

Core Assignment 6: ELK Stack Kibana

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Today we will be learning about the ELK Stack as a powerful tool for monitoring and logging. It will be used to create various visualizations in Kibana.

Assignments checklist:

- Start the ELK stack in EC2(free-tier)
- Load the sample ecommerce data in the Kibana

Sample data **Upload file**

INSTALLED

Sample eCommerce Data

This dashboard contains sample data for you to play with. You can view it, search it, and interact with the visualizations. For more information about Kibana, check out [Kibana](#).

Sum of revenue
\$77,377.84

Median spending
\$66.89

Avg. items sold
2.2

Top items by revenue
149.0

INSTALLED

Sample flight data

This dashboard contains sample data for you to play with. You can view it, search it, and interact with the visualizations. For more information about Kibana, check out [Kibana](#).

Total flights
2,180

Cancelled
12.8%

On-time
37.2%

Delayed
43.8%

Top routes by flight count

Route	Count	Cancelled %
Chicago/Portland	25%	15%
San Jose	25%	15%
San Francisco	25%	15%
San Jose City	25%	15%
San Jose	25%	15%
San Jose	25%	15%
San Jose	25%	15%
San Jose	25%	15%
San Jose	25%	15%
San Jose	25%	15%

Sample eCommerce orders

Sample data, visualizations, and dashboards for tracking eCommerce orders.

[Remove](#) [View data](#)

Sample flight data

Sample data, visualizations, and dashboards for monitoring flight routes.

[Remove](#) [View data](#)

- Show the average spend per order for all the data
- Find Average Sales Price for Manufacturer - Angeldale and Category - Men's Shoes
- Find average taxable total price where Manufacturer value has not been provided
- Take a screen shot of your results

Step1:

Start the ELK stack in EC2

Instances (1) Info

Q Search

Instance state = running X

Clear filters

Refresh

Connect

Instance state ▾

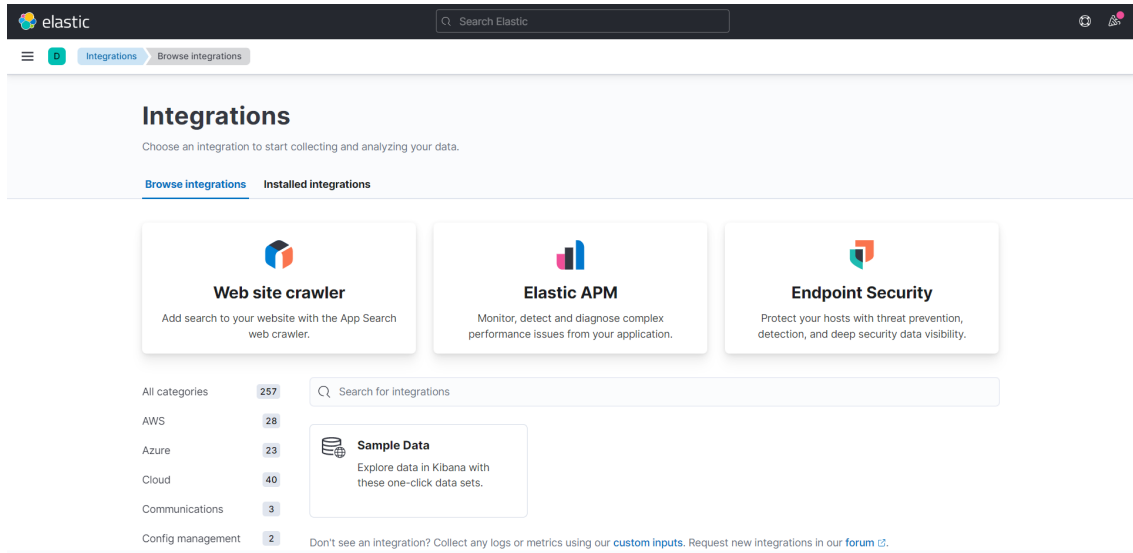
Actions ▾

Launch instances ▾

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS
<input type="checkbox"/>	ELK	i-0ad93dd501ae31ba8	Running 🔍	t3.large	2/2 checks passed	No alarms +	me-south-1b	ec2-157-175-151

