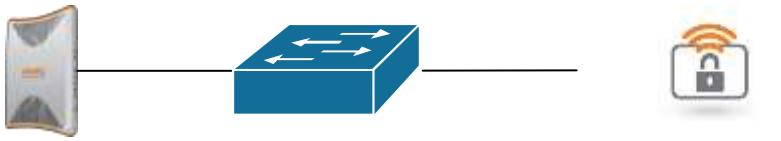
Cloudpath and Aruba Instant Integration

This document describes the process to use Ruckus Cloudpath to secure an Aruba Instant network. The following versions were used for this example:

- Ruckus Cloudpath 5.1.3483
- Aruba RAP-3WN-US
    - OS Version 6.4.4.8-4.2.4.6_58505

Network Diagram:



Aruba RAP-3WN Cloudpath

You will need to have the Aruba Instant basic configuration complete before you begin this process (IP Address of Controller, additional APs added, username and password, etc.)

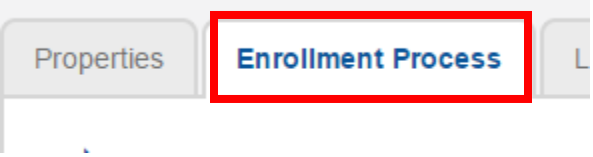
For this example, we will create and Onboarding SSID for clients to receive their certificate from Cloudpath and a secure SSID for the client to be moved to after they receive their certificate. We will also create a workflow in Cloudpath to authenticate a user from AD and issue them a certificate to be authenticated with.

<u>On Ruckus Cloudpath:</u>

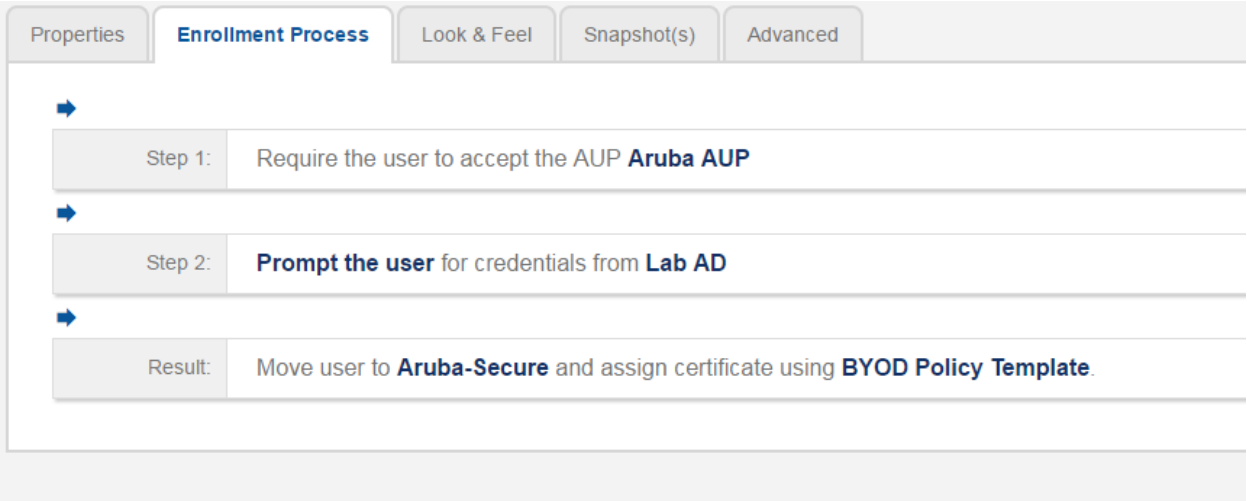
Go to Configurations -> Workflows

Note: *For this example, I have created a dedicated workflow for this Aruba example. This is not necessary if it is your only network to authenticate for.*

Select your Workflow and go to Enrollment Process Tab



Here is what our workflow looks like for this example. Please refer to the Cloudpath configuration guide for a through description of workflow creation.

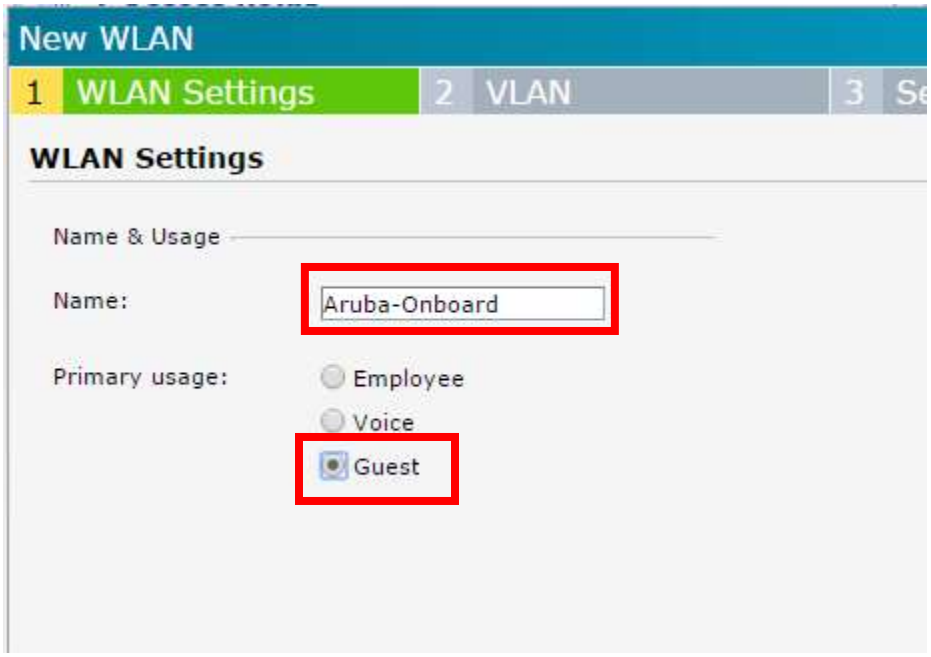


On the Aruba Instant Controller:

Create the Onboarding SSID

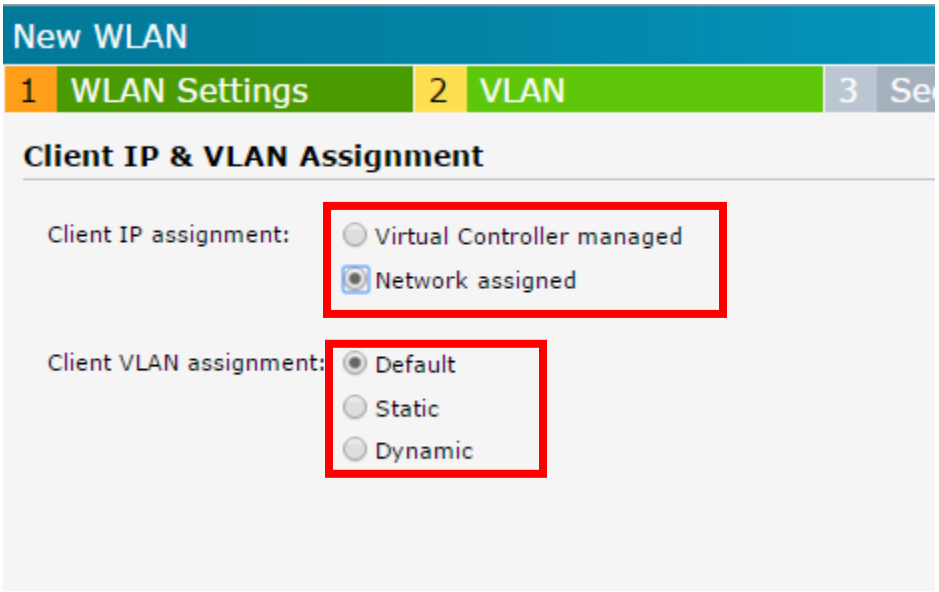
Select New under Networks.

Name the SSID and select Guest as the Primary Usage. Click Next

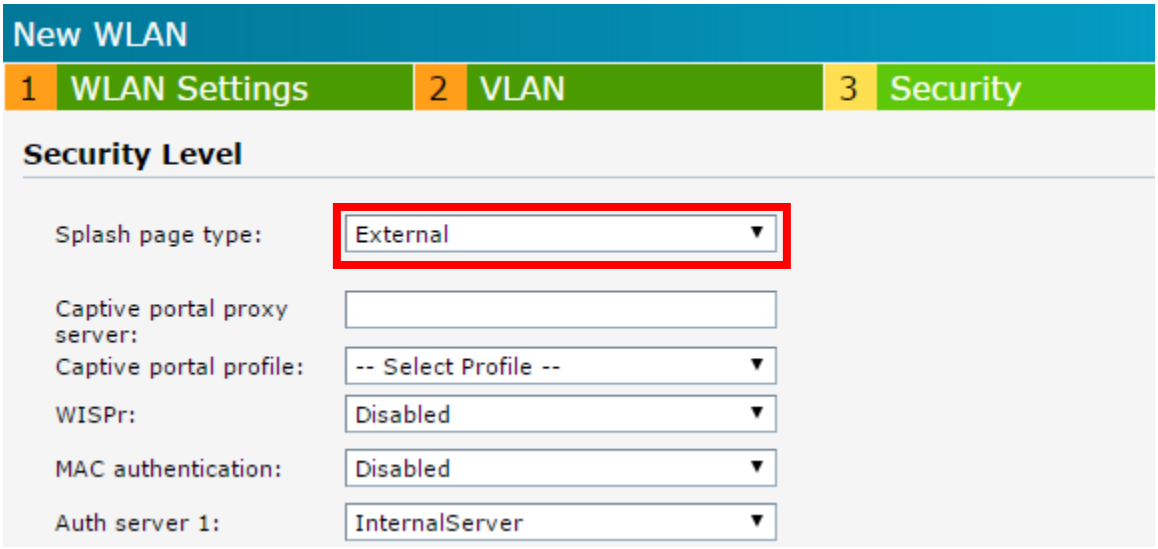


Select Client IP Assignment and Client VLAN assignment to match your network requirements. We are going to use Network assigned and the default VLAN.

Click Next.

