EAP-TLS Termination

Termination of EAP-TLS on Aruba OS 3.1

This setup for EAP-TLS termination was do with the following

- Aruba Controller running AOS 3.1 or greater
- Windows 2003 server running a Microsoft Cert Authority, IIS and acting as a Domain Controller
- Juniper Odyssey Access Client

1. Certificate Creation
    a. Server Cert
    b. Trusted CA Cert
2. Controller Authentication Configuration
    a. Configure TLS AAA Profile
3. AP Configuration
    a. Add TLS Virtual AP
4. Client Configuration

1. Certificate Creation

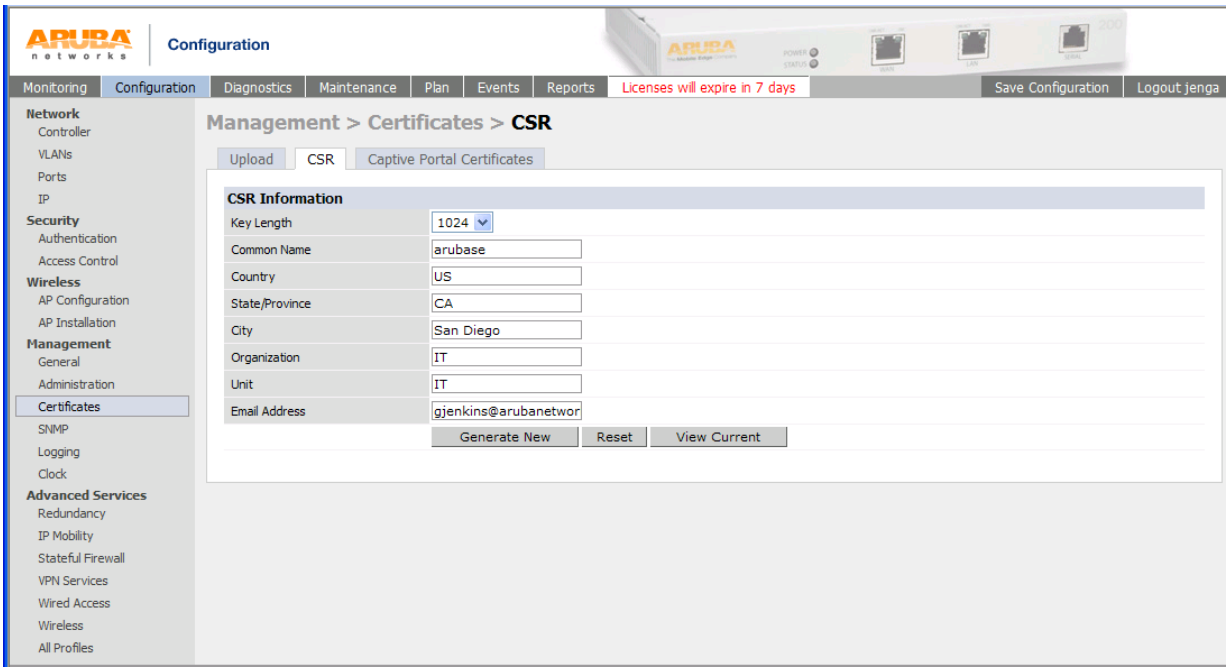
   You will need both a Server Cert and a Trusted CA Cert for EAP-TLS.

   a. **Server Cert** – Generate a CSR by going to the Aruba Controller:

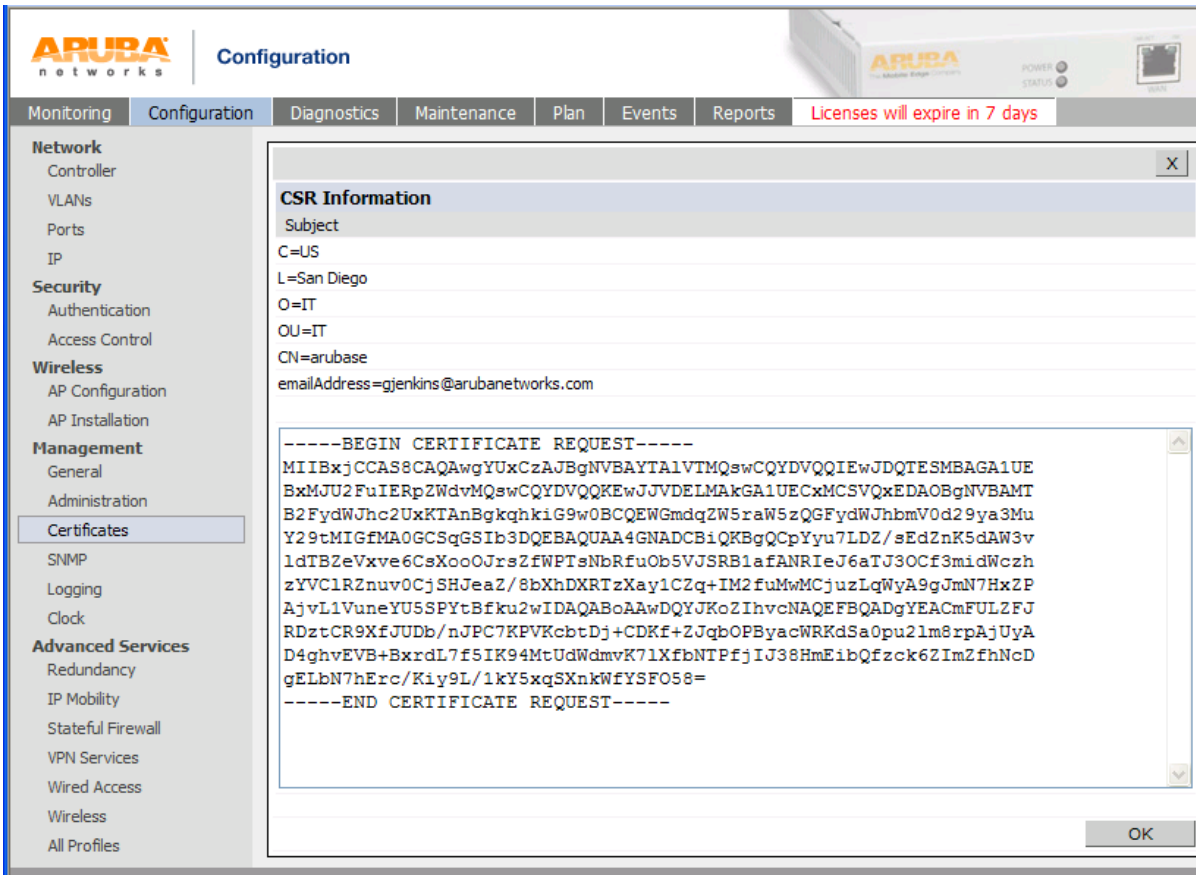
      i. *Configuration> Management > Certificates >* CSR

      ii. Fill in all fields and click> Generate New

      iii. View Current

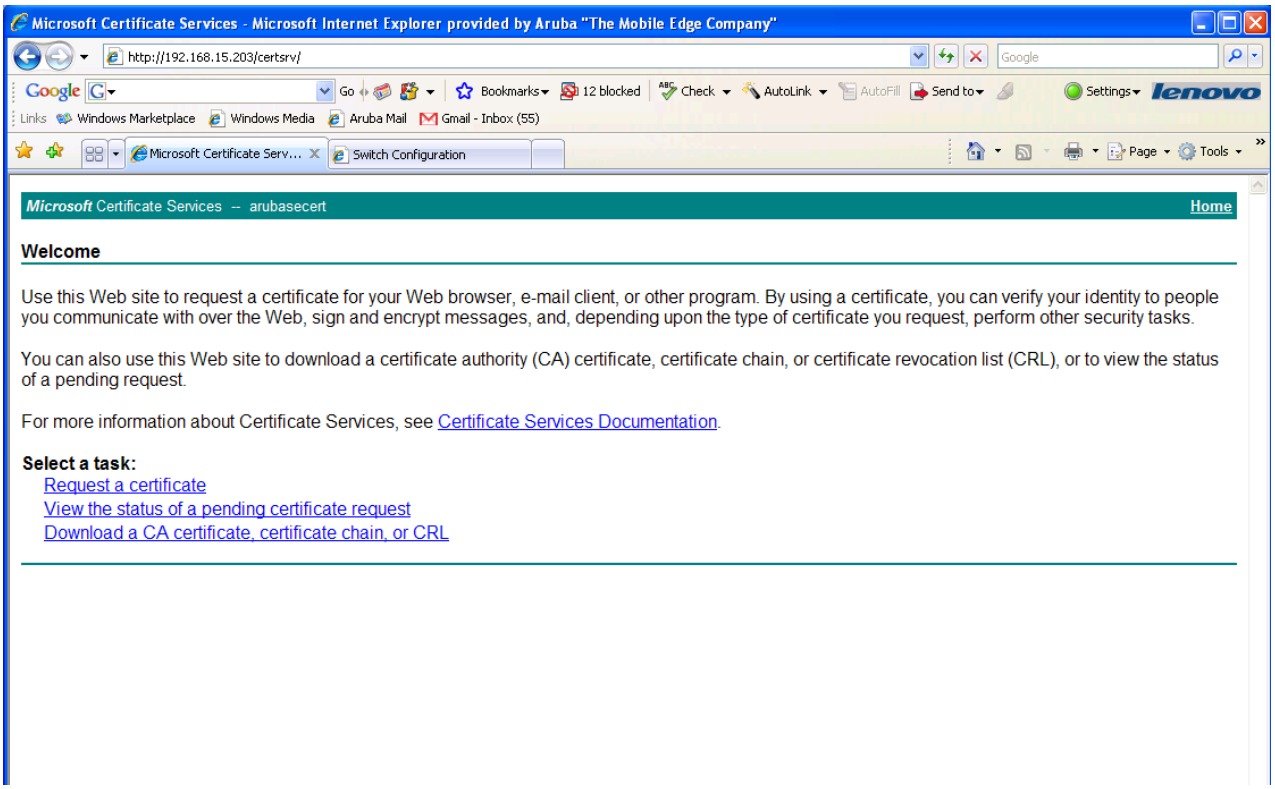


      iv. Copy entire request from "-----BEGIN…." to "…REQUEST-----"