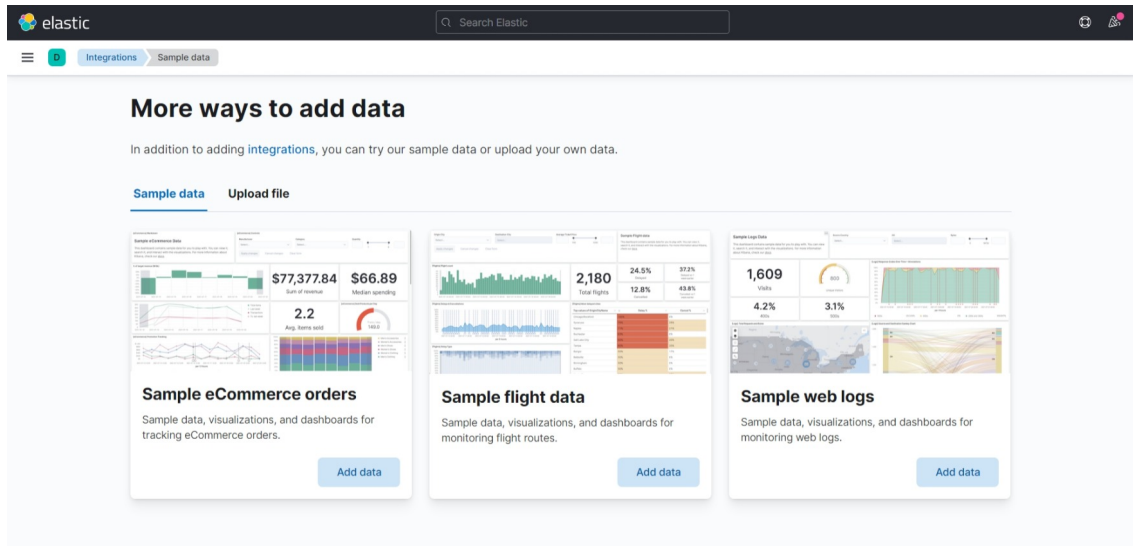
Load the sample ecommerce data in the Kibana

- Go to the Ec2 IP address and go to Integration



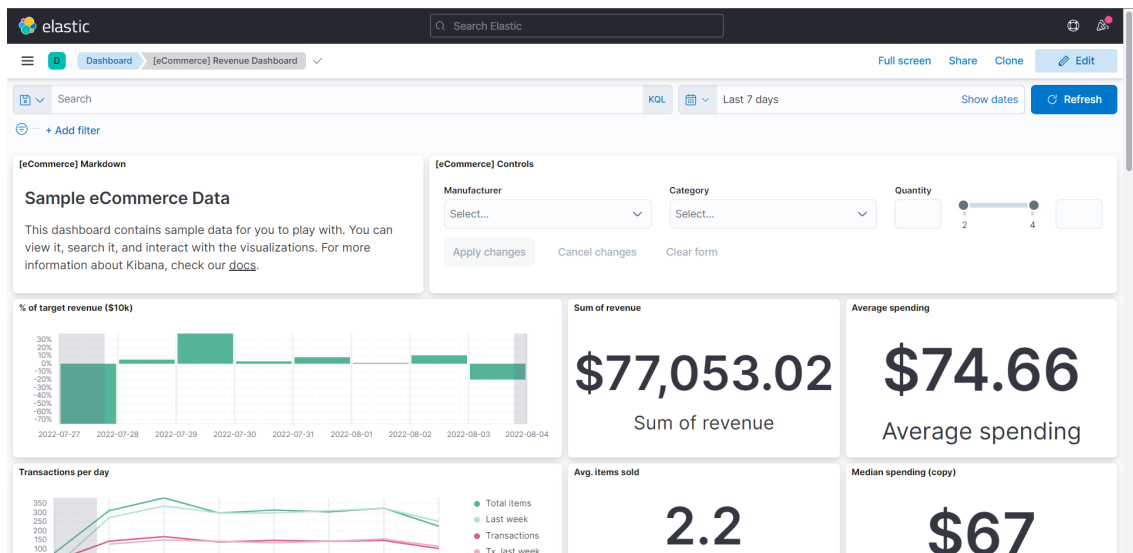
The screenshot shows the Elastic Integrations page. At the top, there's a search bar and a navigation menu with 'Integrations' and 'Browse integrations'. The main heading is 'Integrations' with a subtext 'Choose an integration to start collecting and analyzing your data.' Below this, there are two tabs: 'Browse integrations' (active) and 'Installed integrations'. Three integration cards are displayed: 'Web site crawler' (Add search to your website with the App Search web crawler), 'Elastic APM' (Monitor, detect and diagnose complex performance issues from your application), and 'Endpoint Security' (Protect your hosts with threat prevention, detection, and deep security data visibility). Below the cards, there's a search bar for integrations and a list of categories with counts: All categories (257), AWS (28), Azure (23), Cloud (40), Communications (3), and Config management (2). A 'Sample Data' card is also visible, encouraging users to explore data in Kibana with one-click data sets. At the bottom, there's a note about custom inputs and a link to the forum.

