# Lab 8.6.6: Hardening a Ruckus AP Wireless LAN Controller

From TestOut CompTIA Security+ Course

In this lab I will be configuring security settings for a Ruckus WLC (Wireless/WiFi LAN Controller) in order to harden (i.e. increase security) it from attacks from unauthorized devices as well as restricting content for end-users.

#### The scenario for this lab is as follows:

"You are a network technician for a small corporate network. You need to increase the security of your wireless network. Your new wireless controller provides several security features that you want to implement.

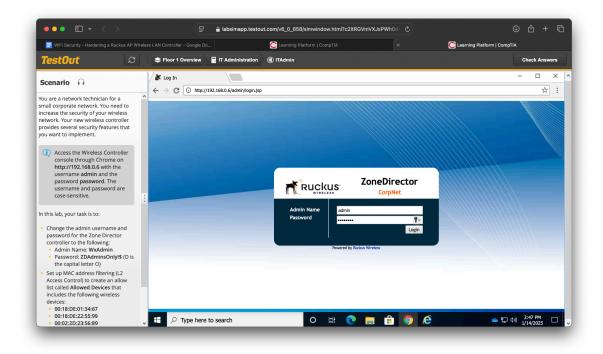
Access the Wireless Controller console through Chrome on http://192.168.0.6 with the username admin and the password password. The username and password are case-sensitive.

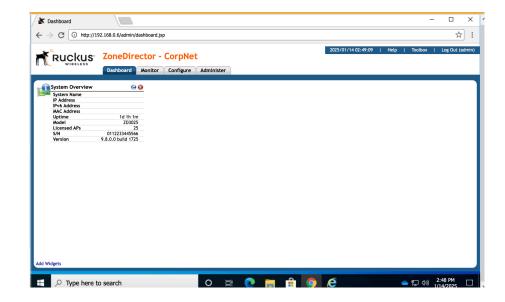
In this lab, your task is to:

- Change the admin username and password for the Zone Director controller to the following:
  - Admin Name: WxAdmin
  - Password: ZDAdminsOnly!\$ (O is the capital letter O)
- Set up MAC address filtering (L2 Access Control) to create an allow list called Allowed Devices that includes the following wireless devices:
  - 00:18:DE:01:34:6700:18:DE:22:55:99
  - o 00:02:2D:23:56:89
  - o 00:02:2D:44:66:88
- Implement a device access policy called NoGames that blocks gaming consoles from the wireless network."

To start this I'll need to log in to the Ruckus Controller. Note that the lab says that the controller is using the default credentials. The good thing is that our first task is to change these credentials, which is something that would be done in the first

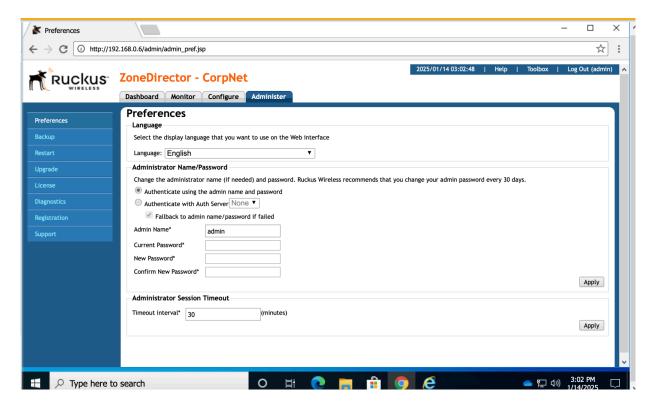
place before it's even deployed to a corporate network (good thing this is a hypothetical lab!).





Now that I'm logged in, my first task as stated above is to change the credentials for this Ruckus WLAN Controller. To do that I will head to the **Administer** tab at the top menu bar next to **Dashboard** (where I'm currently at).

## Clicking Administer brings up the following page:



This is the page I can enter the new login credentials. The Lab wants me to change it to:

o Admin Name: WxAdmin

Password: ZDAdminsOnly!\$ (O is the capital letter O)

I'll do that now:

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Preferences		
Language		
Select the display langua	age that you want to use on the Web interface	
Language: English	▼	
Administrator Name/P	Password	
Change the administrato	or name (if needed) and password. Ruckus Wireless recommends that you change your admin password every 30 days.	
• Authenticate using t	he admin name and password	
Authenticate with Au	uth Server None ▼	
Fallback to admi	in name/password if failed	
Admin Name*	WxAdmin	
Current Password*	•••••	
New Password*	••••••	
Confirm New Password*	••••••••••••••••••••••••••••••••••••••	
		Apply

After clicking **Apply** I see that the changes were successfully applied. Now that I have changed the credentials I'll move on to the next part of the lab.

The next part of this lab is for me to setup MAC Address Filtering (aka Layer 2 Filtering) so that we only allow certain devices access to the WLAN.

On this Ruckus Controller I will need to go to the **Configure** tab at the same top menu where I accessed this **Administer** tab to change the credentials.