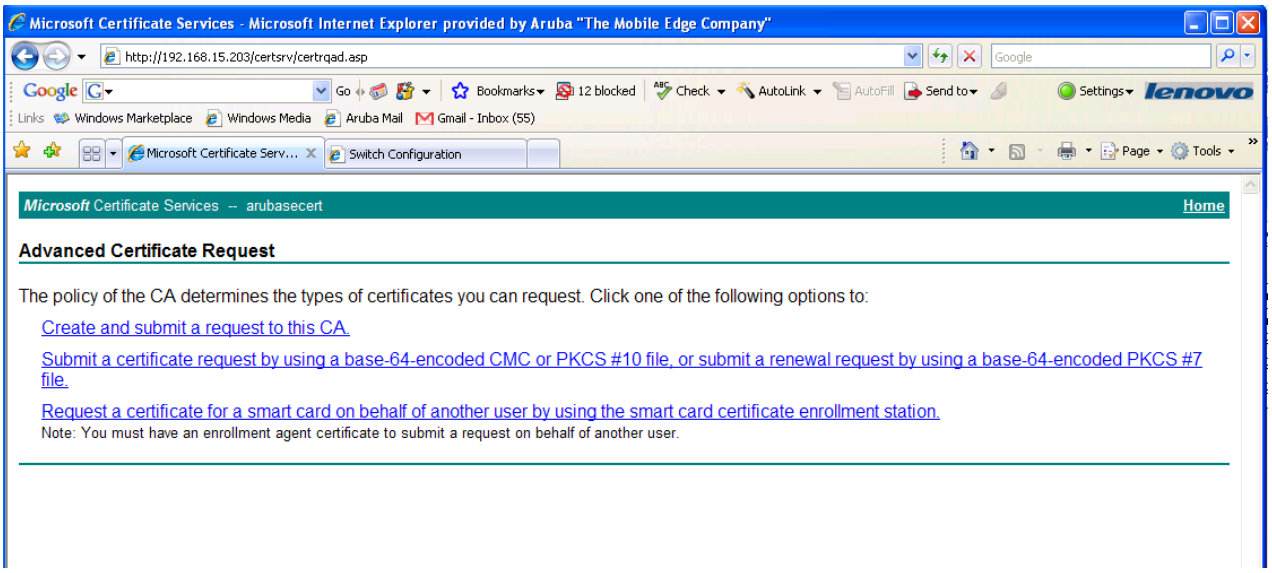


v. Using your web browser go to your MS Certificate Server with the url of http://x.x.x.x/certsrv

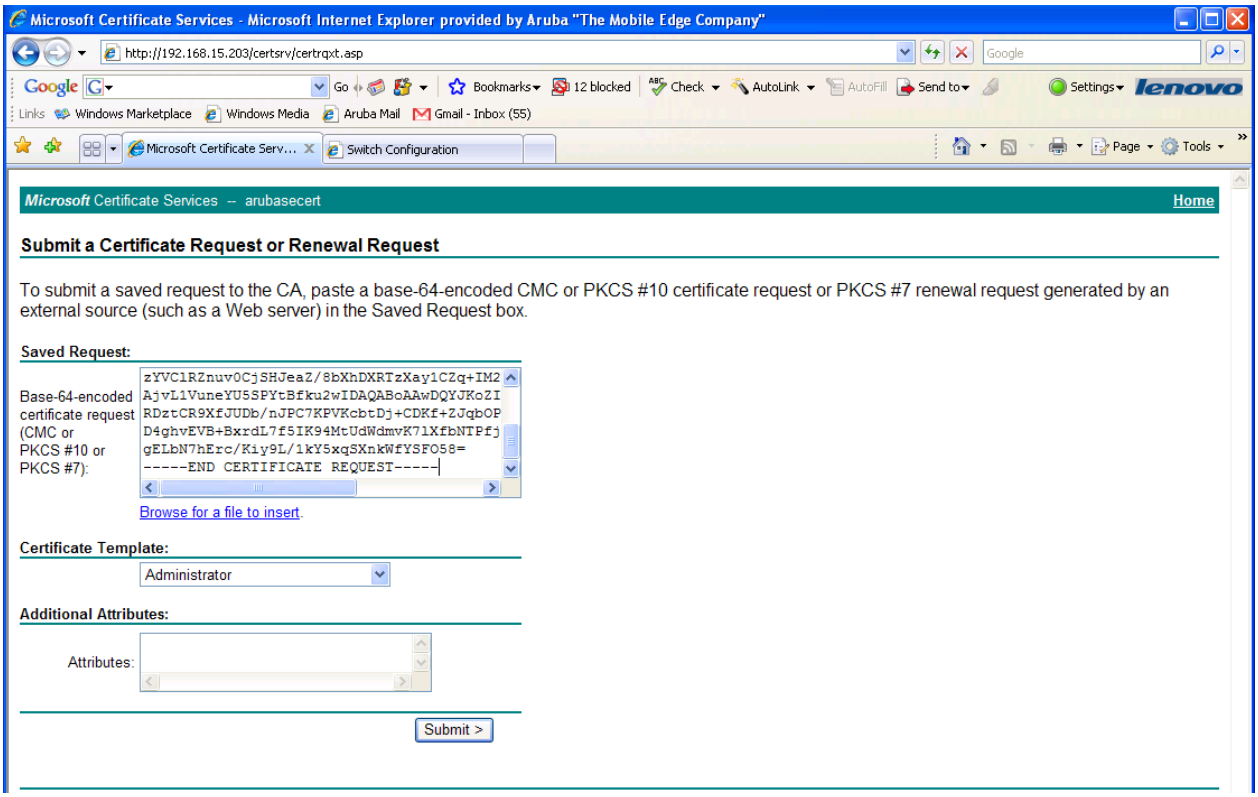
vi. > Request a certificate



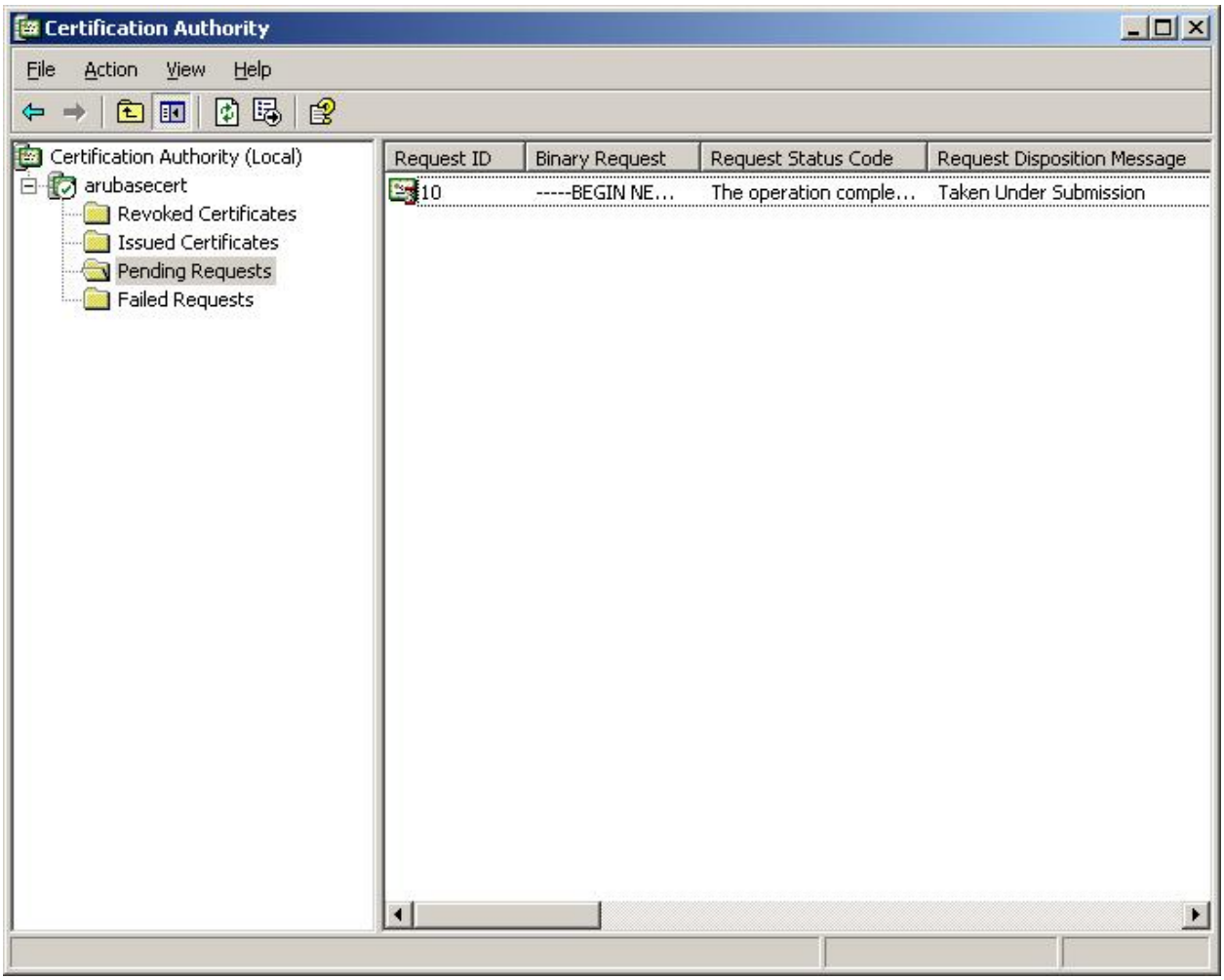
vii. Submit a certificate request by using a base-64-encoded….



