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## Wi-Fi AP Authentication Aerohive Configuration

<https://campus.barracuda.com/doc/23338/>

To authenticate users connected to Aerohive access points, you must stream the syslog containing the authentication data to the Barracuda CloudGen Firewall F-Series.

### Reference Devices/Versions:

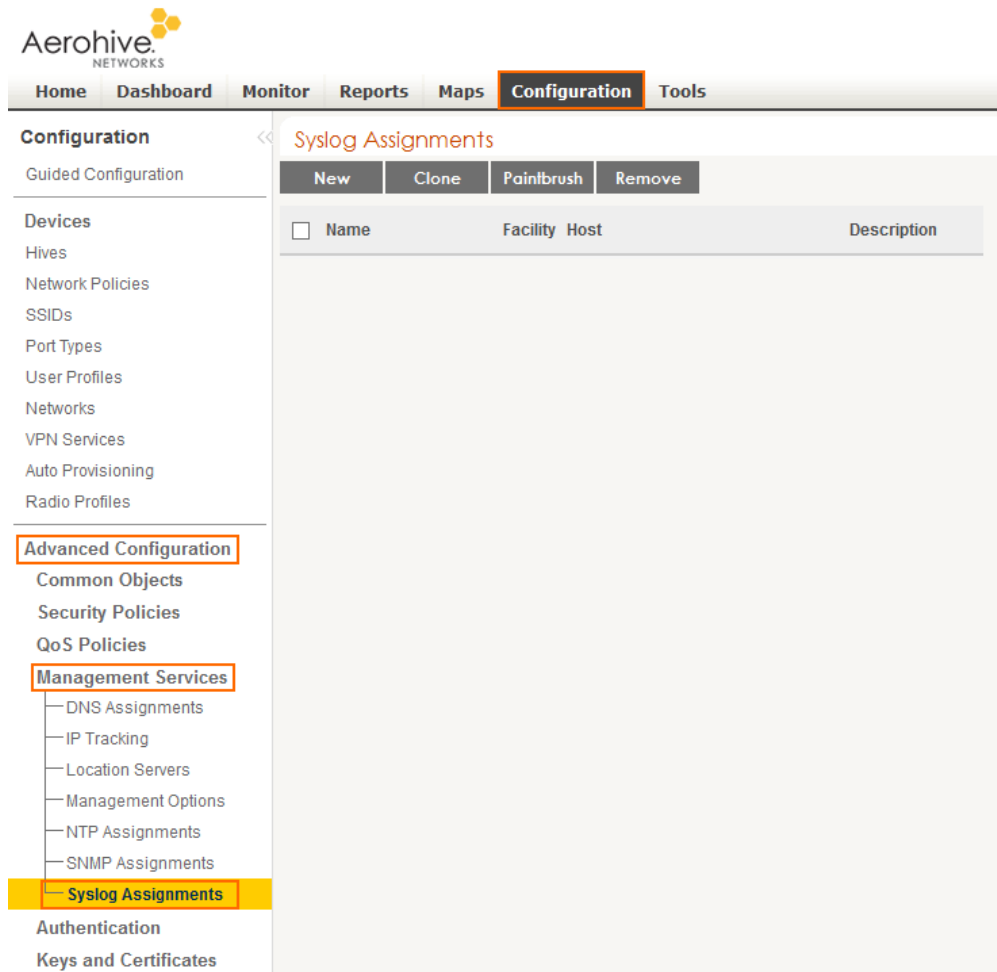
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- Aerohive AP230 802.11ac Wireless AP Version 6.4r1a
- Aerohive Networks HiveManager Online 6.4r1

