
Wi-Fi AP Authentication Aerohive Configuration

<https://campus.barracuda.com/doc/53248465/>

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

Reference Devices/Versions:

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

Step 1. Enable Syslog Streaming on the Aerohive AP

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



Home Dashboard Monitor Reports Maps **Configuration** Tools

Configuration << Syslog Assignments

Guided Configuration

New Clone Paintbrush Remove

<input type="checkbox"/>	Name	Facility	Host	Description

Devices

- Hives
- Network Policies
- SSIDs
- Port Types
- User Profiles
- Networks
- VPN Services
- Auto Provisioning
- Radio Profiles

Advanced Configuration

- Common Objects
- Security Policies
- QoS Policies

Management Services

- DNS Assignments
- IP Tracking
- Location Servers
- Management Options
- NTP Assignments
- SNMP Assignments
- Syslog Assignments**

Authentication

Keys and Certificates

- 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.
- Click **Apply**.
- Click **Save**.

Syslog Assignments > New

Save Cancel

Name* NGFirewall-QA (1-32 characters)

Facility Local6

Description (0-64 characters)

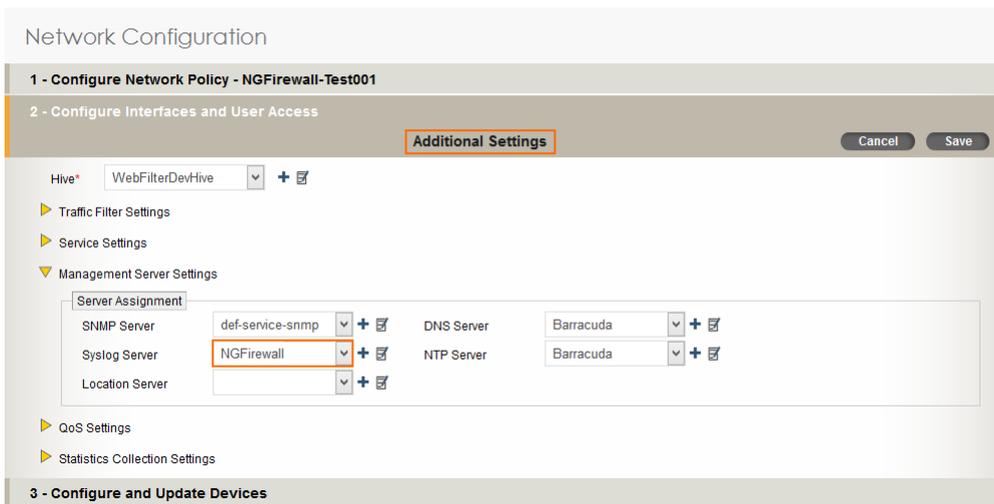
Syslog servers are on the same internal network as the reporting Aerohive devices (for PCI DSS compliance)

Apply Remove Cancel

<input type="checkbox"/>	Syslog Server	Severity	Description
<input type="checkbox"/>	192.168.0.1	Info	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

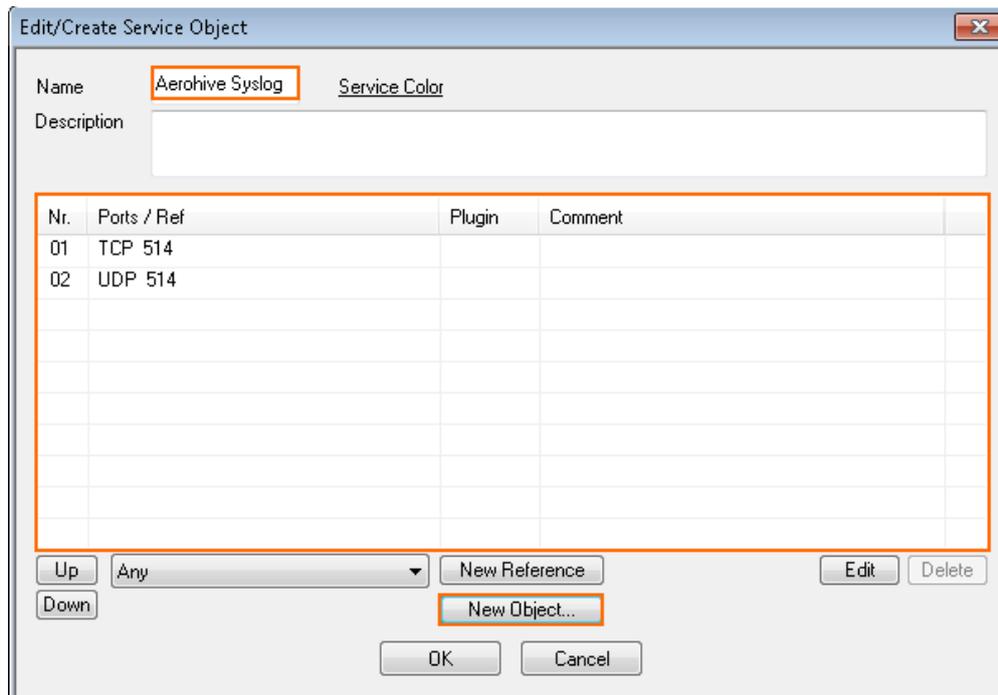
Statistics Collection Settings

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 NextGen 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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