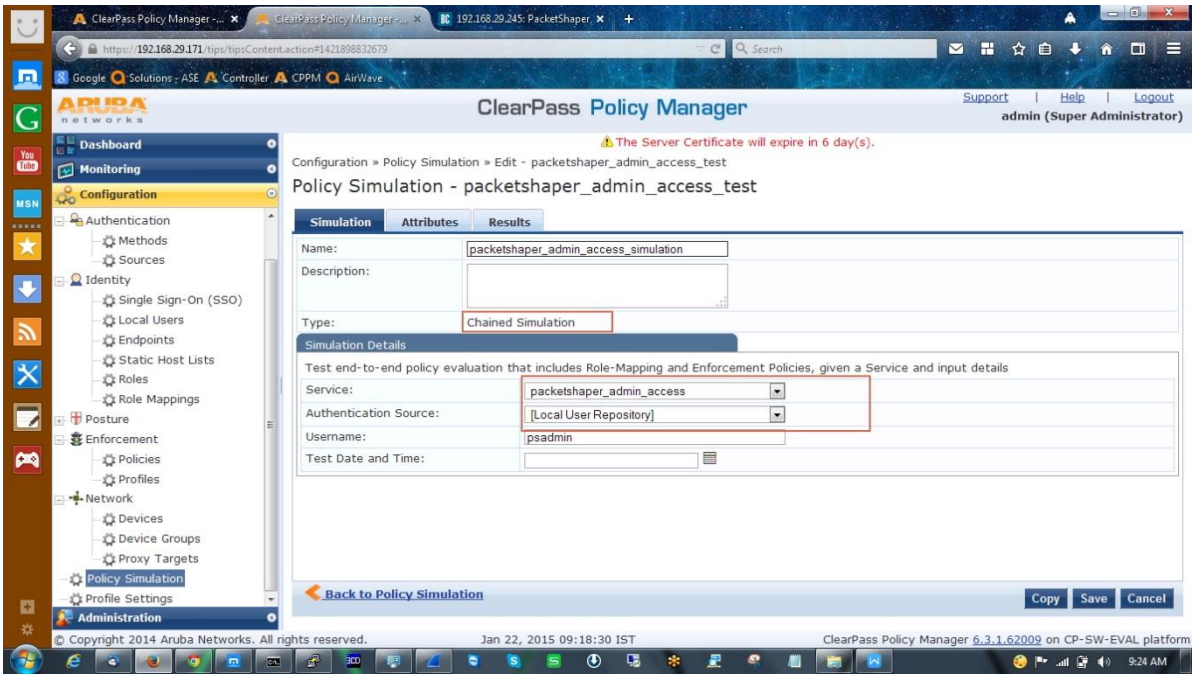
- ✓ **In CPPM Access Tracker.**

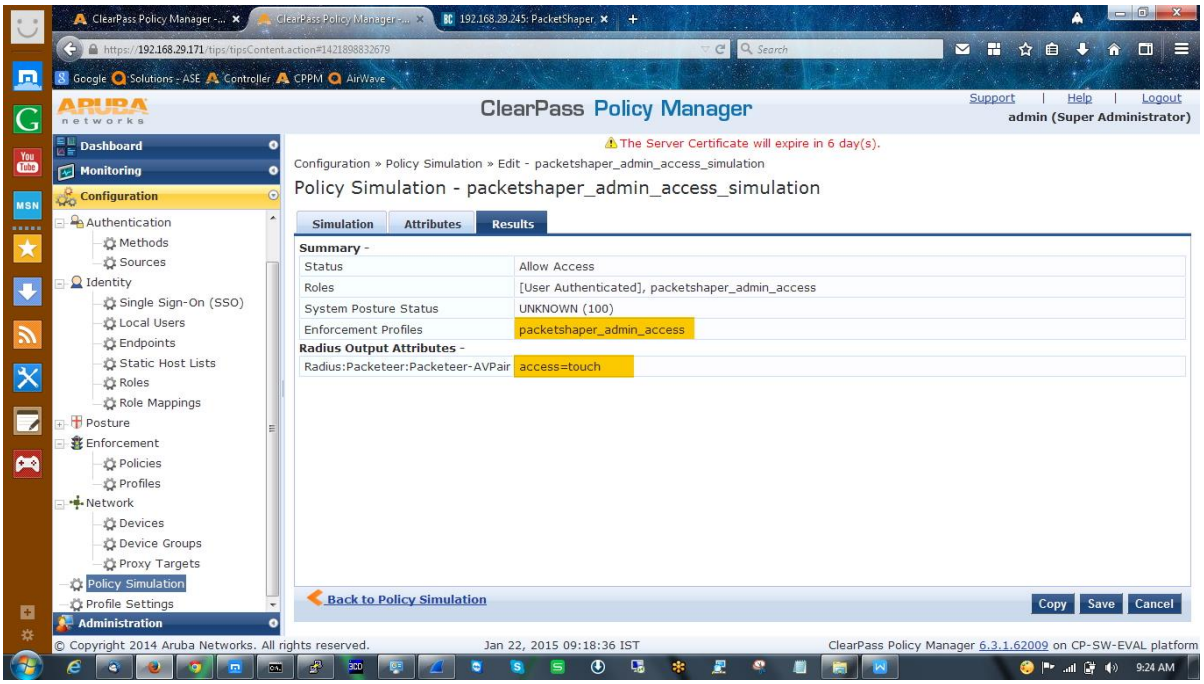




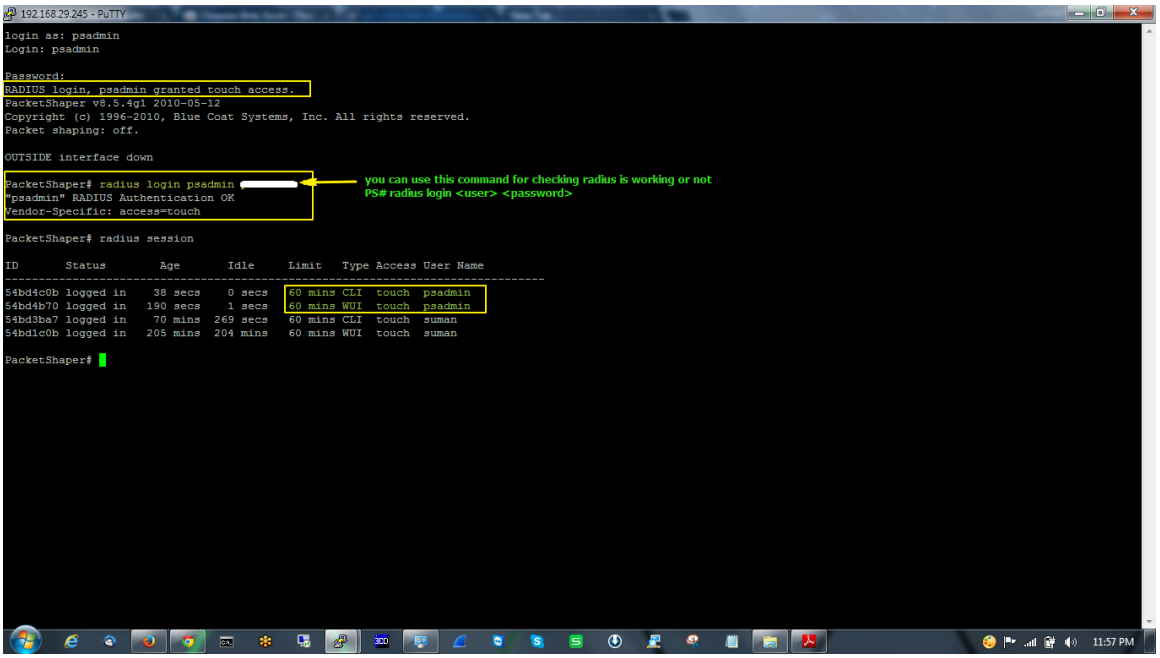


- ✓ **In Clearpass policy simulation.**





- ✓ **In Bluecoat Packetshaper.**


192.168.29.245 - PuTTY
login as: psadmin
Login: psadmin
Password:
RADIUS login, psadmin granted touch access.
PacketShaper v8.5.4g1 2010-05-12
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Packet shaping: off.
OUTSIDE interface down
PacketShaper# radius login psadmin
"psadmin" RADIUS Authentication OK
Vendor-Specific: access=touch
you can use this command for checking radius is working or not
PS# radius login <user> <password>
PacketShaper# radius session
ID Status Age Idle Limit Type Access User Name
54bd4c0b logged in 38 secs 0 secs 60 mins CLI touch psadmin
54bd4b70 logged in 190 secs 1 secs 60 mins WUI touch psadmin
54bd3ba7 logged in 70 mins 269 secs 60 mins CLI touch suman
54bd1c0b logged in 205 mins 204 mins 60 mins WUI touch suman
PacketShaper#
11:57 PM

THANK YOU