

Log File Handling

<https://campus.barracuda.com/doc/43847074/>

The log configuration specifies how the log daemon handles log files on the Barracuda NG Firewall. Logs can be sent to the syslog service and/or written to disk. Log cycling specifies how long log files are kept and where they are stored.

In this article:

Configure the Log Daemon

1. Go to **CONFIGURATION > Full Configuration > Box > Infrastructure Services > Log Configuration**.
2. Click **Lock**.
3. Set **Generate Log Data** and **Log to Storage**:

Generate Log Data	Log to Storage	Result
yes	yes	Logs are sent to the syslog service and written to disk.
yes	no	Logs are sent to the syslog service but not written to disk.
no	yes	Logs are neither sent to the syslog service nor written to disk. If you want to activate the writing of log files to disk only, you must set parameters Generate Log Data AND Log to Storage to yes and disable syslog streaming by setting the parameter Idle Mode in the syslog streaming setup to yes .
no	no	Logs are not streamed or saved to disk.

4. Click **Send Changes** and **Activate**.

Configure Log Cycling

1. Go to **CONFIGURATION > Full Configuration > Box > Advanced Configuration > Log Cycling**.
2. Click **Lock**.
3. Set **Verbose Logging**:
 - **yes (default)** - The file name and action of the cycled logfiles are logged to the **Box/Logs/logstor** logfile.
 - **no** - Cycles log files are not logged.
4. In the **File Specific Settings** table, click + to add a new entry for the log file type.

5. Enter a Name for the settings and click **OK**.

6. Select the **Type of Logfile**:

Type of Logfile	Description
all	All logfiles created.
box	Log files created by the box layer services.
boxfw	Log files of the host firewall.
fatal	Log file containing entries from all <i>fatal</i> log files.
misc	Log files that are not allocatable to the box layer or virtual server layer.
server	Log files created by services running on a virtual server.
user	Log file containing entries related to specific users.

7. Specify the **Logfile Name Patterns**. For user log files, you can enter a list of wild card expressions. Only files with the .log suffix are affected. Protect wildcards with single quotes.

8. **Log Cycling Actions** - In the **Actions** table, add entries to configure the log maintenance policies. You can add the following types of actions:

- **Remove** - Specifies how long a log file can be stored before it is deleted.
 1. In the **Storage Time (days)** field, enter the maximum number of days that the log file can be kept.
 2. In the **Always Keep (File Instances)** field, you can enter the number of log files that you want to keep, regardless of the value entered in the **Storage Time (days) field**.
- **Purge** - Specifies how long a log file can be stored before it is deleted, without the option of how many log files can be kept beyond the specified time length.
 1. In the **Max. Storage Time (days)** field, enter the maximum number of days that the log file can be kept.
- **Move** - Specifies how long a log file can be stored before it must be moved to a specified directory.
 1. In the **Storage Dir** field, enter the directory where the file should be moved.
 2. To preserve separation of log and laf files through using different subdirectories, enable **Keep Log Structure**. Enabling **Compression** compresses (gzip -6) moved files.
 3. In the **Storage Time (days)** field, enter the maximum number of days that the file can be kept before it must be moved.
 4. In the **Always Keep (File Instances)** field, you can enter the number of log files that cannot be moved, regardless of the setting entered in the **Storage Time (days) field**.

You must manually monitor the **Storage Dir** directory, as it is not automatically maintained by the Barracuda NG Firewall. Delete or move old log files to prevent the disk from running out of space.

9. Click **OK**.

10. Click **Send Changes** and **Activate**.

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