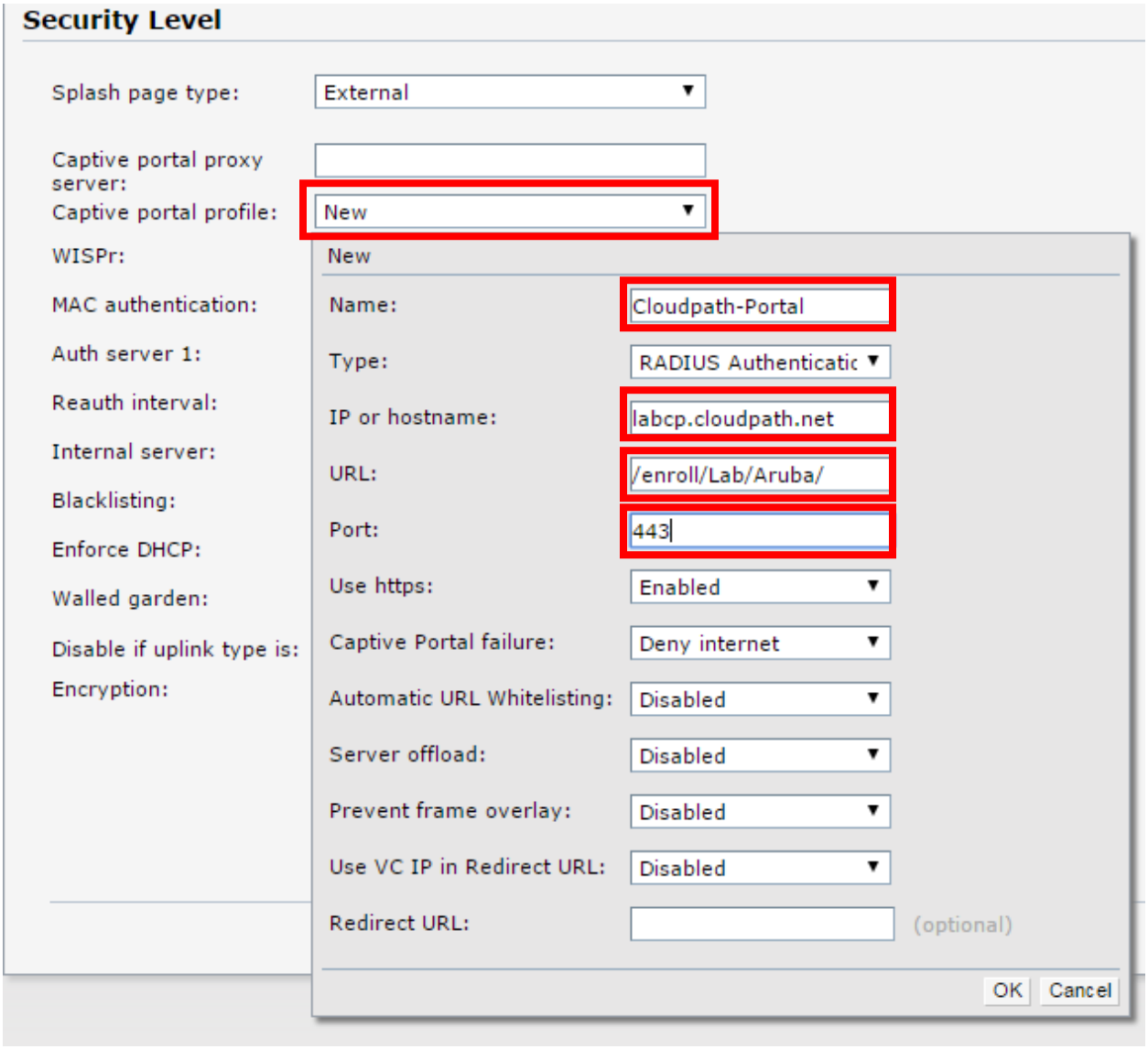


Select External from the Splash page type drop down menu.