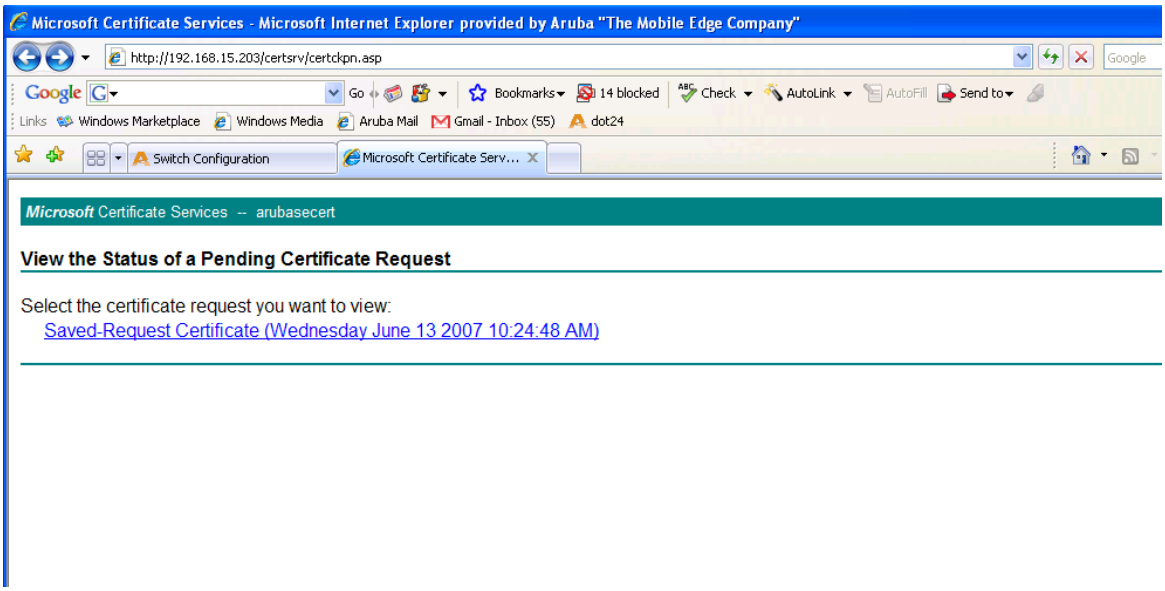
viii. Paste in CSR information



ix. The Cert Admin will need to approve the pending request via the MS Cert Authority. You do this by right clicking on it and choosing Issue

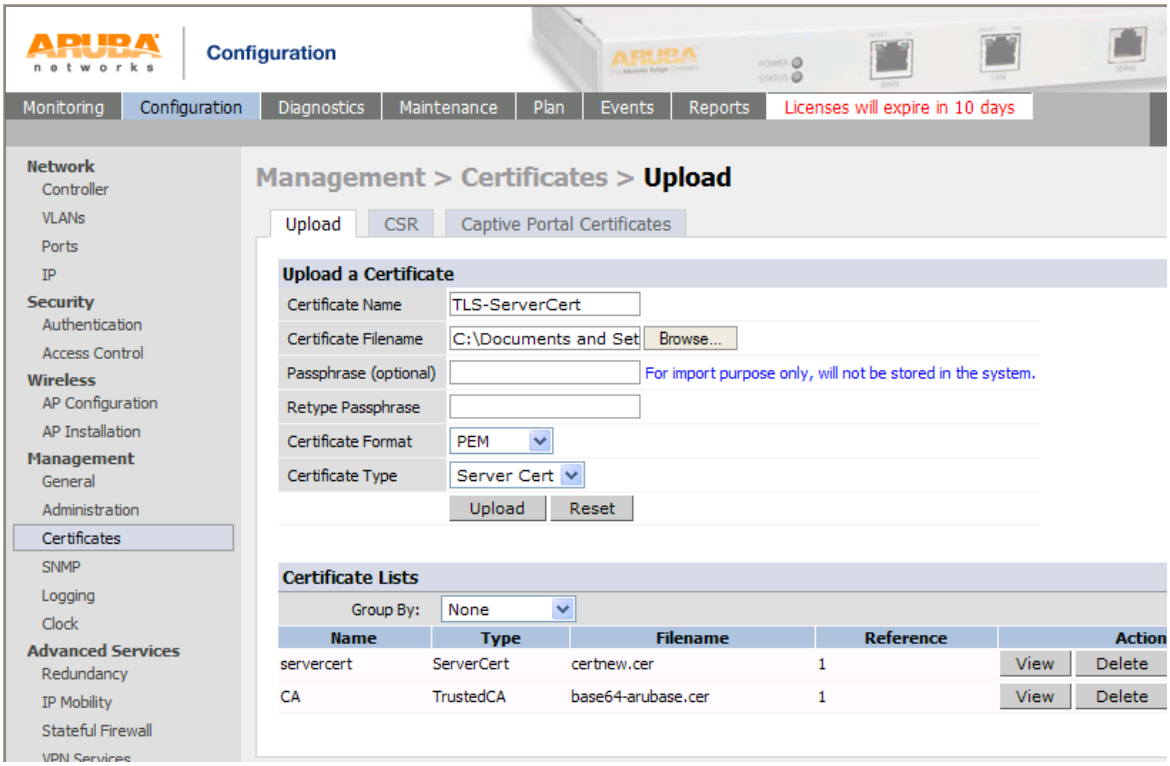


x. You will now be able to web surf back to http://x.x.x.x/certsrv and download your cert. You should use a name that tells you it is the Server Cert so you don't get it mixed up with your CA Cert



xi. Upload the Server Cert to the Aruba Controller.

1. Cert format is PEM
2. Cert Type is Server Cert

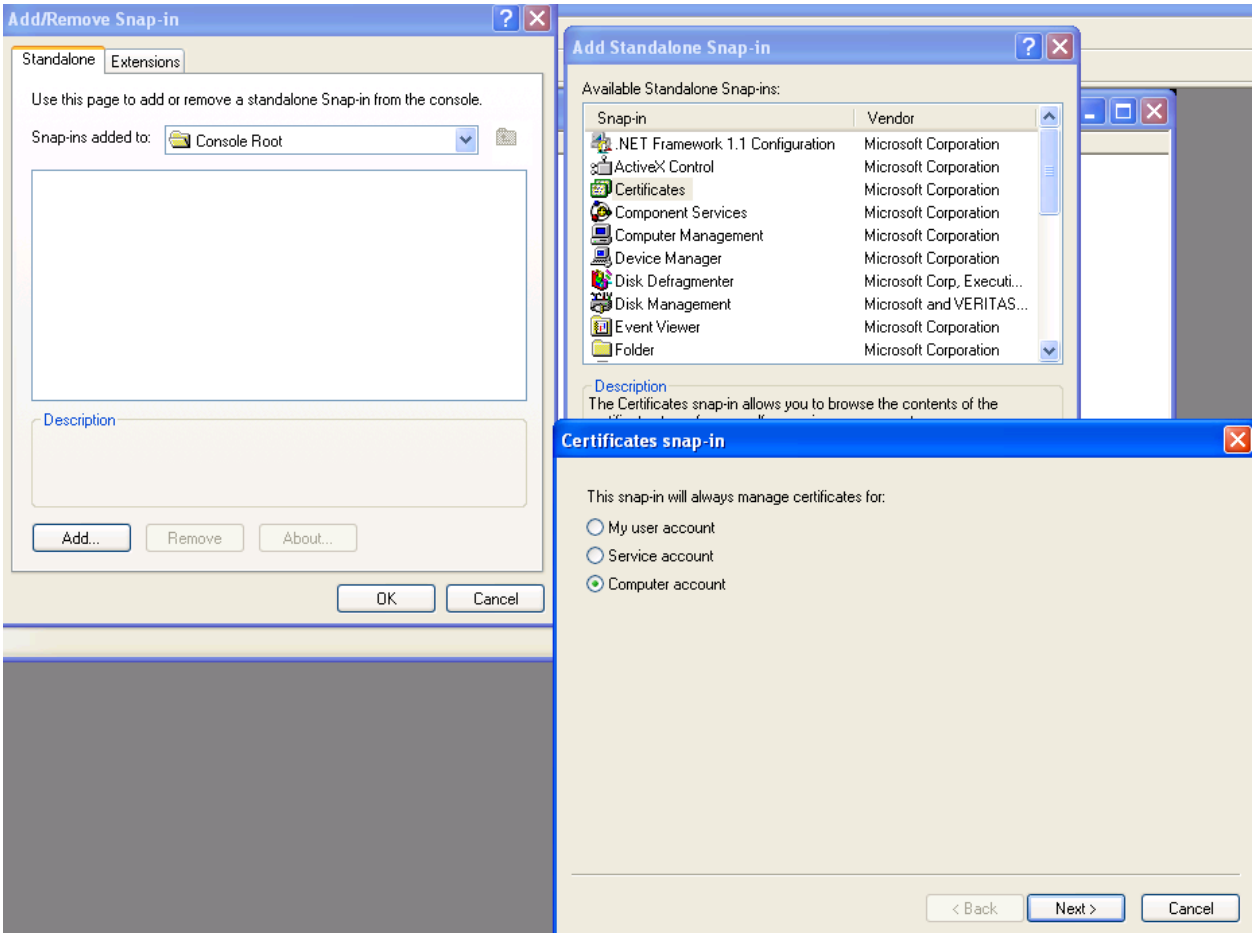


b. Trusted CA Cert

i. From the Windows 2003 server go to Start> run and type mmc into the run dialog box. This will bring up the mmc console.