### Step 1. Enable Syslog Streaming on the Aerohive AP

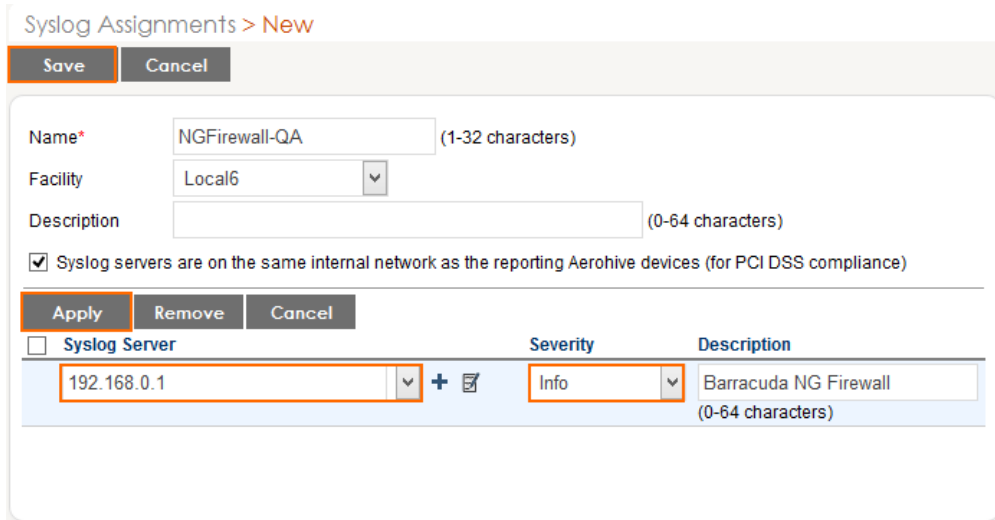
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1. Log into the Aerohive Networks HiveManager.
2. Go to **Configuration > Advanced Configuration > Management Services > Syslog Assignments**.



The screenshot shows the Aerohive Networks Configuration interface. The left sidebar contains a menu with categories: Configuration, Devices, and Advanced Configuration. Under Configuration, there are links for Guided Configuration, Devices, Hives, Network Policies, SSIDs, Port Types, User Profiles, Networks, VPN Services, Auto Provisioning, and Radio Profiles. Under Advanced Configuration, there are links for Common Objects, Security Policies, QoS Policies, Management Services, and Syslog Assignments. The Syslog Assignments link is highlighted in yellow. The main content area shows the Syslog Assignments page with a table header: Name, Facility, Host, and Description. The table is currently empty.

3. Click **New** and configure syslog streaming:
  - **Syslog Server** - Select the IP address of the firewall from the drop down.
  - **Severity** - Select **Info** from the drop down.
4. Click **Apply**.
5. Click **Save**.

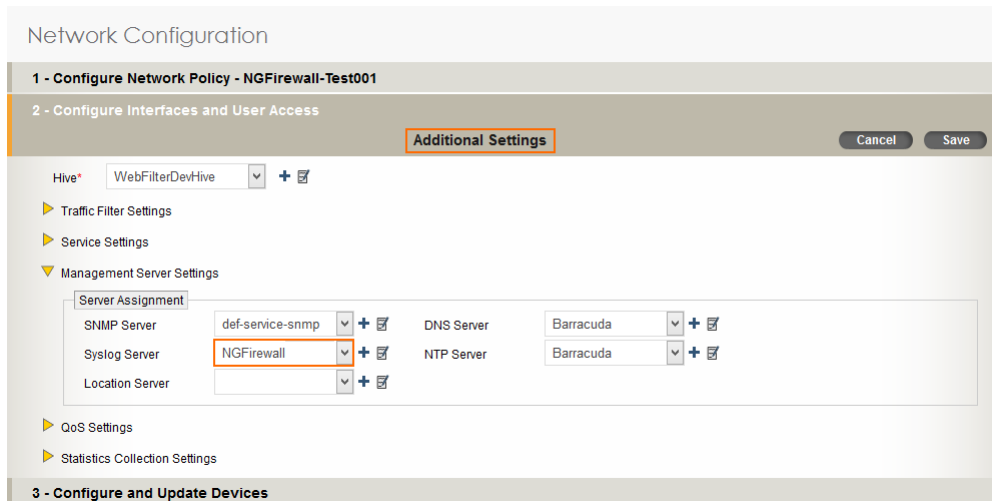


The screenshot shows the 'Syslog Assignments > New' form. It includes fields for Name (NGFirewall-QA), Facility (Local6), and Description. A checkbox is checked for 'Syslog servers are on the same internal network as the reporting Aerohive devices (for PCI DSS compliance)'. Below the form, there are buttons for Apply, Remove, and Cancel. The 'Apply' button is highlighted. Below the buttons, there is a table with columns for Syslog Server, Severity, and Description. The table contains one entry: 192.168.0.1, Info, and Barracuda NG Firewall.