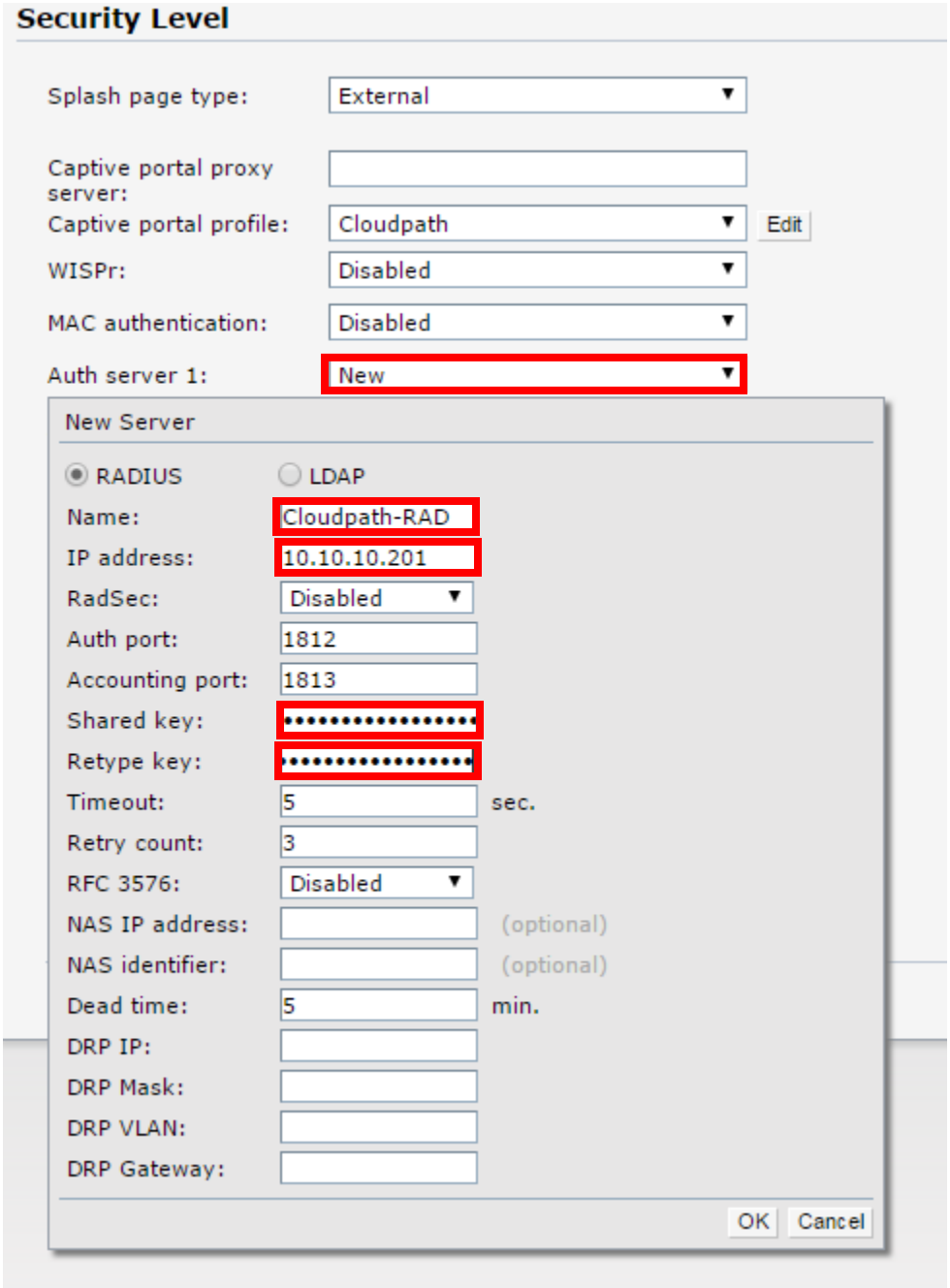
Select New from the Captive portal profile drop down menu. Complete the boxes highlighted in the New Profile Box. Click OK

Note: *The Hostname or IP is of the Cloudpath Server and the URL is from the Cloudpath Workflow Enrollment Portal URL.*

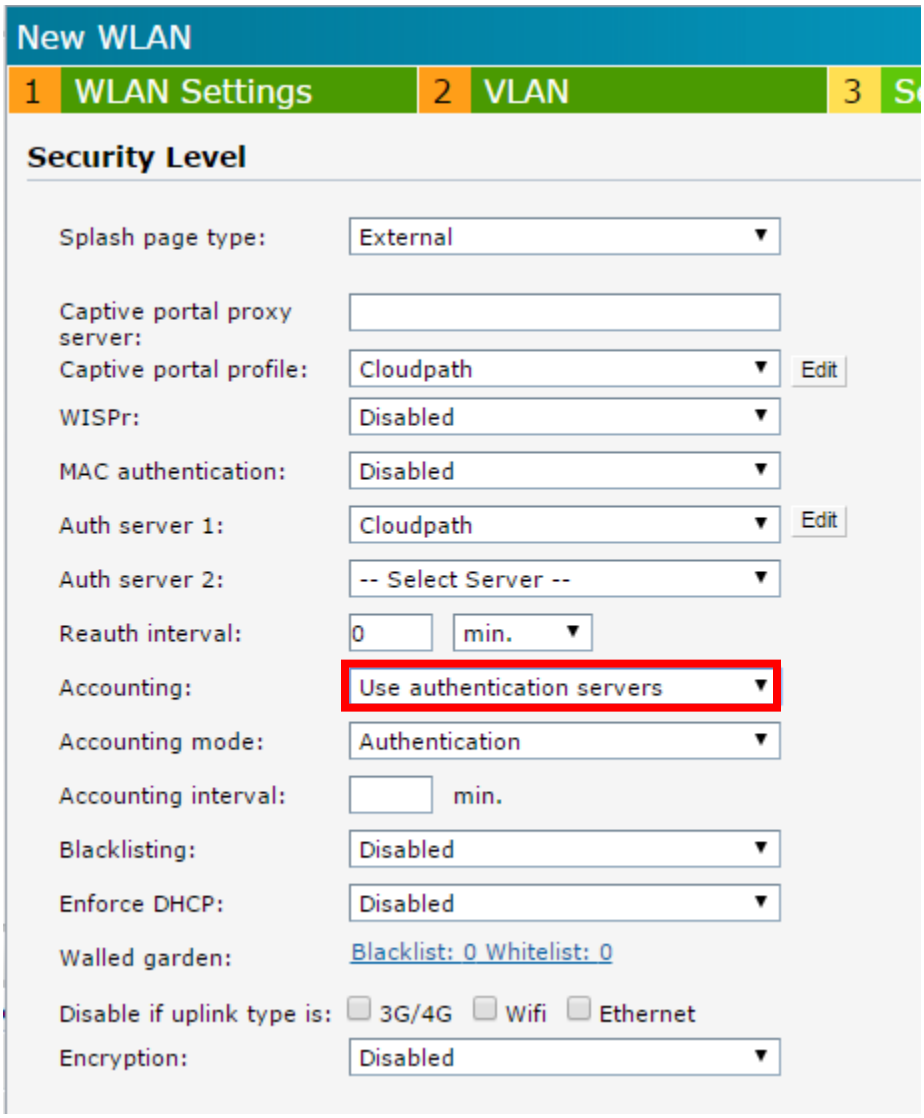


Select New from the Auth server 1 drop down menu. Complete the boxes highlighted in the New Profile Box. Click OK.

