

Parse File Audit Log Data with Elastic Logstash



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Applies to: Hammerspace 5.2 and later.

Hammerspace uses System Access Control Lists (SACLs) to log attempts to access a secured object. If SACLs were defined before you assimilated your data, they were imported along with the Discretionary Access Control Lists (DACLs), and you can add to or edit them afterwards.

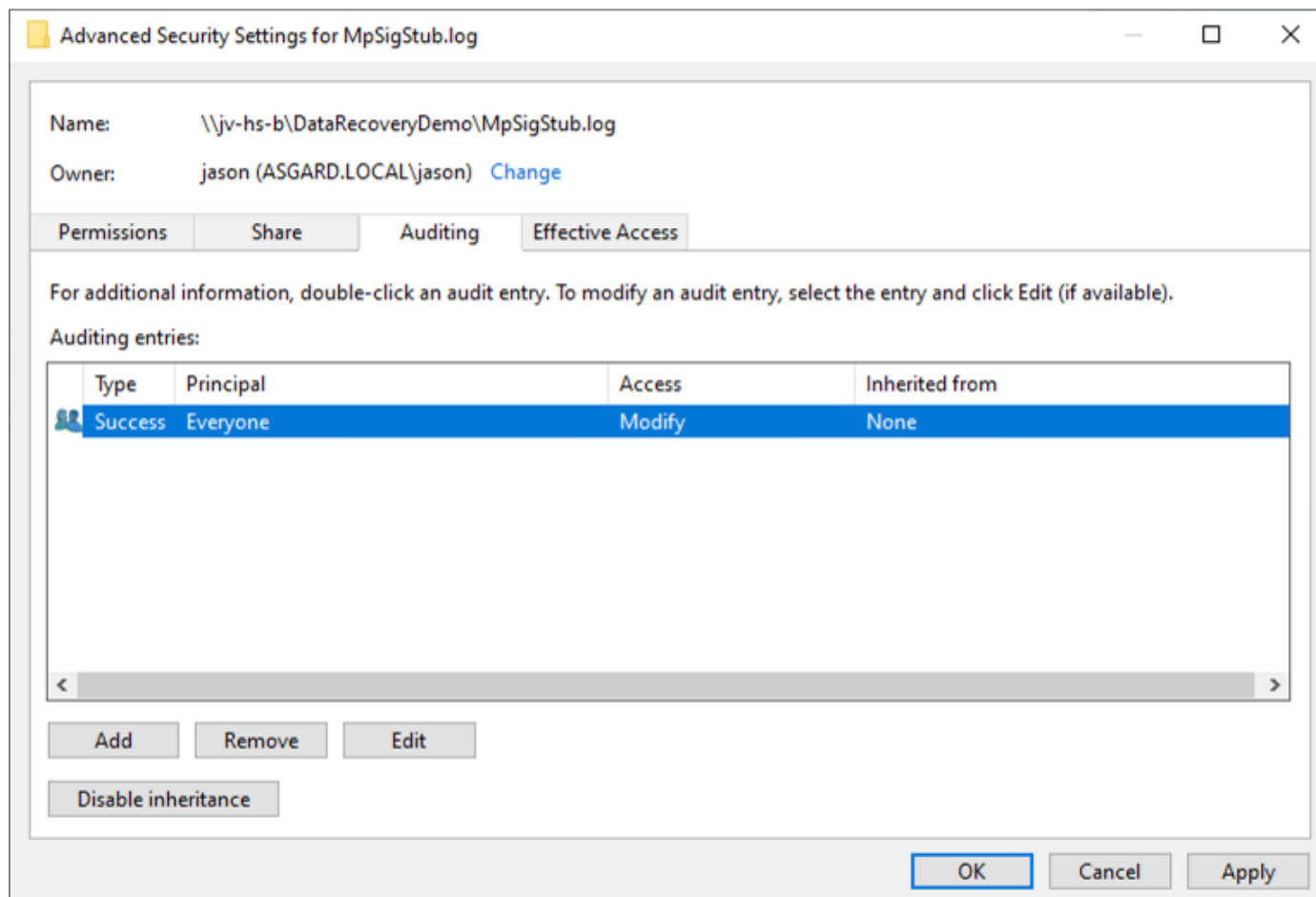


Figure 1. Access auditing settings on a share

1. Export Audit Data over Syslog

Configure a syslog server and enable forwarding from the CLI:

Command:

```
syslog-config --server 192.168.1.24,514,tcp,filesystem
syslog-enable
```

The `--server` value is a three- or four-part tuple: server, port, transport, and optionally the message types. The server may be an IP address or a resolvable hostname. Transport may be `tcp`, `udp`, or `relp`. Message types may be `event`, `filesystem`, or both separated by a vertical bar — `event` forwards system events, `filesystem` forwards file access audit records. The default is `event|filesystem` for TCP and UDP, and `filesystem` for RELP, which accepts nothing else. You can repeat `--server` to send to more than one destination.

Run either command with `--help` for the full syntax.

A raw, unparsed audit record looks like this:

```
<85>Feb 13 03:57:00 hs-anvil-1 filesystem AUDIT [audit_access='a'
audit_access_type='SUCCESSFUL_ACCESS'] [share='test' path='./'] [op='GETATTR']
by [uid='S-1-5-21-3542313152-161972221-2563593081-1000', gid='G-0']
at ['Wed 2024-02-13 03:57:00 UTC'] from [client=4]
```



Audit only the events you actually need, on only the data that needs it. Collecting file system audit logs adds overhead.

2. Download the Logstash Configuration File

Hammerspace publishes a sample Logstash configuration that parses the syslog stream into something Elasticsearch can index and search, and matches security identifiers to user names. It is available from [the hs-docker-elk repository on GitHub](#).



The configuration file is provided as is. It has been tested with Hammerspace 5.0.x releases, but a future release may change the syslog format and stop the parser working. If that happens:

- Hammerspace cannot commit to when the parser will be updated.
- Hammerspace Support cannot help with deploying or configuring Elasticsearch, Logstash, Kibana, or this configuration file.
- Hammerspace Support cannot write parsers for other log ingest platforms.