Syslog Server	Severity	Description
192.168.0.1	Info	Barracuda NG Firewall

## Step 2. Add Syslog Configuration to Network Policy on the Aerohive AP

Add the syslog configuration to the **Network Policy** you are using for your access points.



The screenshot shows the 'Network Configuration' window for 'NGFirewall-Test001'. The 'Additional Settings' tab is active. Under 'Management Server Settings', the 'Server Assignment' section is expanded. The 'Syslog Server' is set to 'NGFirewall'. Other settings include 'SNMP Server' (def-service-snmp), 'DNS Server' (Barracuda), and 'NTP Server' (Barracuda). The 'Hive' dropdown is set to 'WebFilterDevHive'.

## Step 3. Create a Service Object for TCP 514 in Host Firewall

Create a service object for TCP 514. Do not use the **RCMD** service object, as the **rsh** firewall plugin.

1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > Host Firewall Rules**.
2. Click **Lock**.
3. In the left menu click **Services**.
4. Right-click the table and select **New**. The **Edit/Create Service Object** window opens.
5. Enter a **Name**.
6. Click **New Object**. The **Service Entry Parameters** window opens.
  - **IP Protocol** – Select **006 TCP**.
  - **Port Range** – Enter 514.
7. Click **OK**.
8. Click **New Object**. The **Service Entry Parameters** window opens.
  - **IP Protocol** – Select **017 UDP**.
  - **Port Range** – Enter 514.
9. Click **OK**.

Edit/Create Service Object

Name: **Aerhive Syslog**

Description:

Nr.	Ports / Ref	Plugin	Comment
01	TCP 514		
02	UDP 514		

Up Any New Reference Edit Delete

Down New Object... OK Cancel

- Click **OK**.
- Click **Send Changes** and **Activate**.

## Step 4. Create a Host Firewall Rule

Create a host firewall rule that matches incoming TCP/UDP 514 traffic without using the **rsh** firewall plugin.

1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > Host Firewall Rules**.
2. Click **Lock**.
3. Either click the plus icon (+) at the top right of the rule set, or right-click the rule set and select **New > Rule**.
4. Select **Pass** as the action.
5. Enter a **name** for the rule. For example, LAN-DMZ.
6. Specify the following settings that must be matched by the traffic to be handled by the access rule:

- **Source** - The source addresses of the traffic.
- **Destination** - The destination addresses of the traffic.
- **Service** - Select a service object, or select **Any** for this rule to match for all services.

For the example access rule displayed in the figure above, a network object named **HQ-DMZ** containing the IP address of the DMZ server has been created. For more information, see [How to Create Network Objects](#).

7. Click **OK**.
8. Drag and drop the access rule so that it is the first rule that matches the traffic that you want it

to forward. Ensure that the rule is located *above* the BLOCKALL rule; rules located below the BLOCKALL rule are never executed.

9. Click **Send Changes** and **Activate**.

## Verify that the Firewall is Receiving the Syslog Data

On the Barracuda CloudGen Firewall F-Series, go to **LOGS** and open the **Box > Control > Serviceable\_wifiap.log**. After a successful authentication, you will see a logged in user <username> with IP <IP address> line in the log. The Wi-Fi access point name is also listed.

Box\Control\AuthService\_wifiap <new Log>

Select Log File Box\Control\AuthService\_wifiap Reload Log File Tree

Time	Type	TZ	Message
2015 04 08 16:41:51	Info	+02:00	[config] reloading configuration
2015 04 08 16:41:51	Info	+02:00	[config] setting maximum login time to 0 hours
2015 04 08 16:41:51	Info	+02:00	[config] setting UDP listen port to 514
2015 04 08 16:41:51	Info	+02:00	[config] setting TCP listen port to 514
2015 04 08 16:41:51	Info	+02:00	[config] setting SSL listen port to 6514
2015 04 08 16:41:51	Info	+02:00	[config] model: aerohive
2015 04 08 16:41:51	Info	+02:00	[config] source-ip: 10.17.76.10
2015 04 08 16:41:51	Info	+02:00	[config] protocol: udp
2015 04 08 16:43:25	Info	+02:00	[auth] udp:10.17.76.10 (type aerohive): logged in user user1 with IP 192.168.200.215

## Figures

1. aerohive01.png
2. aerohive02.png
3. aerohive03.png
4. aerohive\_service\_object.png
5. wifi\_log\_message\_aerohive.png

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