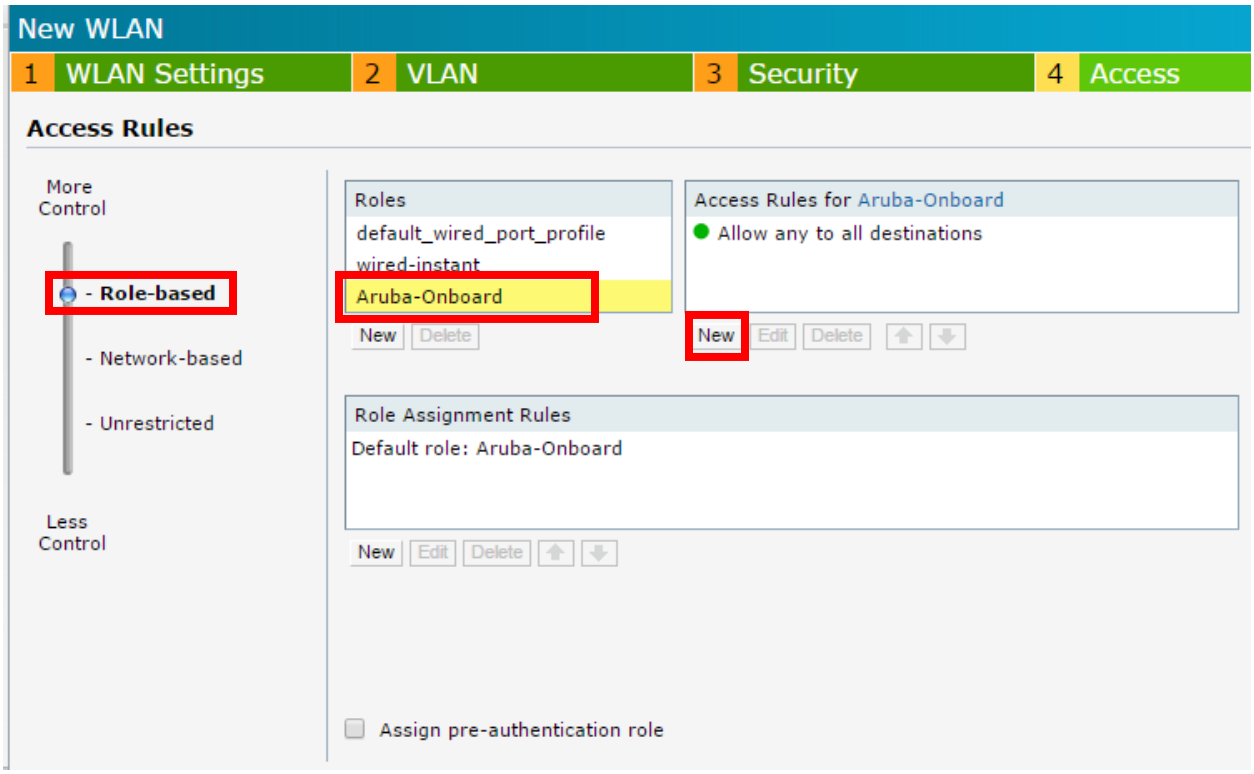
Note: *The below information can be found in Cloudpath under Configuration -> Radius Server*



Select Use authentication servers under the Accounting drop-down menu. Leave the rest at the default values and select Next.

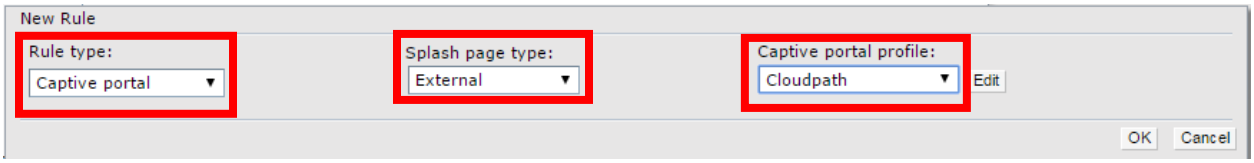


On the Access Rules Screen, select Role-based on the slider and under Roles Select the Onboarding SSID name you are creating. Under Access Rules, select New.