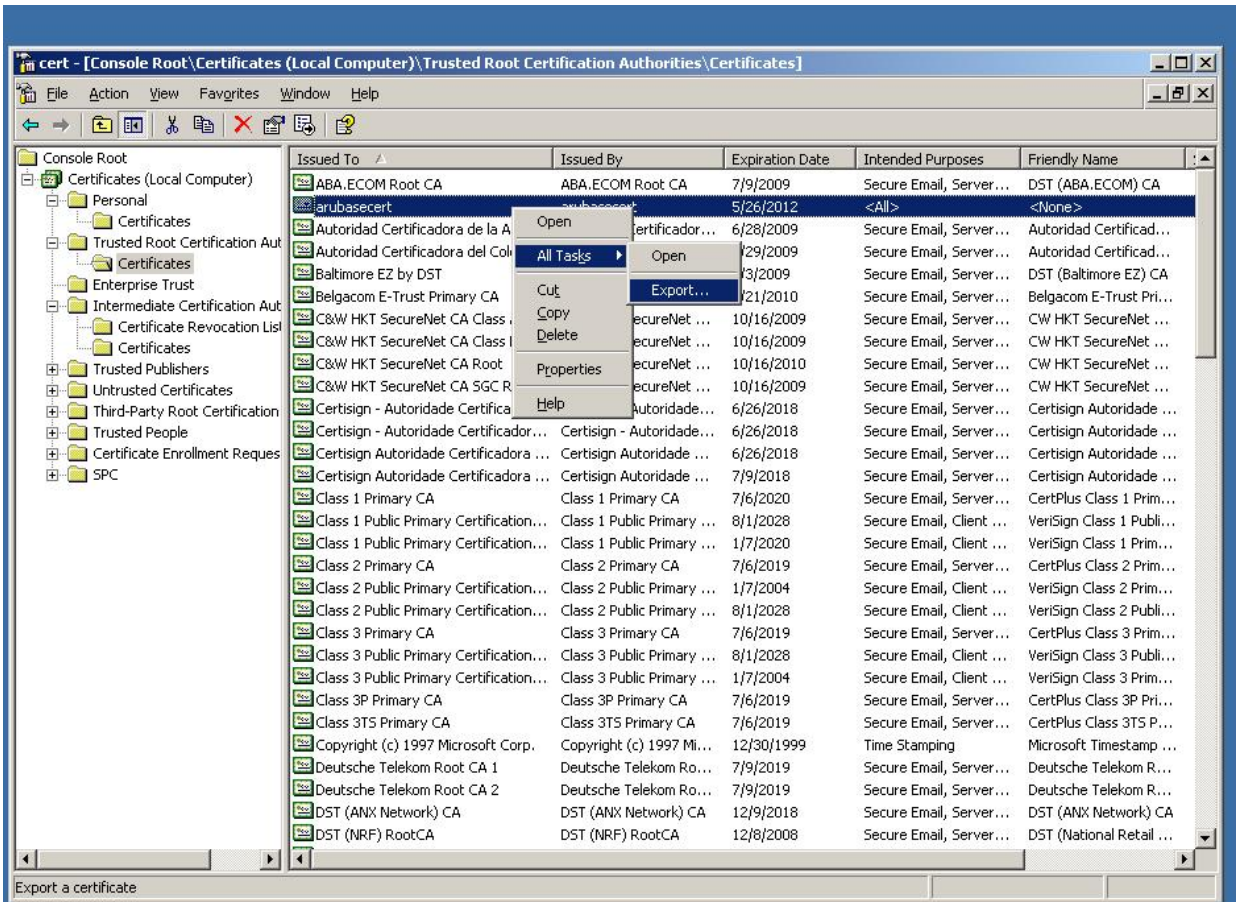
ii. go to File > add snap-in

iii. Add the Certificate snap-in with Computer account

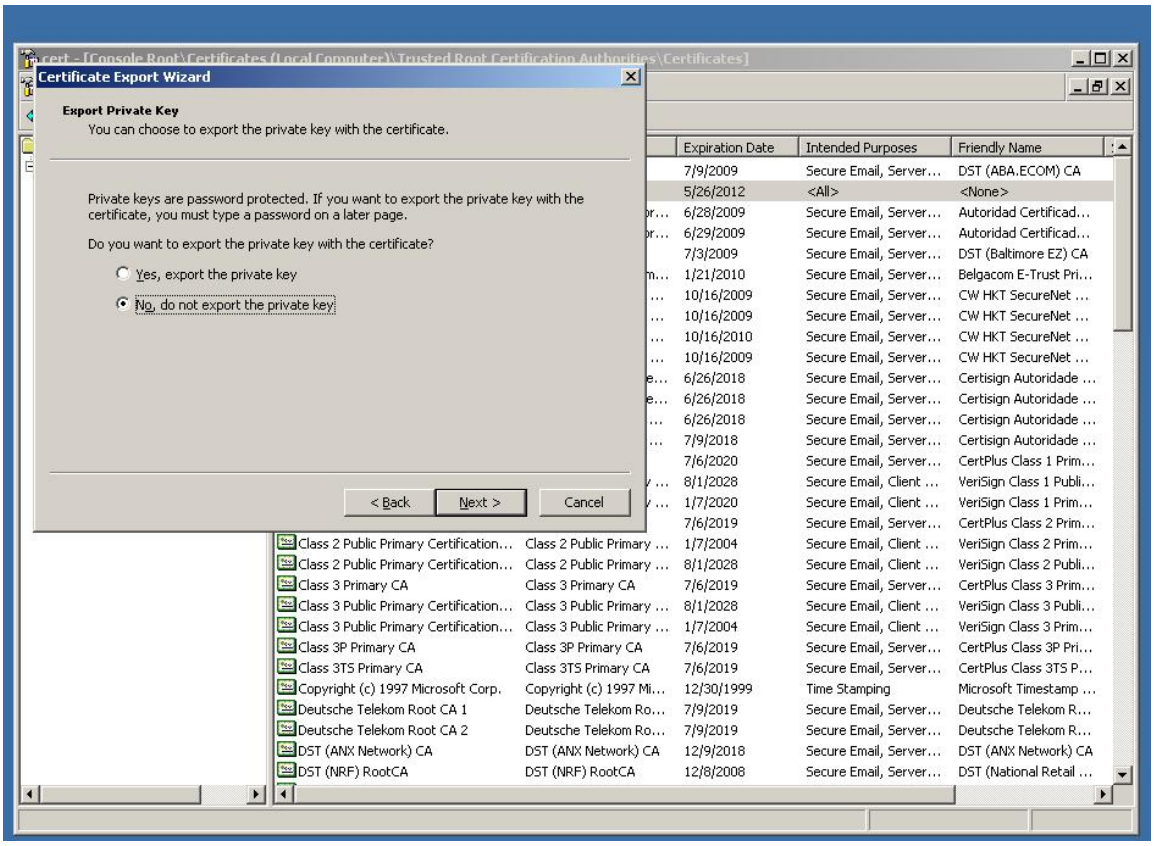


iv. Under the Trusted Root Cert Auth. find your Cert. This was created during the install of the MS Cert Server.

