

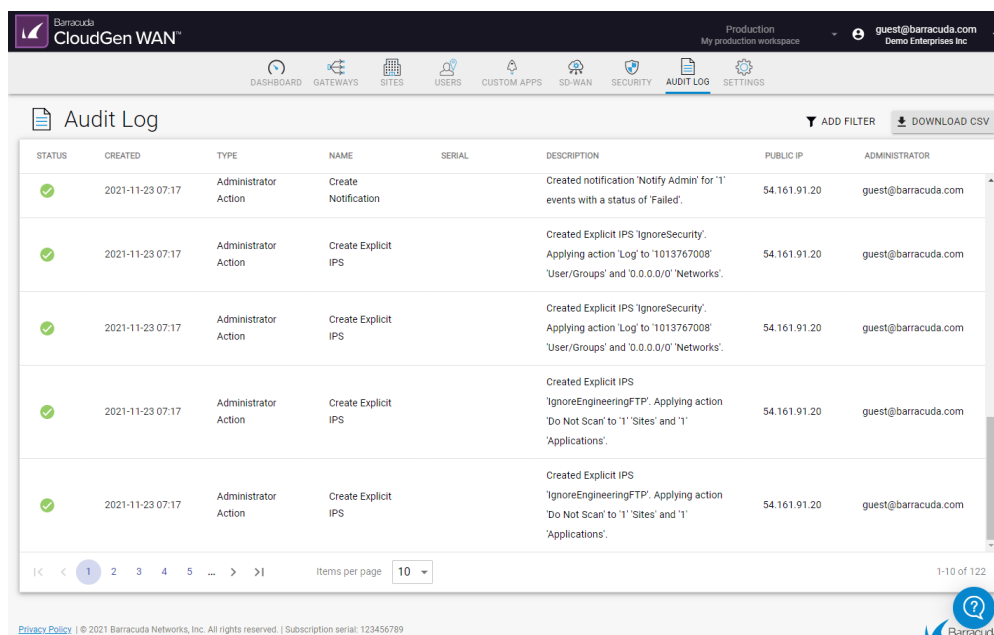
## Monitoring

<https://campus.barracuda.com/doc/92767392/>

Barracuda CloudGen WAN offers multiple audit and reporting functionalities to help you monitor activities throughout your network.

## Audit Log

The Audit Log contains all administrative actions and displays the user and the public IP address of the user who performs an action. It can be accessed in the **AUDIT LOG** tab of the Cloud UI <https://cloudgenwan.barracudanetworks.com/>. Actions performed directly on the [Local Web UI](#) are logged with the username **root**. You can also download the entries as a CSV file.



The screenshot shows the Barracuda CloudGen WAN interface with the 'AUDIT LOG' tab selected. The table displays administrative actions with columns for Status, Created, Type, Name, Serial, Description, Public IP, and Administrator. Five entries are visible, all with a status of 'Success' (green checkmark) and performed by 'guest@barracuda.com' from IP '54.161.91.20'. The actions include creating a notification and four explicit IPS rules. The interface includes a navigation bar, a top menu, and a footer with a privacy policy link and subscription information.