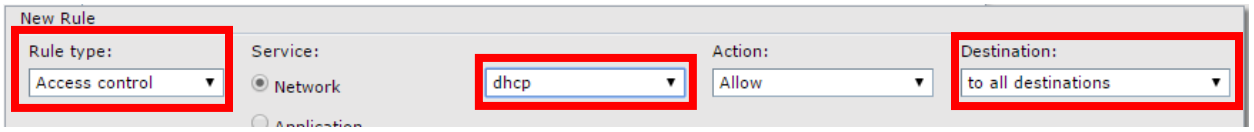


On the New Access Rule Box, create the following rules:

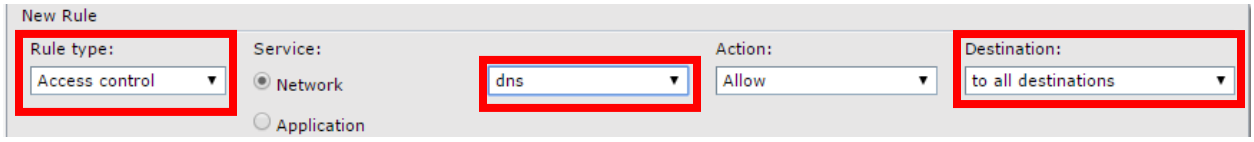
Captive Portal – External – Portal Profile you created



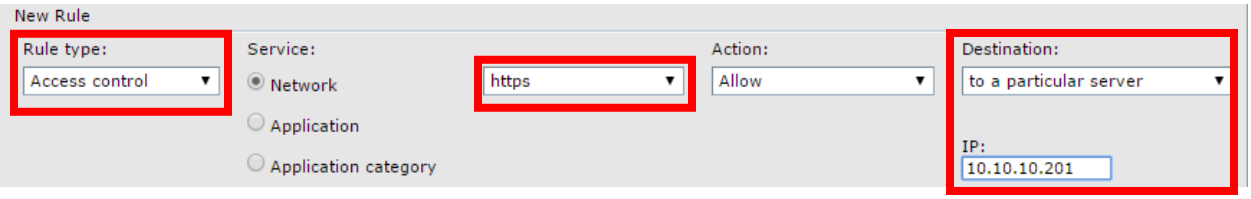
Access control – Network – dhcp – Allow – to all destinations



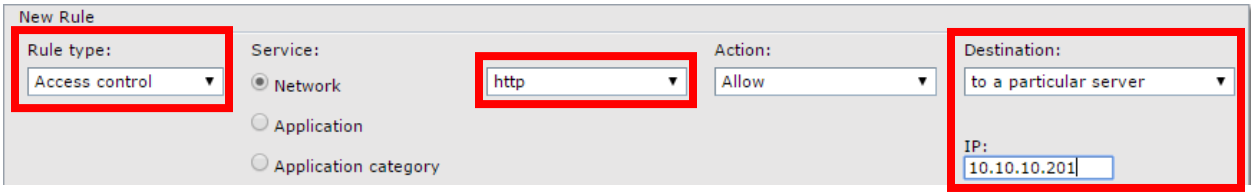
Access control – Network – dns – Allow – to all destinations



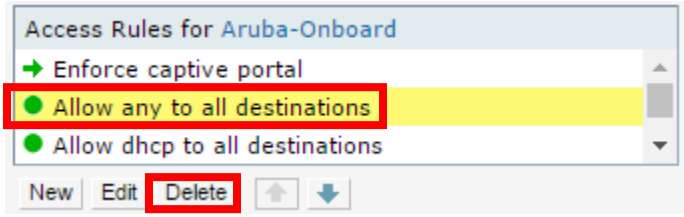
Access control – Network – https – Allow – to a particular destination - Cloudpath Server IP



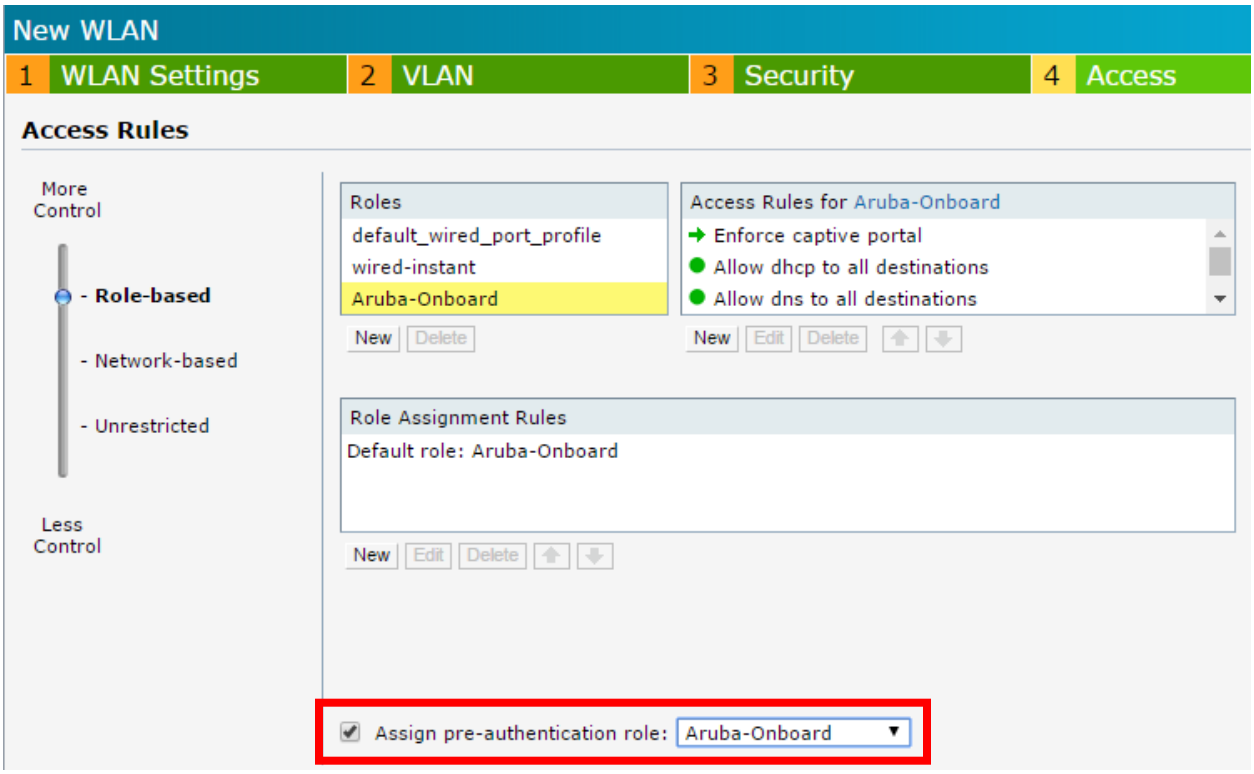
Access control – Network – http – Allow – to a particular destination - Cloudpath Server IP