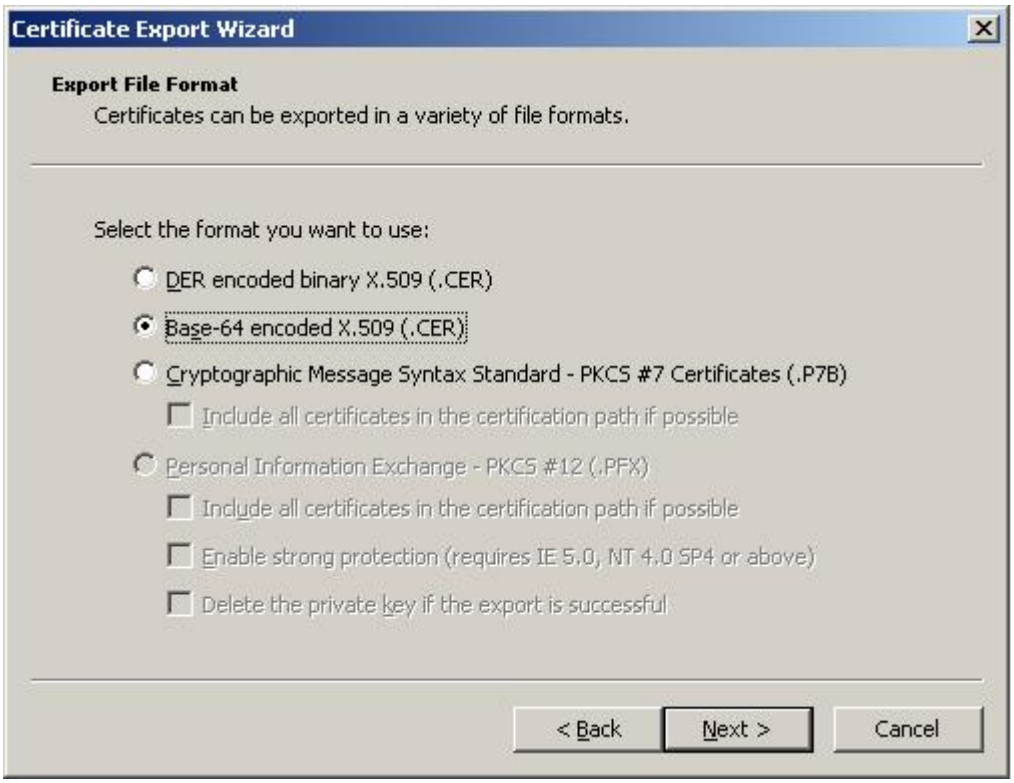
v. Right click on it to export it



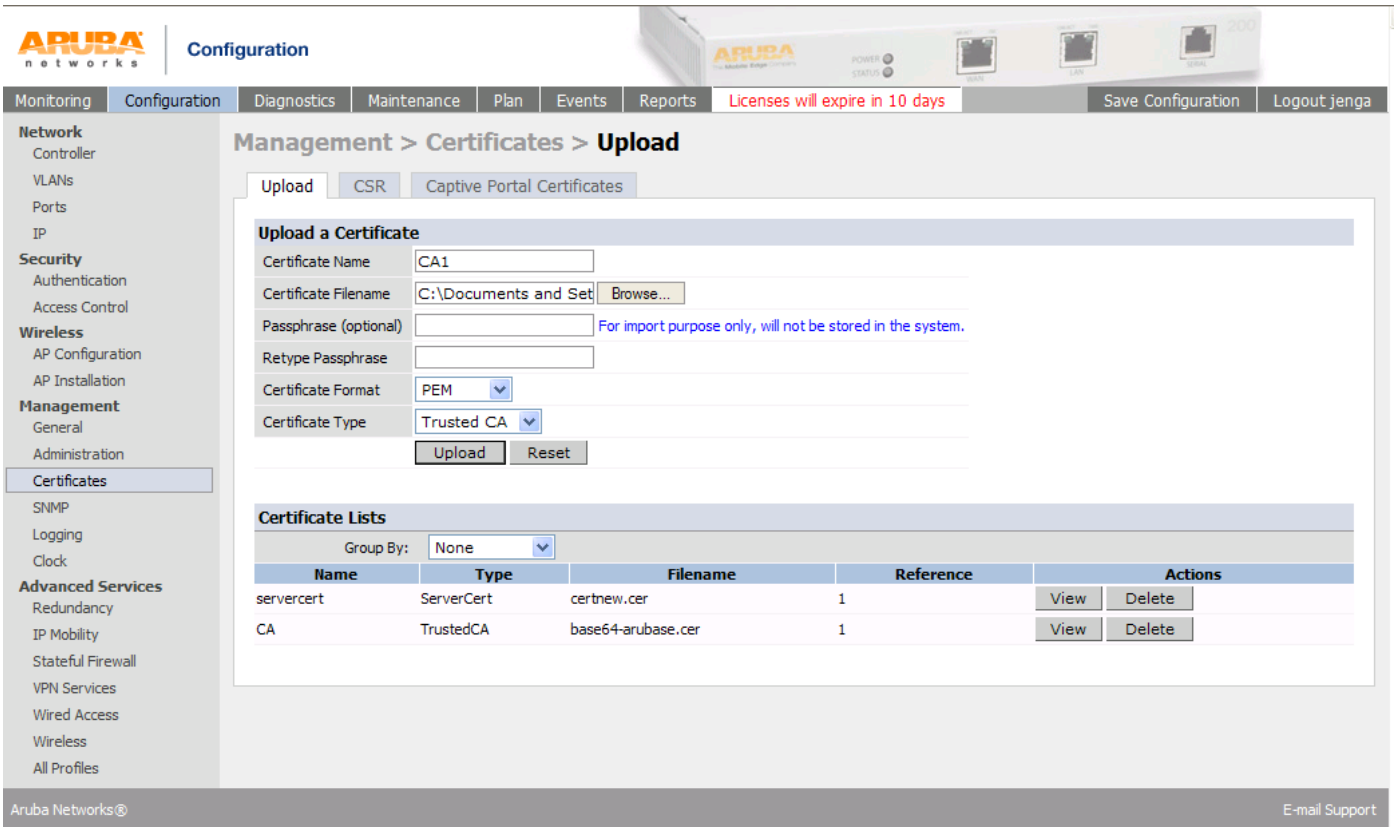
vi. Export without the private key



vii. Base-64 encoded X.509 format. Again name it with a name so that you know it is the CA Cert.



viii. Upload the TrustedCA to the Aruba Controller.
    1. Cert format is PEM
    2. Cert Type is Trusted CA



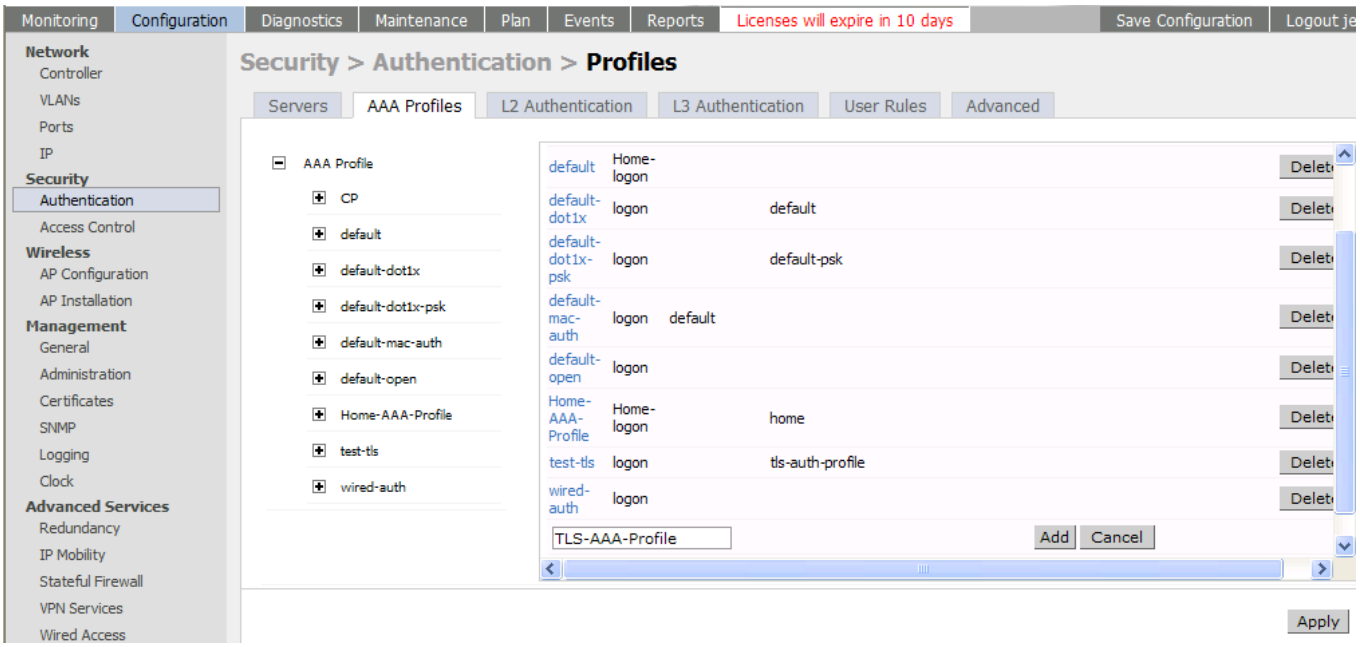
2. Controller Authentication Configuration

a. Configure TLS AAA Profile

i. Go to *Configuration > Security > Authentication >* Profiles

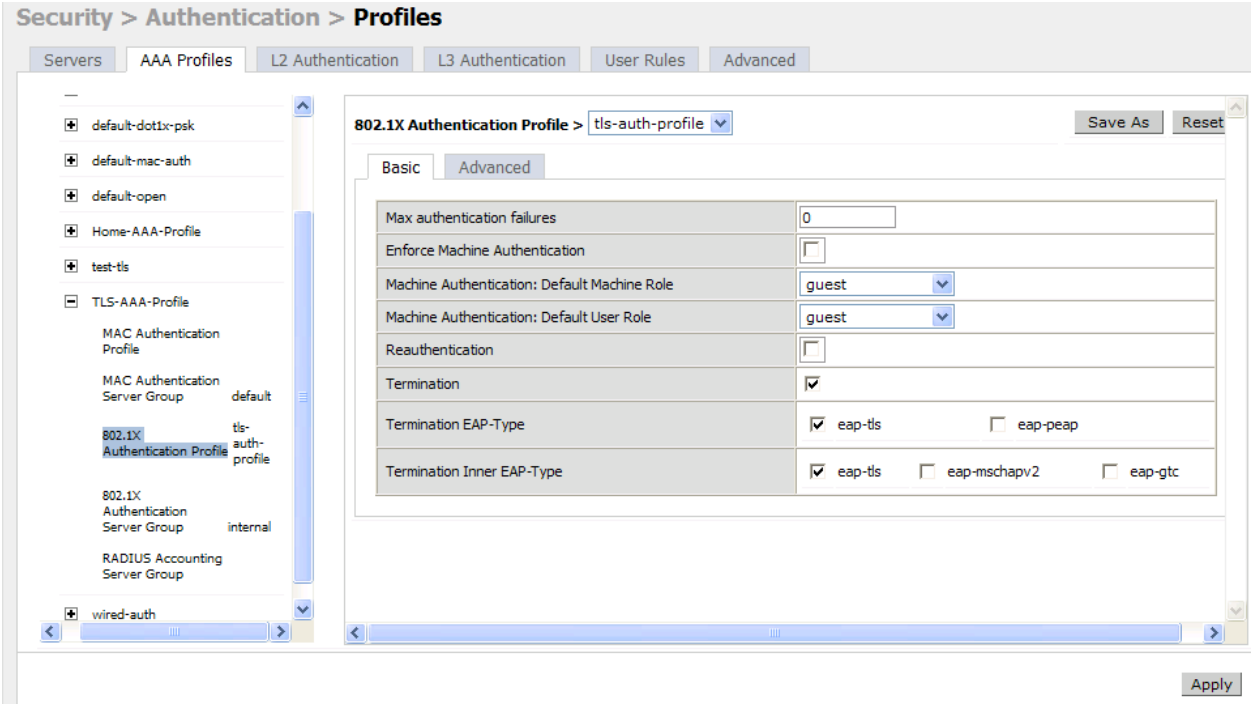
ii. Click on add at the bottom and create a new AAA Profile

