

# OpenSearch: Search Innovation

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OpenSearch is the trusted open source platform for AI-powered search, observability, and analytics with built-in security, high performance, and a flexible architecture for modern applications.



# OpenSearch Software Foundation



# OpenSearch by the numbers

**1.6B+**

*project downloads*

**1.25M**

*monthly page views  
For opensearch.org*

**100+**

*solution providers*

**3K+**

*active contributors*

**400+**

*active organizations*

**29**

*new releases since  
project launch*

**140+**

*GitHub repositories*

**4K+**

*Slack workspace  
members*

**7K+**

*user forum members*

# How search engines work - interaction

1

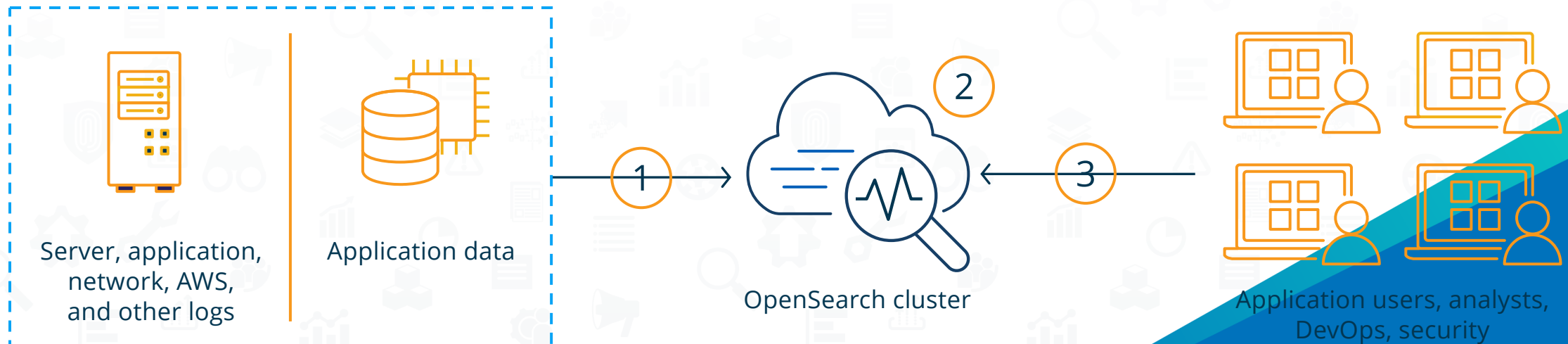
Send data as JSON via REST APIs

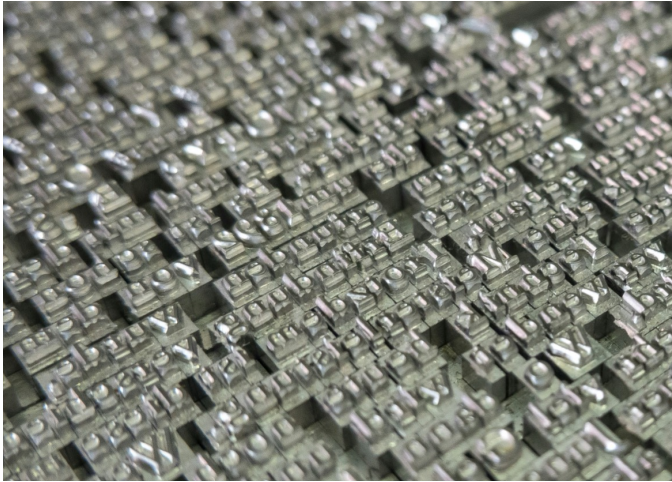
2

Data is indexed—  
all fields searchable,  
including nested JSON

3

REST APIs, for field  
matching, Boolean  
expressions, sorting,  
and analysis





## Search

Provides rich search for structured and unstructured text with adjustable ranking, suggestions, aggregations for faceted search, and more



## Analytics

Stream log data for monitoring applications, security, observability, etc. Real-time dashboarding, Observability, forensic investigations, performance, and more



## Vectors and GenAI

Vector nearest-neighbor search with connectors to 3p model hosting services. Chatbots and RAG use cases.

