

## Wi-Fi AP Authentication Aerohive Configuration

<https://campus.barracuda.com/doc/79463360/>

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:

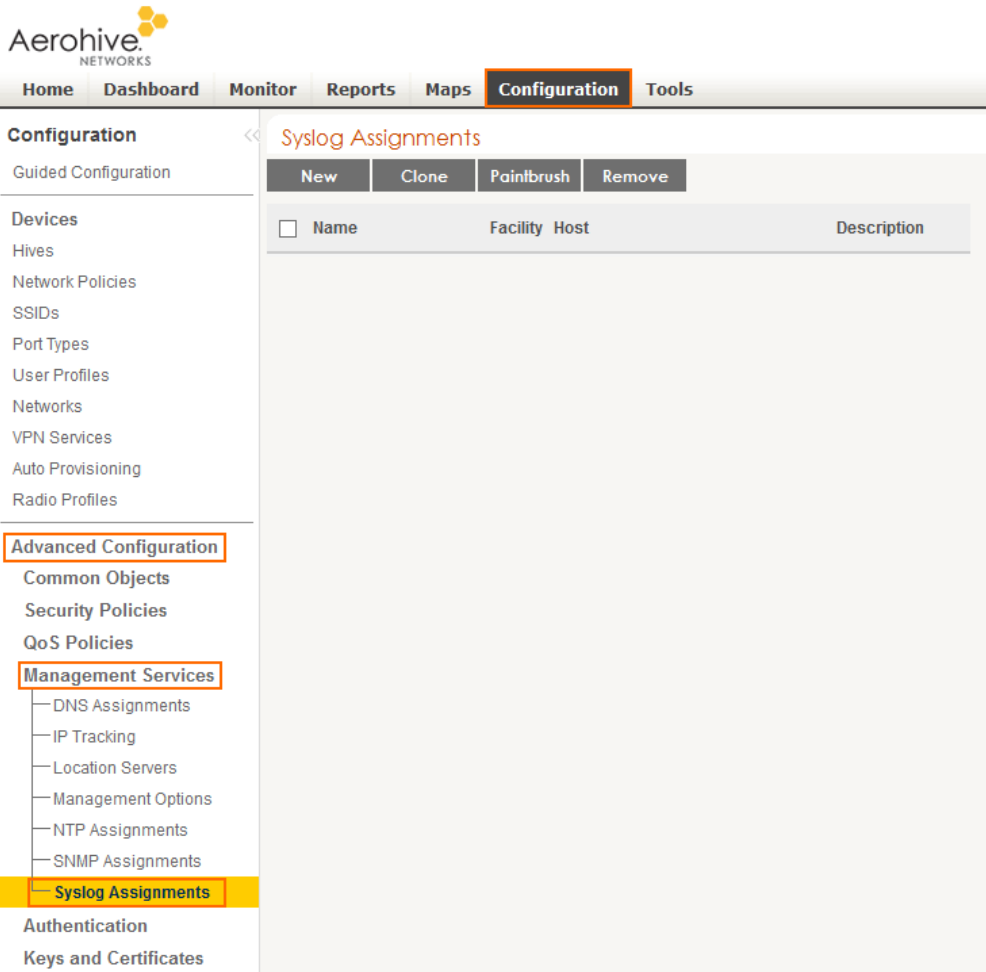
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- Aerohive AP230 802.11ac Wireless AP Version 6.4r1a
- Aerohive Networks HiveManager Online 6.4r1

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

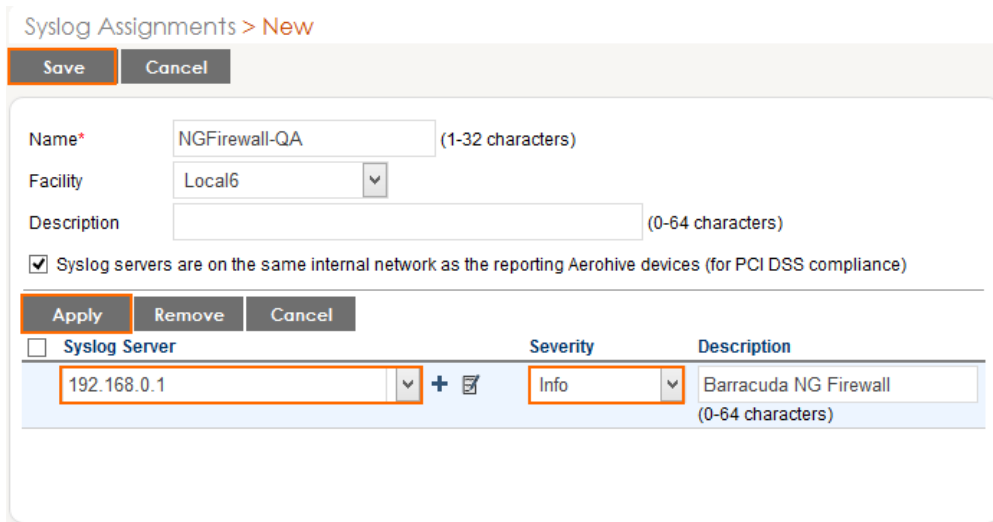
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1. Log into the Aerohive Networks HiveManager.
2. Go to **Configuration > Advanced Configuration > Management Services > Syslog Assignments**.



The screenshot shows the Aerohive Networks configuration interface. The 'Configuration' tab is selected, and the 'Syslog Assignments' sub-tab is active. The left sidebar contains a navigation menu with 'Syslog Assignments' highlighted. The main content area shows a table with columns for Name, Facility, Host, and Description. At the top of the table are buttons for 'New', 'Clone', 'Paintbrush', and 'Remove'.

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



The screenshot shows the 'New Syslog Assignment' configuration form. The breadcrumb is 'Syslog Assignments > New'. There are 'Save' and 'Cancel' buttons at the top. The form fields are:
 

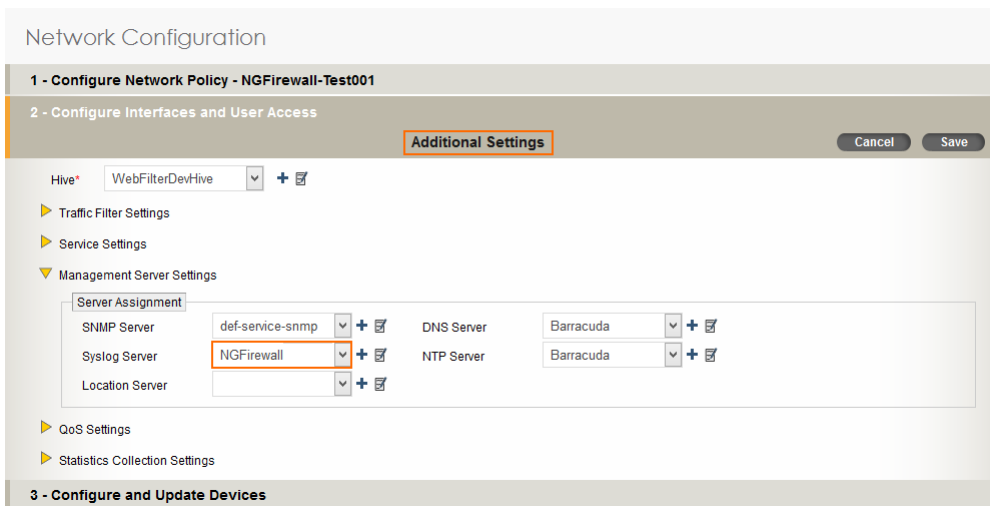
- Name\***: NGFirewall-QA (1-32 characters)
- Facility**: Local6 (dropdown)
- Description**: (0-64 characters)
- Syslog servers are on the same internal network as the reporting Aerohive devices (for PCI DSS compliance)

 Below these fields are 'Apply', 'Remove', and 'Cancel' buttons. A table below shows the configuration for the Syslog Server:
 

Syslog Server	Severity	Description
192.168.0.1 (dropdown)	Info (dropdown)	Barracuda NG Firewall (0-64 characters)

## 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.



Network Configuration

1 - Configure Network Policy - NGFirewall-Test001

2 - Configure Interfaces and User Access

Additional Settings

Hive: WebFilterDevHive

Traffic Filter Settings

Service Settings

Management Server Settings

Server Assignment

SNMP Server	def-service-snmp	+	✕	DNS Server	Barracuda	+	✕
Syslog Server	NGFirewall	+	✕	NTP Server	Barracuda	+	✕
Location Server		+	✕				

CoS Settings

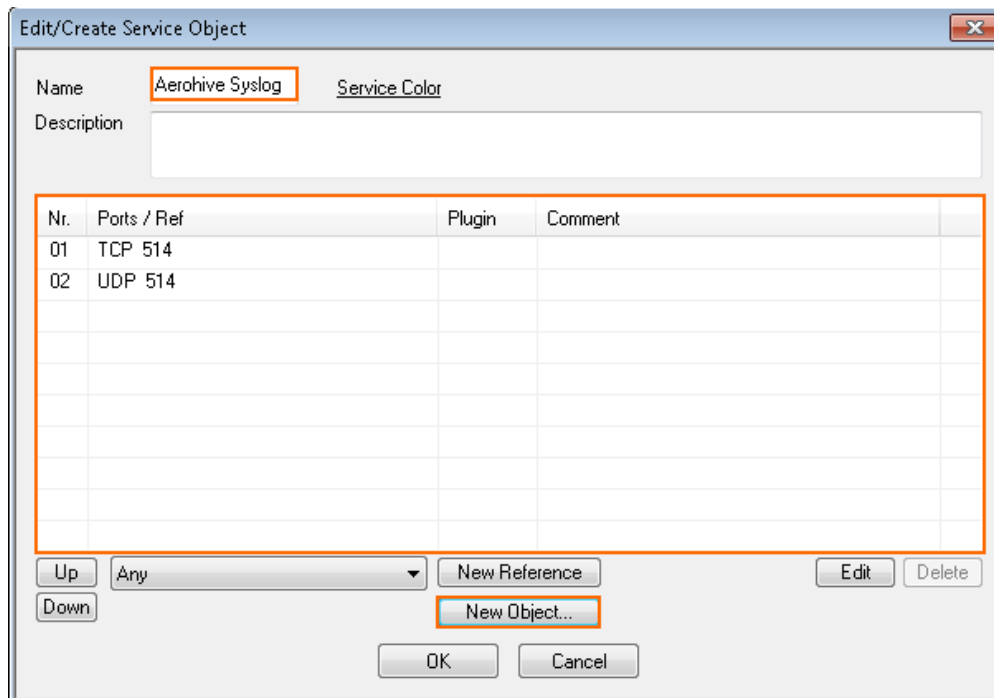
Statistics Collection Settings

3 - Configure and Update Devices

## 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.
  - o **IP Protocol** - Select **006 TCP**.
  - o **Port Range** - Enter 514.
7. Click **OK**.
8. Click **New Object**. The **Service Entry Parameters** window opens.
  - o **IP Protocol** - Select **017 UDP**.
  - o **Port Range** - Enter 514.
9. Click **OK**.



10. Click **OK**.
11. 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

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: arohive
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 arohive): loqqed 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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