iii. Chose the Initial and Default role you want to use



b. 802.1X Authentication Profile

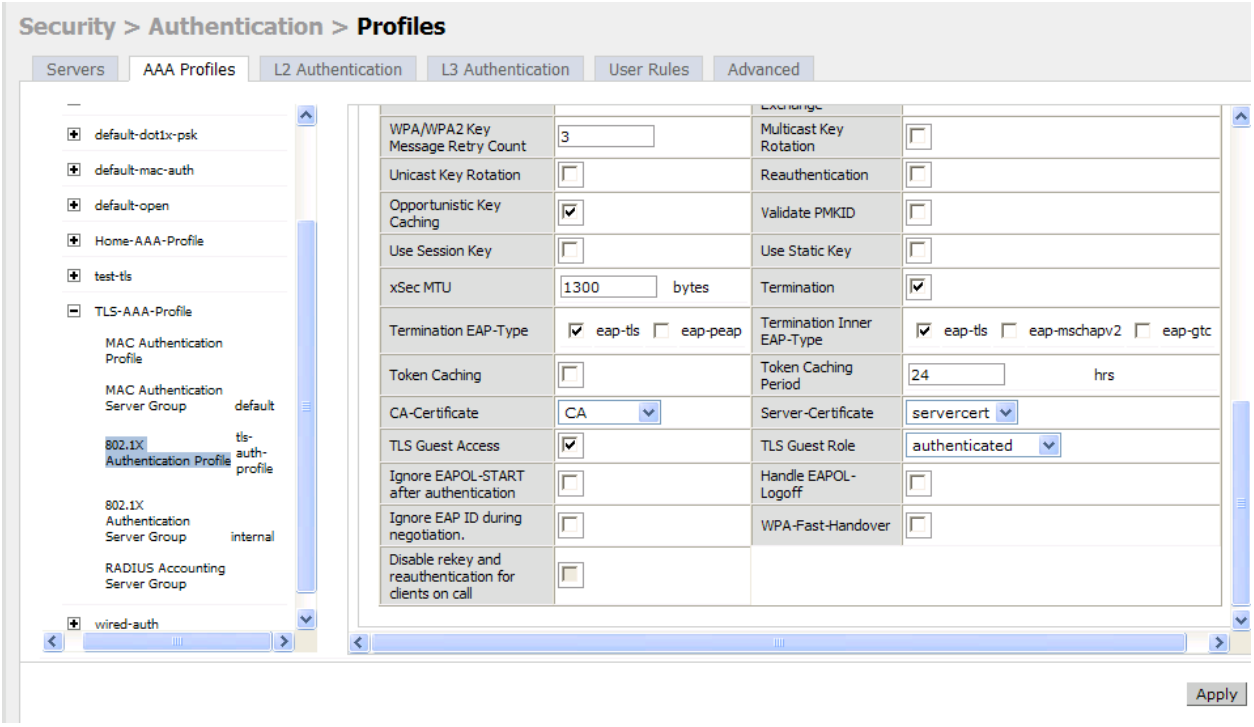
   i. Create a new 802.1x auth profile
   ii. Enable Termination
   iii. EAP-Type – eap-tls
   iv. Inner EAP-Type – eap-tls
   v. Make sure you Apply before the next step



vi. Go into the Advanced tab

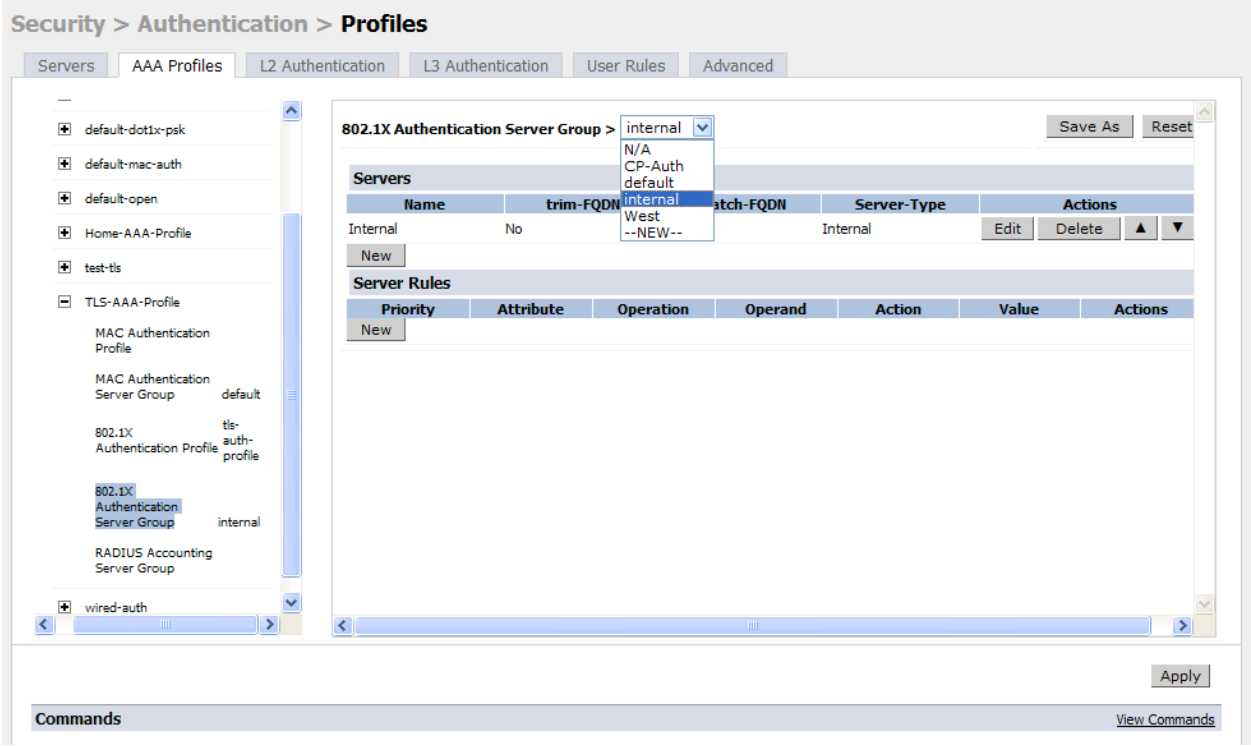
vii. Select your CA Cert and your Server Cert

viii. If you want a cert based login you will need select TLS Guest Access and a TLS Guest Role. If you do not select this option you will need to tie in some type of Auth Server



c. 802.1X Authentication Server Group

i. Select the internal server as the Auth Server Group. I don't understand why this is required for Guest TLS but it is. You do not need any usernames or passwords for Guest TLS.