# Search

Retrieve relevant results from a catalog of data

amazon prime 8 foot blue couch

All Clinic Prime Video Groceries Pharmacy Buy Again Amazon Business Livestreams Health & Household Products

1-48 of 109 results for "8 foot blue couch"

**Amazon Prime**  
 prime

**Delivery Day**  
 Get It by Tomorrow

**More-sustainable Products**  
 Climate Pledge Friendly

**Department**  
Sofas & Couches  
Living Room Furniture Sets  
Futons  
Futon Sets

**Customer Reviews**  
★★★★☆ & Up  
★★★★☆ & Up  
★★★★☆ & Up  
★★★★☆ & Up

**Brands**  
 Stone & Beam  
 Rivet  
 Christopher Knight Home  
 Signature Design by Ashley  
 Best Choice Products  
 HONBAY  
 Modway

**Furniture Price**  
Under \$100  
\$100 to \$500  
\$500 to \$1,000  
\$1,000 to \$2,500  
\$ Min \$ Max Go

**Deals & Discounts**  
All Discounts  
Today's Deals

**Sofa Type**  
 Convertible  
 Loveseat  
 Sectional  
 Standard

**Furniture & Décor Style**  
 Bohemian

**ORRD** Add a warm sofa to your home  
[Shop ORRD >](#)

Chesterfield Sofa, Modern Tufted Velvet Couch 3 Seater with Scroll Arms and Nailhead for Living Ro...  
★★★★☆ 55

Chesterfield Sofa for Living Room, 3 Seater Sofa Couch Faux Leather Fabric Home Seating Couch S...  
★★★★☆ 81

**Results**  
Price and other details may vary based on product size and color.

[+2 colors/patterns](#)

Sponsored  
**HONBAY Convertible Sectional Sofa U Shaped Couch with Ottomans,...**  
★★★★☆ 1,980  
**\$1,129<sup>99</sup>** Was: \$1,199.99  
FREE delivery Jun 20 - 21  
Options: 4 sizes

Amazon Brand – Rivet Frederick Mid-Century Channel Tufted Velvet Sofa...  
★★★★☆ 149  
**\$1,144<sup>65</sup>**  
prime  
FREE delivery as soon as **Mon, Jun 19, 8 AM - 8 PM**  
**Only 10 left in stock - order soon.**  
Options: 2 sizes  
Available Services: **Deluxe Delivery and Unpack and Room of Choice Delivery**  
Amazon brand

# Analytics

OpenSearch Dashboards

Dashboard / Octank Analytics

Full screen Share Clone Reporting Edit

Home Search DQL Last 7 days Show dates Refresh

Recently viewed + Add filter

OpenSearch Dashboards

Overview Discover Dashboard Visualize

OpenSearch Plugins

Query Workbench Reporting Notebooks Alerting Anomaly Detection Trace Analytics Index Management Security

Management Dev Tools Stack Management Undock navigation

[Octank] Controls

Origin City: Select... Destination City: Select... Miles to Destination: 0 - 960

Apply changes Cancel changes Clear form

[Octank] Analytics

Octank This dashboard contains the real time data originating from thousand's of fleets across various Octank Distribution Center (ODC). It also provides you a 360 degree view of the fleets with respect to their surrounding temperature, weather, speed, traffic etc. You can view it, search it, and interact with the visualizations to drill down and get the real time insights.

[Octank] Carriers

Logstash Logistics

[Octank] Current Stats of Fleet

Device Id	Fleet Reg No	Origin	Destination	Timestamp	Temperature °F	Fuel Level	milesToGo	Speed Miles/Hr
3452890774	H5OE3NTI56	ODC Seattle	ODC Los Angeles	Aug 31, 2021 @ 15:01:52.658	86	65%	958.895	5
7232574133	IGPOIWR8HX	ODC Seattle	ODC Los Angeles	Sep 1, 2021 @ 21:03:19.025	-8	72%		
1977605220	LJ52AJPFIZ	ODC Seattle	ODC San Jose	Aug 31, 2021 @ 17:02:35.999	65	84%		
4915604309	L4TRODOKOQ	ODC Seattle	ODC San Jose	Sep 1, 2021 @ 21:03:19.796	51	45%		
5139847071	870962KMK1	ODC Seattle	ODC San Francisco	Aug 31, 2021 @ 14:56:41.482	23	22%		
1602234061	CGU3VVPQVO	ODC Seattle	ODC Los Angeles	Sep 1, 2021 @ 17:02:49.254	2	46%		
8487544347	ILUST6EXLJ	ODC Seattle	ODC San Francisco	Sep 1, 2021 @ 12:39:28.357	13	28%		
3971724852	ZCSXKJZ0S1	ODC San Jose	ODC Los Angeles	Aug 31, 2021 @ 17:02:36.003	-5	35%		
2013799595	GASFVXP1R6	ODC San Jose	ODC Los Angeles	Aug 31, 2021 @ 14:56:41.269	25	86%		
4486363768	9WNWCRFL06	ODC San Francisco	ODC Seattle	Sep 1, 2021 @ 21:03:19.028	32	98%		