Delete the rule for Allow any to all destinations:



Select Assign pre-authentication role checkbox and choose the Onboarding SSID you are creating from the drop-down menu. Select Finish.



<u>Create the Onboarding SSID</u>

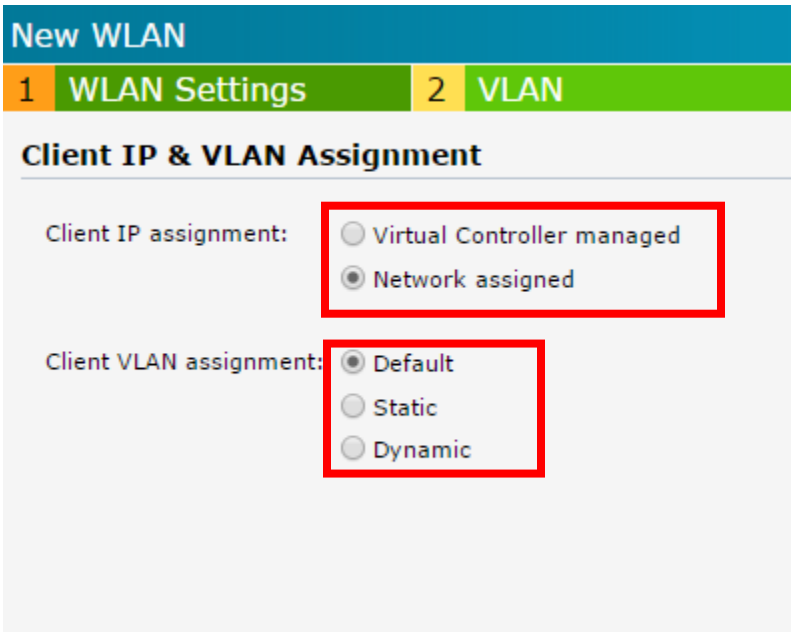
Select New under Networks.

In the New WLAN Box, Name the SSID and select Employee for the Primary usage.

Click Next.

Select Client IP Assignment and Client VLAN assignment to match your network requirements. We are going to use Network assigned and the default VLAN.

Click Next.