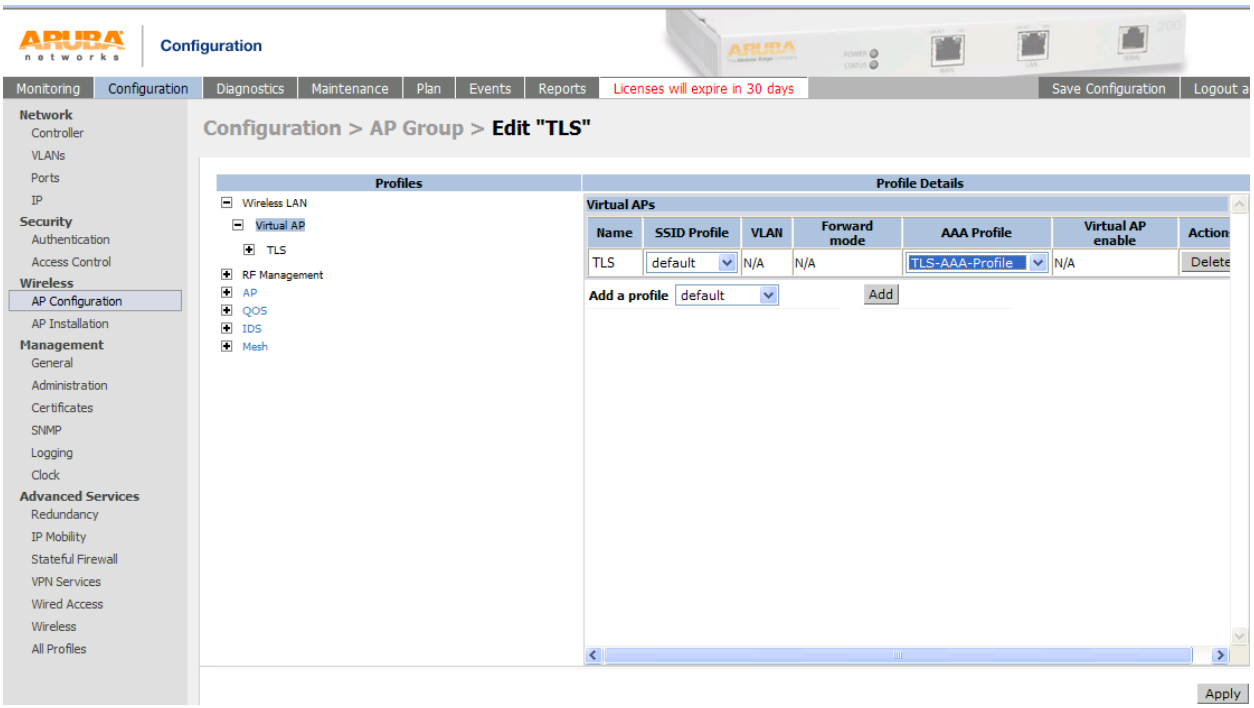


3. AP Configuration

a. Add TLS Virtual AP

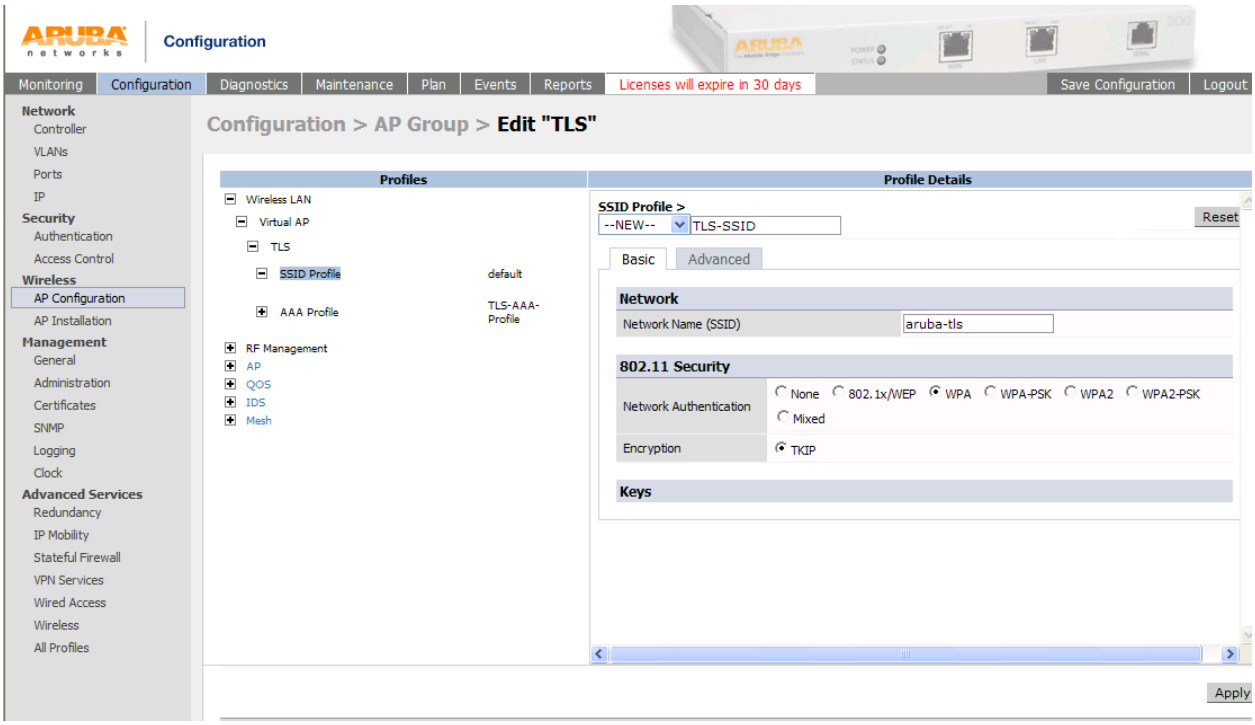
b. under Configuration > AP Group > - add a SSID

c. From the AAA Profile drop down menu select the TLS profile and apply

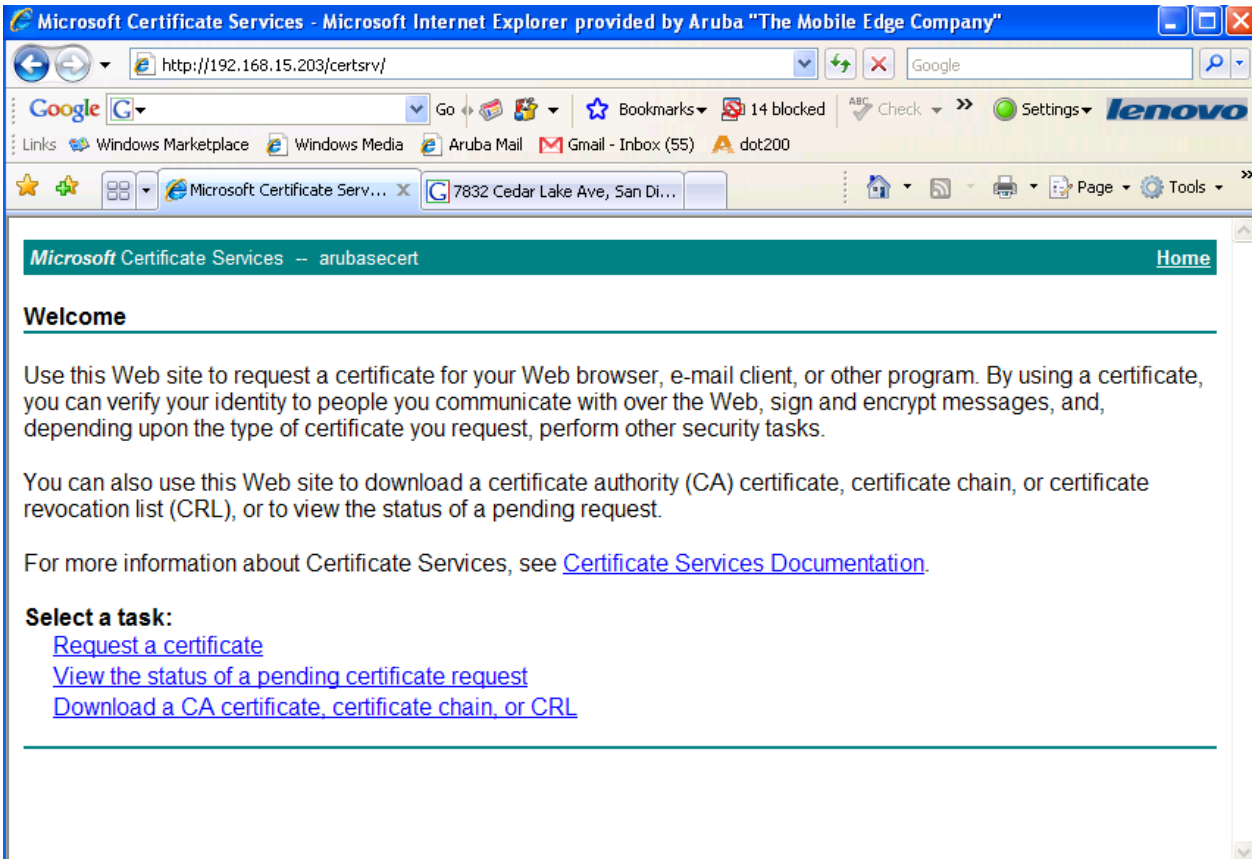


d. Go into the new virtual AP and edit the SSID profile
e. Add a SSID name
f. Select WPA and TKIP or WPA2 and AES
g. Click on save as at the top right and give it a name.
h. Apply