Export: Raw Formatted

[Octank] Total Fleets: 20

[Octank] Avg Distance to Destinat...: 768.511

[Octank] Max Temperature: 104

[Octank] Average Temperature: 35

[Octank] Min Temperature: -10

[Octank] Weather: Heavy Cloud, Snow Storm, Rain, Thunder & Lightning, Clear

Dashboards [Logs] Web Traffic

Full screen Share Clone Reporting Edit

[Logs] Response Codes Over Time + Annotations

[Logs] Unique Visitors vs. Average Bytes

[Logs] File Type Scatter Plot

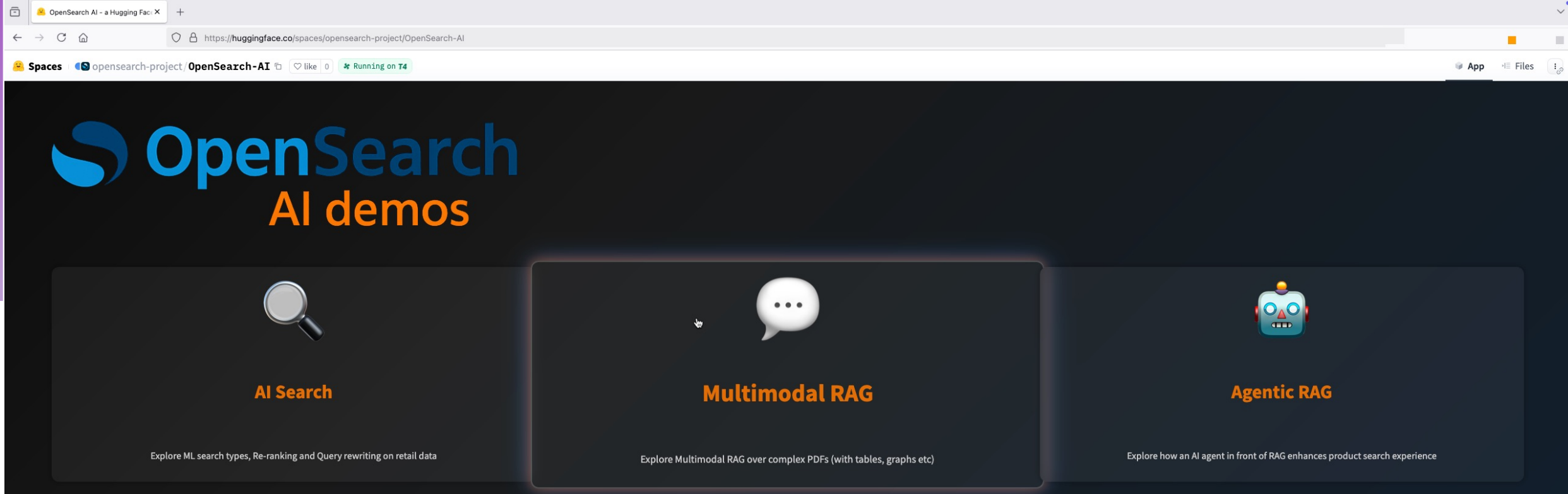
[Logs] Host, Visits and Bytes Table

Type	Bytes (Total)	Bytes (Last Hour)	Unique Visits (Total)	Unique Visits (Last Hour)
css	3MB	78KB	594 ↓	3 ↑
gz	1.7MB	0B	298 ↓	0 ↓
css	1.4MB	9.3KB	261 ↓	1 ↓
zip	1.2MB	9.7KB	202 ↓	1 ↓
deb	1.2MB	6KB	189 ↓	1 ↓
rpm	472.5KB	2.1KB	81 ↓	1 ↑

[Logs] Heatmap

[Logs] Source and Destination Sankey Chart

# Vectors & GenAI



The screenshot shows a web browser window displaying a Hugging Face Spaces demo page. The browser's address bar shows the URL <https://huggingface.co/spaces/opensearch-project/OpenSearch-AI>. The page header includes the OpenSearch logo and the text "OpenSearch AI demos". Below the header, there are three interactive demo cards:

- AI Search**: Represented by a magnifying glass icon. Description: "Explore ML search types, Re-ranking and Query rewriting on retail data".
- Multimodal RAG**: Represented by a speech bubble icon. