

How to Configure Logstash to send local data to Elastic Cloud

Both single files and active logs

Produced for CISA by Team Anomalous

Logstash Pre-Configuration

Download Logstash

Download Logstash from: <https://www.elastic.co/downloads/logstash>

Download the Pre-Configured Config Files Associated with this Document

Insert them into the config folder inside your downloaded Logstash folder and replace the existing files.

Configure Config Files

Open up both the logstash.conf as well as the logstash.yml and as you gather the information in the next section insert the information into the config files.

DO NOT USE BACKSLASH (\) AT ANY POINT IN YOUR CONFIG. LOGSTASH TREATS IT AS AN EXIT SYMBOL.

IF AT ANY POINT YOU HAVE TO RUN LOGSTASH AGAIN ON A DATASET DELETE THE DATASET YOU RAN IT ON ORIGINALLY AND EITHER RE-DOWNLOAD OR RE-EXTRACT THE FILE. LOGSTASH WILL IGNORE ANY FILE IT HAS EVEN PARTIALLY INTERACTED WITH.

Gather information from your Elastic Deployment

Select Deployment

Elasticsearch Service Create deployment				
Deployment name	Status	Version	Quick link	Cloud region
i-o-optimized-deployment	● Healthy	7.11.1	Kibana	N. Virginia (us-east-1)

Click on your desired deployment to enter the home page.

Copy the Elastic Endpoint

Applications ?


- Elasticsearch / **Copy endpoint** / Copy Cluster ID
- Kibana / Launch / Copy endpoint / Copy Cluster ID
- APM / Launch / Copy endpoint / Copy Cluster ID

Copy the Elasticsearch endpoint and insert it into line 19: hosts, in the logstash.conf file.

Copy the Cloud ID

Cloud ID ?

```
i-o-optimized-
deployment:dXmtZWFzdC0xLmF3cy5mb3VuZC5pbyRiMjRiOGNiYT
Jh0GI0N2ZlYjE4ZTA1MGRhN2UxZTYxZCQzMjY1MjE0Yjk2NWQ0ZDY
40TVhNzk0NzIyYzcyZTQ2MQ==
```

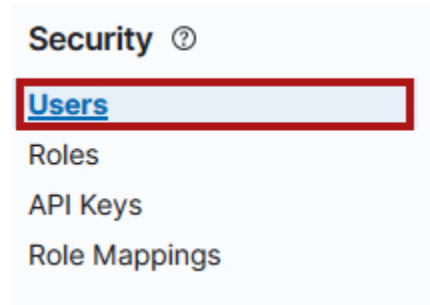


Copy the Cloud ID using the clipboard button and insert the entire ID including the name into line 150 of the logstash.yml file.

Go to Kibana and Open the Manage Toolbar

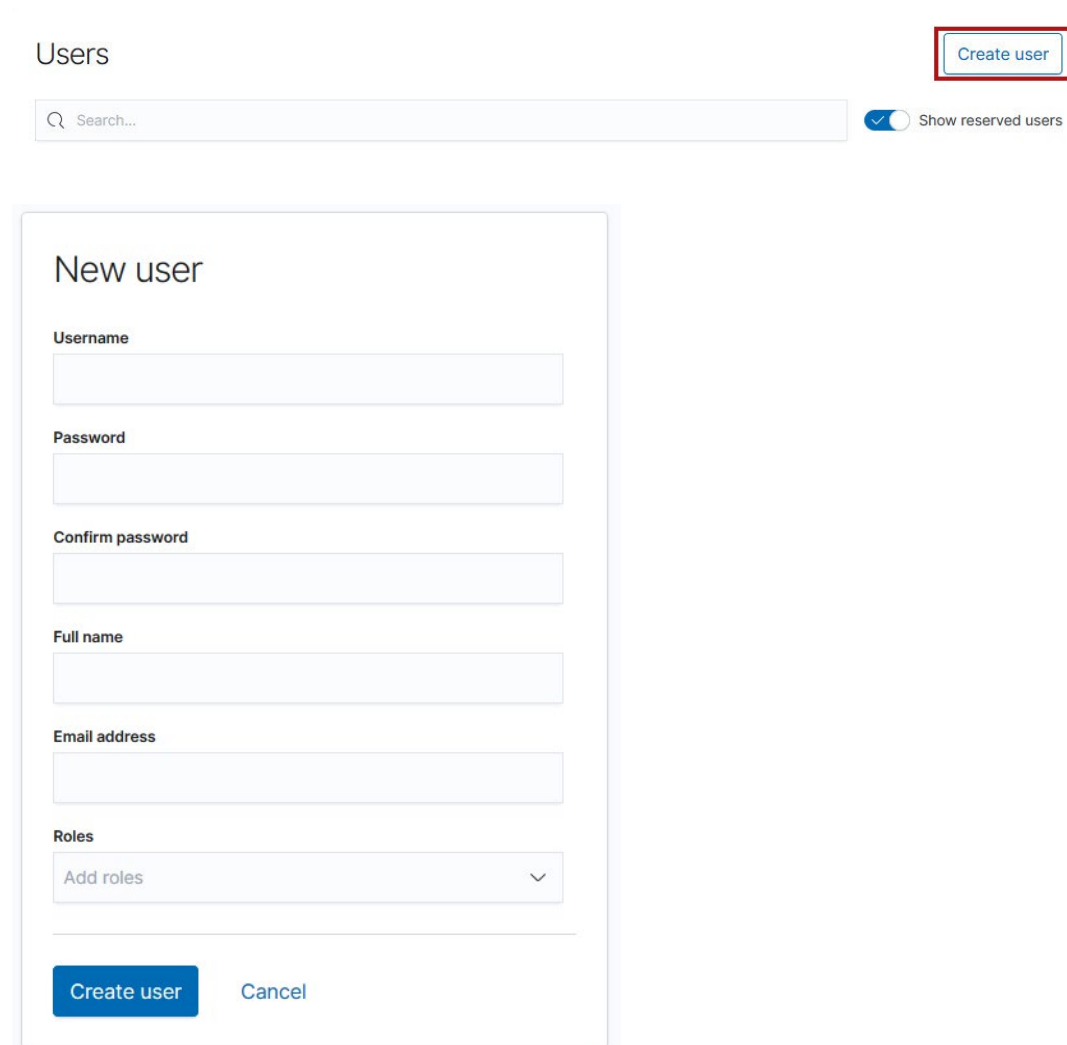
Add data **Manage** Dev tools

Open the Users Menu



On the left side menu, four sections down under the security subsection click on the Users tab.