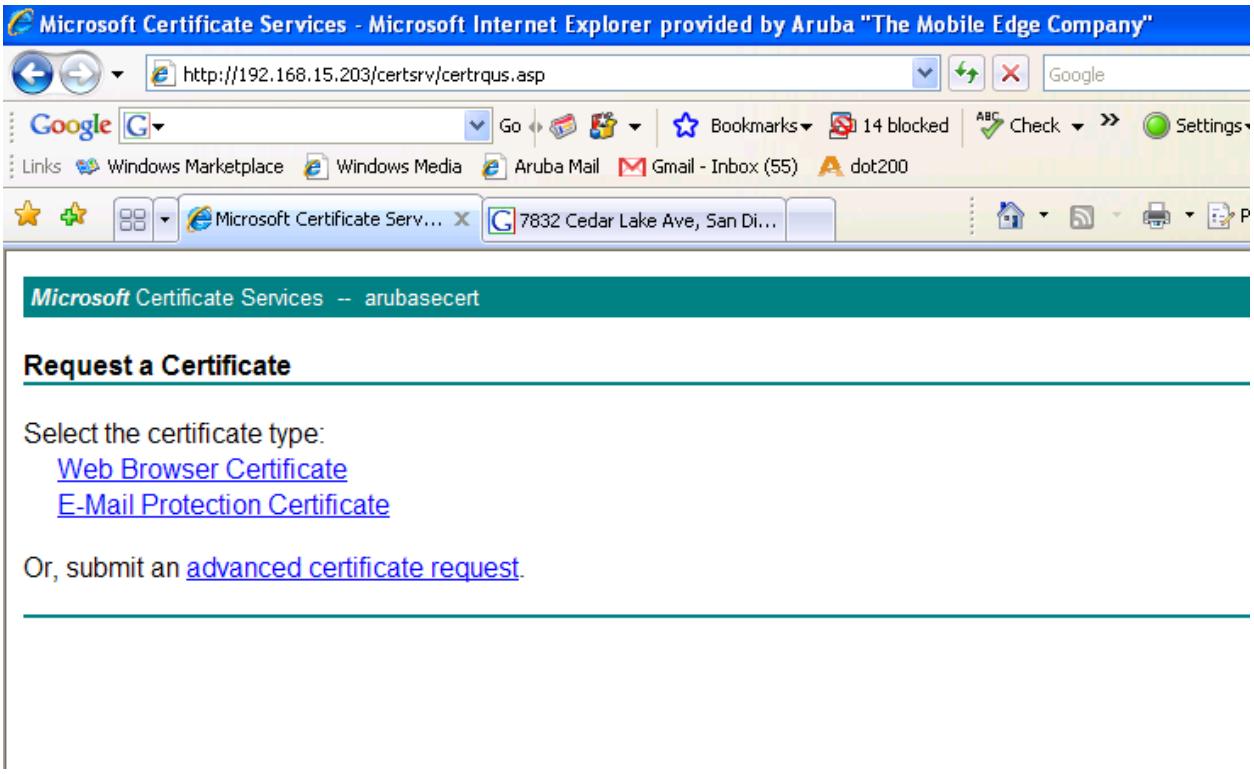
Note: do not edit the default



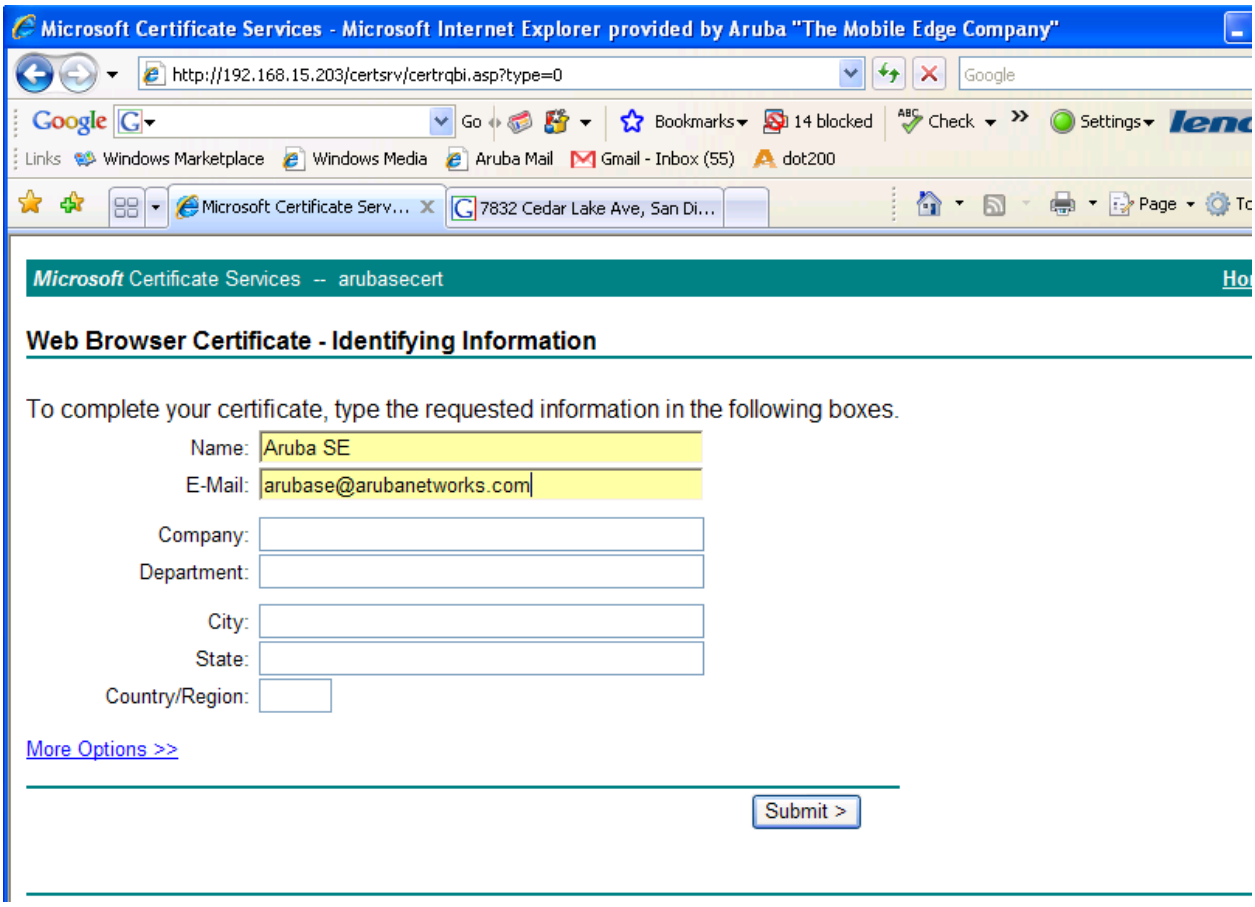
4. Client Configuration
    a. From you client web surf to your cert server http://x.x.x.x/certsrv
    b. Click on Request a certificate



c. Select Web Browser Certificate



d. Fill in form
e. Submit



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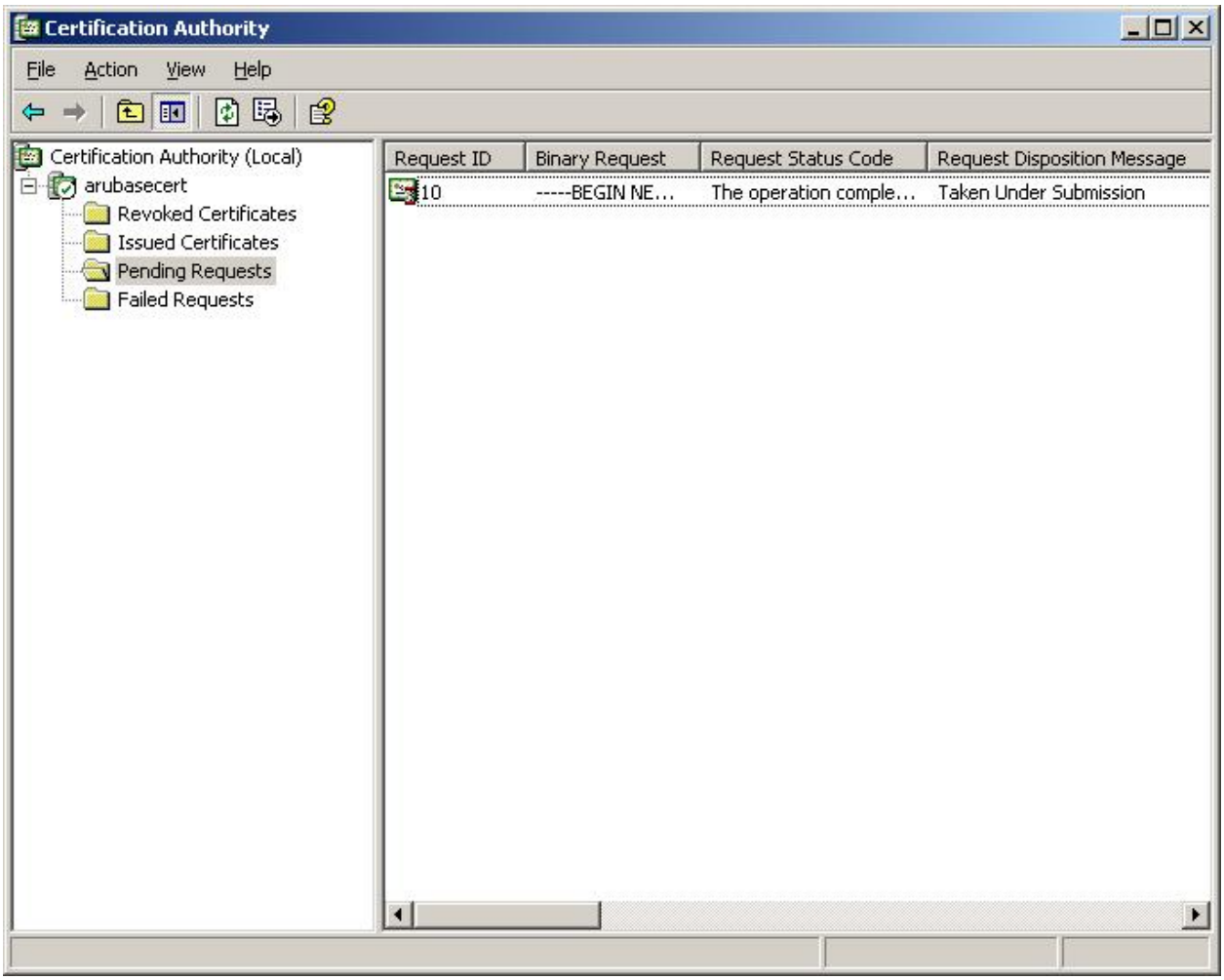
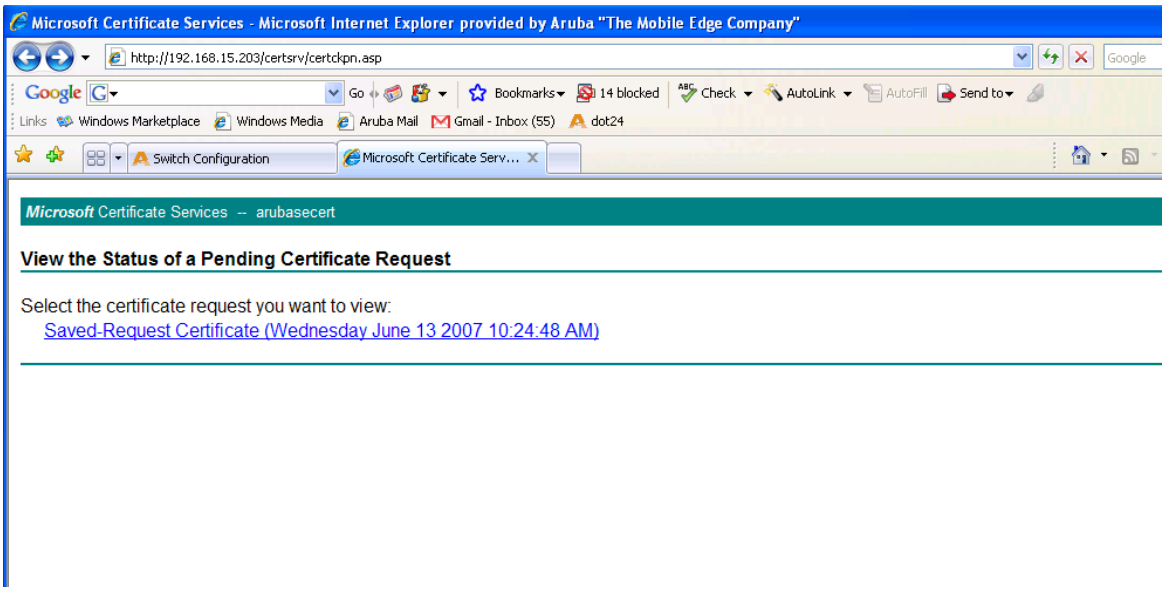


ii. You will now be able to web surf back to http://x.x.x.x/certsrv and install your cert.


Microsoft Certificate Services - Microsoft Internet Explorer provided by Aruba "The Mobile Edge Company"
http://192.168.15.203/certsrv/certckpn.asp
Google
Go
Bookmarks
14 blocked
Check
AutoLink
AutoFill
Send to
Links
Windows Marketplace
Windows Media
Aruba Mail
Gmail - Inbox (55)
dot24
Switch Configuration
Microsoft Certificate Serv...
Microsoft Certificate Services -- arubasecert
View the Status of a Pending Certificate Request
Select the certificate request you want to view:
Saved-Request Certificate (Wednesday June 13 2007 10:24:48 AM)