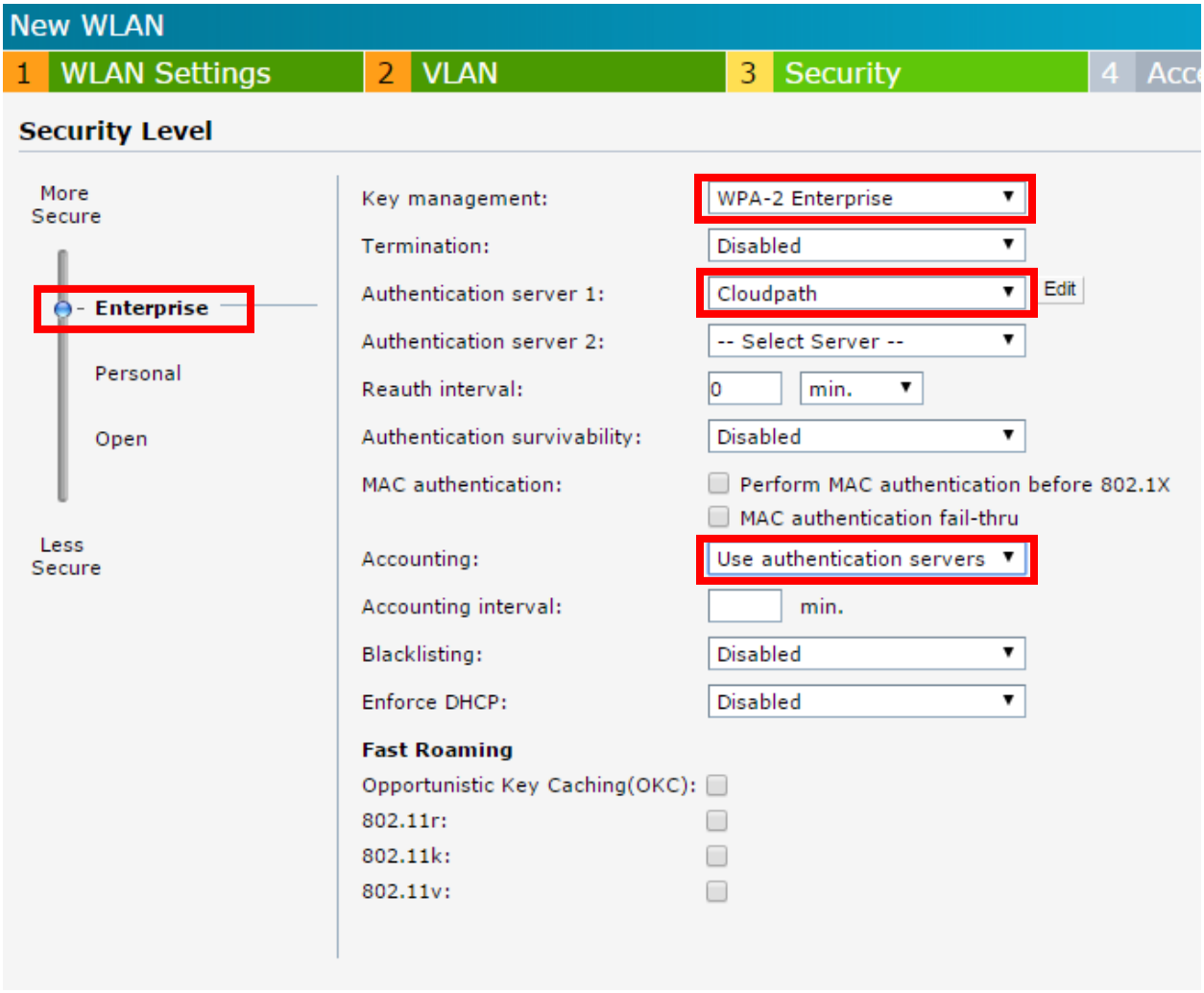
Select Enterprise on the Security Level slider.

Select WPA-2 Enterprise from the Key Management drop-down menu.

Select the Authentication Server you created earlier under Authentication server 1.

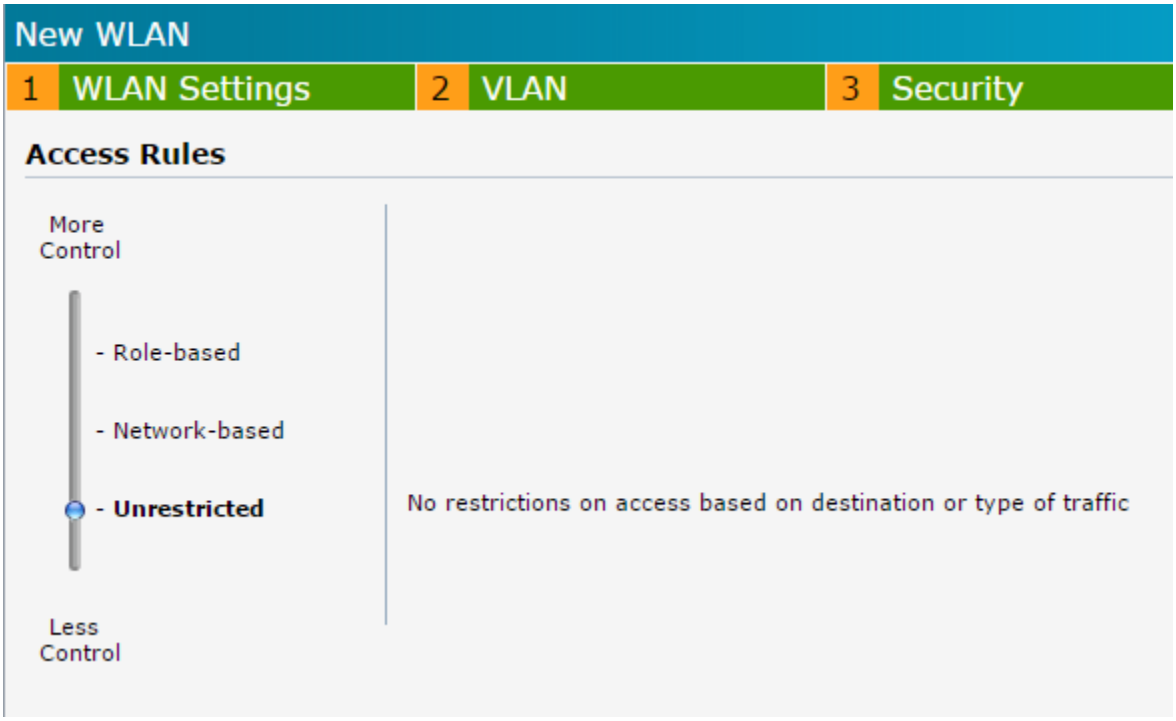
Select Use authentication servers under Accounting.

Note: *These settings can be changed to fit your network requirements.*



Leave the defaults and click Finish.

Note: *These settings can be changed to fit your network requirements.*



Now you are ready to Onboard clients.