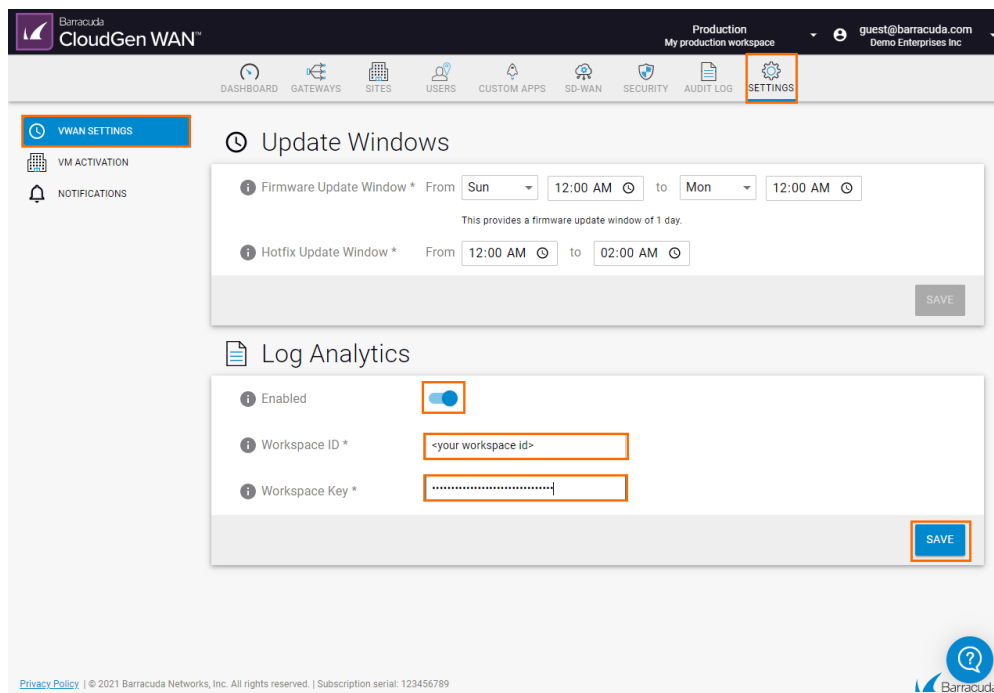
STATUS	CREATED	TYPE	NAME	SERIAL	DESCRIPTION	PUBLIC IP	ADMINISTRATOR
Success	2021-11-23 07:17	Administrator Action	Create Notification		Created notification 'Notify Admin' for '1' events with a status of 'Failed'.	54.161.91.20	guest@barracuda.com
Success	2021-11-23 07:17	Administrator Action	Create Explicit IPS		Created Explicit IPS 'IgnoreSecurity'. Applying action 'Log' to '1013767008' 'User/Groups' and '0.0.0.0/0' 'Networks'.	54.161.91.20	guest@barracuda.com
Success	2021-11-23 07:17	Administrator Action	Create Explicit IPS		Created Explicit IPS 'IgnoreSecurity'. Applying action 'Log' to '1013767008' 'User/Groups' and '0.0.0.0/0' 'Networks'.	54.161.91.20	guest@barracuda.com
Success	2021-11-23 07:17	Administrator Action	Create Explicit IPS		Created Explicit IPS 'IgnoreEngineeringFTP'. Applying action 'Do Not Scan' to '1' 'Sites' and '1' 'Applications'.	54.161.91.20	guest@barracuda.com
Success	2021-11-23 07:17	Administrator Action	Create Explicit IPS		Created Explicit IPS 'IgnoreEngineeringFTP'. Applying action 'Do Not Scan' to '1' 'Sites' and '1' 'Applications'.	54.161.91.20	guest@barracuda.com

## Log Files

The Barracuda CloudGen WAN appliances generate log files for the following system processes:

- FW Activity Log
- Threag Log
- Web Log
- SD-WAN Log

Log files are stored and are accessible directly on the appliance. To limit the size of a single log file, the appliance creates a new log file for each service every four hours. All log files are stored in plain text in the system's /var/phion/logs directory. You can easily stream your log files to Microsoft Azure and analyze them there. For more information, see [How to Configure Log Streaming to Microsoft Azure Log Analytics Workspace](#).



## Format and Types

Log file entries are divided into the following segments:

- **Time** – The time when an event has taken place. This indicator marks individual log entries.
- **Type** – Shows the following types of the log files.
  - **Warning** – Uncritical log event (e.g., login to the system)
  - **Error** – Log event error (e.g., system calls or clock skew)
  - **Fatal** – System-critical log events.
  - **Notice** – Normal system log events.
  - **Security** – Security-relevant log events.
  - **Panic** – Marks critical log events compromising the system's functionality and stability.
- **TZ** – Displays the UTC time zone offset compared to the local box time.
- **Message** – Description of the log event.

## Stream Log Files to Microsoft Azure

Log files can be easily streamed to a Log Analytics workspace in Microsoft Azure.

- To stream log files to a Log Analytics workspace in Microsoft Azure, see [How to Configure Log Streaming to Microsoft Azure Log Analytics Workspace](#).

- To get started with Microsoft Log Analytics, see <https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/get-started-portal>.

## Firewall Activity Log

- Action taken
- Source IP
- Source port
- Destination IP
- Destination port

## Firewall Threat Log

- Threat description
- Action taken
- Source IP
- Destination IP
- Destination port
- Protocol
- User name

## VPN User Accounting Log

- Event (login/logout)
- Tunnel name
- User name
- Peer
- Start time
- End time
- Duration
- Bytes in
- Bytes out

## SDWan Data Log

- Tunnel name
- Host name
- Transport state
- Sample timestamp
- Number of samples
- Effective upstream bandwidth minimum
- Effective upstream bandwidth average
- Effective upstream bandwidth maximum
- Effective downstream bandwidth minimum
- Effective downstream bandwidth average

- Effective downstream bandwidth maximum
- Latency minimum
- Latency average
- Latency maximum
- Usage standard upstream minimum
- Usage standard upstream average
- Usage standard upstream maximum
- Usage standard downstream minimum
- Usage standard downstream average
- Usage standard downstream maximum
- Usage non-delay upstream minimum
- Usage non-delay upstream average
- Usage non-delay upstream maximum
- Usage non-delay downstream minimum
- Usage non-delay downstream average
- Usage non-delay downstream maximum

### **Barracuda Own Metrics**

- SSL VPN clients
- Connections total
- Connections new
- Connections failed
- Connections dropped
- Connections blocked
- Forwarding connections total
- Forwarding connections new
- Site-to-site VPN tunnels up
- Site-to-site VPN tunnels down
- Client-to-site VPN tunnels
- Protected IPS
- IPS hits
- Packets total
- Packets in
- Packets out
- Bytes total
- Bytes in
- Bytes out
- Metered bytes total
- Used memory
- Free memory
- Load

## Generic Performance Metrics

- Hard disk i/o measurements
- RAM usage
- Network interface statistics
- CPU usage
- File system usage
- Temperature data

Home > Campus-OMS-workspace > Advanced settings >

**Logs** Campus-OMS-workspace

New Query 1\* + Example queries Query explorer Settings

Campus-OMS-workspace Select scope Run Time range: Last 24 hours Save Copy link New alert rule Export Pin to dashboard Format query

Tables Queries Filter Search

Group by: Solution Filters: not selected

**Favorites**  
You can add favorites by clicking on the ☆ icon

**LogManagement**

- Alert
- AppCenterError
- ComputerGroup
- Heartbeat
- Operation
- Perf
- ReservedCommonFields
- Usage

```
// Virtual Machine available memory
// Chart the VM's available memory over the last hour.
Perf
| where ObjectName == "Free_Memory"
```

Results Chart Columns Display time (UTC+00:00) Group columns

Completed. Showing results from the last 24 hours. 00:00:00.919 1,439 records

TimeGenerated [UTC]	Computer	ObjectName	CounterName	InstanceName	Min	Max	SampleCount	CounterValue	Bucket
> 6/16/2020, 2:02:08.943 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,164	
> 6/16/2020, 2:02:08.943 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				84,532	
> 6/16/2020, 2:05:08.950 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				84,636	
> 6/16/2020, 1:54:08.923 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,040	
> 6/16/2020, 1:54:08.927 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,204	
> 6/16/2020, 1:56:08.940 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,812	
> 6/16/2020, 1:57:08.957 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,432	
> 6/16/2020, 1:57:08.957 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,632	
> 6/16/2020, 1:58:08.943 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,404	
> 6/16/2020, 2:00:08.917 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				86,264	
> 6/16/2020, 2:00:08.923 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				85,040	
> 6/16/2020, 2:04:08.947 PM	ca-tesseract-394	Free_Memory	Free_Memory.value	BNGF				83,280	

## Notifications

Barracuda CloudGen WAN allows you to create notifications for certain events. These notifications are sent to one or more specified email addresses. You can also download a list of notifications as a CSV file. For more information, see [How to Create a Notification](#).

Production  
My production workspace

guest@barracuda.com  
Demo Enterprises Inc

DASHBOARD

GATEWAYS

SITES

USERS

CUSTOM APPS

SD-WAN

SECURITY

AUDIT LOG

SETTINGS

WVAN SETTINGS

VM ACTIVATION

NOTIFICATIONS

Notifications

ADD FILTER

ADD

DOWNLOAD CSV

STATUS	NAME ↑	EVENTS	ADMINISTRATORS	ACTIONS
	Notify Admin	Reset Policy Category	admin@barracuda.com	
	Notify IT	Create Explicit Policy Create Gateway Create Site Update Policy Category	it@barracuda.com	

|< < 1 > >|

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## Figures

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2. log\_analytics821.png
3. free\_memory.png
4. notifications821.png

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