Create a New User

A screenshot of a web application's "Users" management page. At the top left, the word "Users" is displayed. To its right is a "Create user" button, which is highlighted with a red rectangular border. Below the "Users" header is a search bar with a magnifying glass icon and the placeholder text "Search...". To the right of the search bar is a toggle switch labeled "Show reserved users", which is currently turned on. Below these elements is a modal form titled "New user". The form contains several input fields: "Username", "Password", "Confirm password", "Full name", and "Email address". Below these fields is a "Roles" section with a dropdown menu showing "Add roles" and a downward arrow. At the bottom of the form are two buttons: "Create user" (in blue) and "Cancel".

Fill out the new user information with a new username and password combination. There is no need to fill in the full name or the email address boxes. Under role on the left side menu, four sections down under the security subsection click on the User. Give the user superuser role, if making it into a production model use the guides provided by Elastic for creating a permanent role for your Logstash user. Once finished, create the user.

Fill in the username and password under line 155 in the logstash.yml as well as lines 20 and 21 in the logstash.conf

Final Logstash Configuration and Execution

Path to File

On line 6 of the logstash.conf insert the path to your intended dataset.

Running Logstash

Open Command Prompt (Administrator is not necessary) and navigate to the logstash folder then to the bin folder within.

Then run this command to run Logstash: `logstash -f ../config/logstash.conf`

Logstash will then run and over approximately 2 minutes Logstash will print a lot of [INFO] messages as well as two [WARN] messages. Then Logstash will stay on the line "[INFO][logstash.agent] Successfully started Logstash API endpoint {:port=>9600}" until Logstash shuts down once it is finished.

LOGSTASH WILL DELETE YOUR FILE ONCE IT IS FINISHED PROCESSING

Configuring Elastic Cloud to be Able to Use Logstash Data

Confirming That Elastic Received Your Data

Data ?

Index Management

Index Lifecycle Policies

Snapshot and Restore

Rollup Jobs

Transforms

Cross-Cluster Replication

Remote Clusters

Navigate to Kibana and open the manage menu. In the second section Data, click on the Index Management tab.

Index Management

[Index Management docs](#)

Indices Data Streams Index Templates Component Templates

Update your Elasticsearch indices individually or in bulk. [Learn more.](#)

☐ Include rollup indices

☐ Include hidden indices

Search

Lifecycle status

Lifecycle phase

[Reload indices](#)

The Indices should be in the order of most recent at the top, so if you were successful you should see your logstashindex index at the top.

Putting the Data into Kibana

Kibana ?

Index Patterns

Saved Objects

Tags

Spaces

Advanced Settings

On the left-hand menu in Kibana in the fifth section Kibana, select the first tab Index Patterns.

Index patterns

[+ Create index pattern](#)

Create and manage the index patterns that help you retrieve your data from Elasticsearch.

Click Create index pattern

Step 1 of 2: Define an index pattern

Index pattern name

[Next step >](#)

Use an asterisk (*) to match multiple indices. Spaces and the characters \, /, ?, ", <, >, | are not allowed.

☒ Include system and hidden indices

✓ Your index pattern matches 1 source.

logstashindex	Index
Rows per page: 10 ▾	

Type in logstashindex into the name and your index from the last step should appear. Once you see that as the only index in the list below and the next step button is blue you can click the button.

Step 2 of 2: Configure settings

Specify settings for your **logstashindex*** index pattern.

Select a primary time field for use with the global time filter.

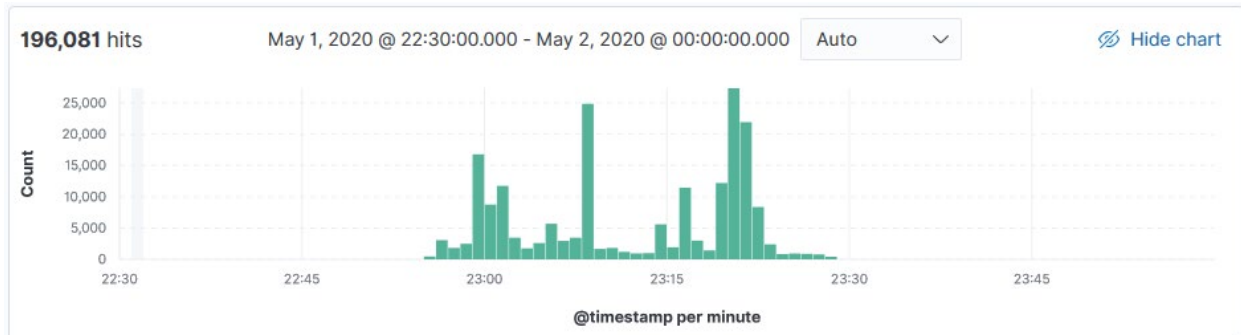
Time field

Refresh



Click on the Time Field drop-down and select @timestamp.

Displaying Your Data



Once you have finished your data should be available in any of the data select drop downs in Kibana.