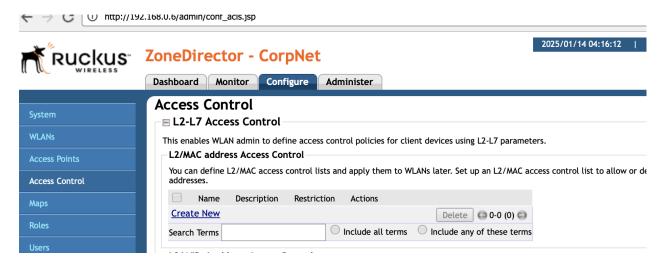


Now that I'm on the **Configure** page, I'll head to the left menu pane and select **Access Control**:

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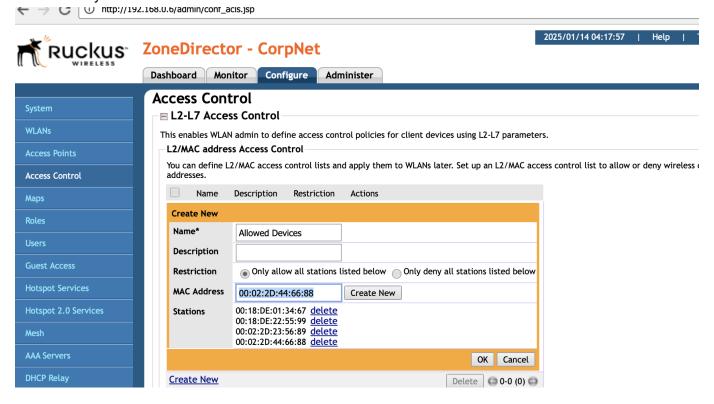
Once here, I'll click the Plus button to expand the **L2-L7 Access Control** menu.



To create a new list I will hit the **Create New** button. On the menu that pops up it prompts me to enter a new name for this Access Control list. The Lab has asked us to name this list **Allowed Devices**. Once I enter the name I will go ahead and begin entering the 4 MAC Addresses of the allowed devices:

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Now that I have all 4 devices' MAC Addresses entered I will click the **OK button** to apply the changes.

Moving on to the next part of the lab, I now need to create an Access Policy to restrict traffic from Game consoles:

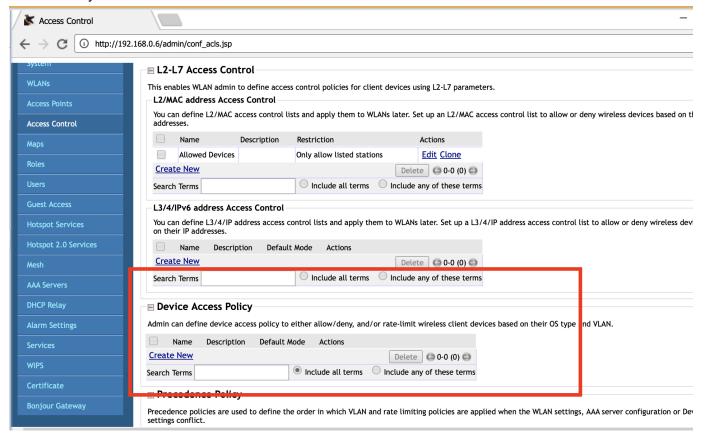
 Implement a device access policy called NoGames that blocks gaming consoles from the wireless network.

On this same **Configure > Access Control** menu, I can scroll down to **Device Access Policy**:

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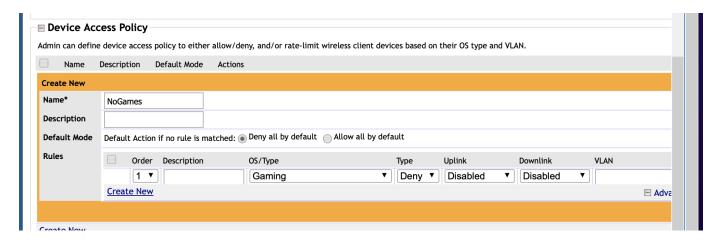
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Once here I'll click Create New.

The Lab has asked us to name this policy "NoGames." I'll enter that , then in the drop down menu for OS, I'll select "Gaming."



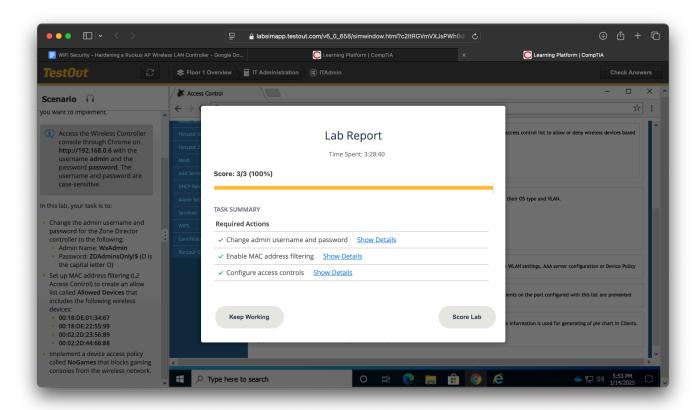
I'll also need to ensure that the **Type** is set to **Deny**, and that the Uplink and Downlink are also **Disabled**.

After I enter all the rules I will click Save then OK.

### At this point I have completed all tasks for this lab which are:

- Change the admin username and password for the Zone Director controller to the following:
  - Admin Name: WxAdmin
  - Password: ZDAdminsOnly!\$ (O is the capital letter O)
- Set up MAC address filtering (L2 Access Control) to create an allow list called Allowed Devices that includes the following wireless devices:
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  - o 00:18:DE:22:55:99
  - o 00:02:2D:23:56:89
  - o 00:02:2D:44:66:88
- Implement a device access policy called NoGames that blocks gaming consoles from the wireless network.

This now concludes this lab on hardening a Ruckus WLAN Controller!



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