- Sample Data and download the data

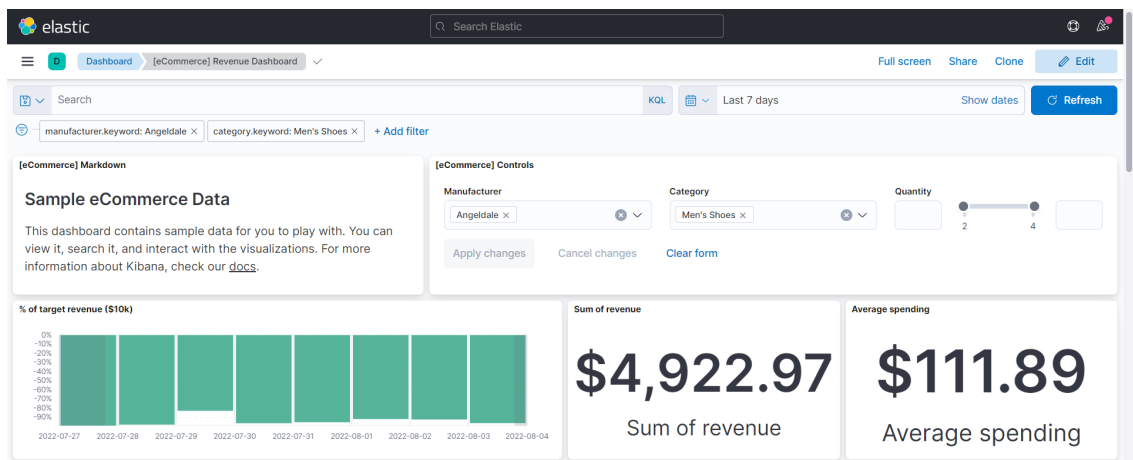


The screenshot shows the Elastic Sample Data page. At the top, there's a search bar and a navigation menu with 'Integrations' and 'Sample data'. The main heading is 'More ways to add data' with a subtext 'In addition to adding integrations, you can try our sample data or upload your own data.' Below this, there are two tabs: 'Sample data' (active) and 'Upload file'. Three sample data cards are displayed: 'Sample eCommerce orders' (Sample data, visualizations, and dashboards for tracking eCommerce orders), 'Sample flight data' (Sample data, visualizations, and dashboards for monitoring flight routes), and 'Sample web logs' (Sample data, visualizations, and dashboards for monitoring web logs). Each card has an 'Add data' button.

- Show the average spend per order for all the data



- Find Average Sales Price for Manufacturer - Angeldale and Category - Men's Shoes



- Find average taxable total price where Manufacturer value has not been provided

