

## CLICKHOUSE INTEGRATION WITH SECURITY VALIDATION

This integration provides the following benefits:

- Validates that security tools are writing log events to Clickhouse to ensure compliance with security policies and regulations
- Collects events generated by security tools that write to Clickhouse to test the efficacy and configuration of security controls using Security Validation jobs

### API Calls

API	Usage
/	Run queries against Clickhouse

### Supported Versions

- 23.9+

### Before You Begin

To configure this integration, you need:

- The hostname and port of the http interface of your Clickhouse instance
- A valid username and password
- Database and table name

You should always add `FORMAT JSON` to your queries.



```
SELECT * FROM db.table FORMAT JSON
```

### Configure Security Validation

1. Go to **Settings > Integrations**.
2. From the Integrations table, click **Add Integration > Clickhouse**.



You can add this as either a Direct or Remote Integration.

3. Enter a meaningful **Integration Name**.
4. Optional: From the **Proxy** drop-down, choose a proxy profile if one is available. If one isn't available and all outbound connections go through a proxy, first, set up a **Proxy Rule** (<https://docs.mandiant.com/home/msv-proxy-rules>).
5. Optional: Change the **HttpProtocols** value to determine what protocol is used for requests ( **Https** or **Http** ).
6. Enter the **Host** for the Clickhouse instance.
7. Enter a **Port** value. The default is **443**.
8. Enter the **Username** and **Password** for the account with permission to use API endpoints.
9. Optional: Check **Verify Ssl** if you want this verification done for requests to an upstream server.
10. Optional: Change the **Timeout** value if you want a different frequency of requests to an upstream server. The default is **30** (seconds).
11. Optional: Modify **Queries**, as needed. Defaults are provided for **IP Query**.
12. Optional: Modify the **Field Map** values, as necessary.



- Each field map box can hold a JSON-formatted comma-separated list of columns returned by the API to be considered for each field when translating into the normalized event object format. Example: description could be configured to be 'msg\_s' or 'SyslogMessage' in some environments. The field map tries both if set to: ['msg\_s','SyslogMessage'] and whichever matches first is the column that is used.
- When configuring an integration in Security Validation, you can assign additional host values in the Field Map settings. If none of the assigned fields return a valid host name, Network Actions may miss matched events from the third-party technology. Additional hosts values helps ensure the likelihood of a match between the two environments.

13. Optional: Modify the **Page Size** to change the request for the upstream server. The default is **500**.

14. Optional: Expand **Advanced options** and update the information as necessary.

a. Update **Query Time** and **Delay Time**.



The **Query time** is the amount of time (minutes) before and after the query runs that the platform looks for events, while the **Delay time** is the amount of time (minutes) that the platform waits to run the first query after a Job Action starts. For example, you configure your integration with the following values: **Query time** = 5, **Query interval** = 30 seconds, and **Delay time** = 0. When a Job Actions starts at 12:00:00, the first time the query runs, the platform looks for events from 11:55:00 to 12:00:00. Then 30 seconds later, it looks for events from 11:55:30 to 12:00:30. This interval continues, with the last query looking from 12:00:00 to 12:05:00. If you instead configured the **Delay time** to equal 10, it would run the same query, but it wouldn't start that query until 12:10:00.



If your monitors are set to run more frequently than the query time, this configuration impacts the pass/fail results for AEDA monitors.

b. Update **Query Interval** (seconds).

c. Select **Correlation Query Enabled** and fill in the **Correlation Query**.

d. Modify the **Correlation Query Interval**, if necessary (minutes).

e. Select **Discover network devices automatically**, the default and recommended option.



If unselected, reported events won't include product information for any matching network security technology.

f. Select **Save Suspicious Events**.

g. Modify the **Event Time Adjustment** (seconds). The default is **0**.

h. Modify the **Limit** value if you need to prevent a flood of results. This value is set to **10000** by default. This limit applies to both events and alerts individually, so if you set it to **10**, you can still see a maximum of 10 events and 10 alerts.

15. Click **Save**.

#### Verify connectivity

1. Go to **Settings > Integrations**.

2. From the Direct Integrations table, click **> Test** to verify that:

- The Director can communicate with the integration host on the port and protocol specified.
- The integration credentials are valid and working.



For more information on setting up queries, see **Manage Integrations** (<https://docs.mandiant.com/home/msv-managing-integrations>).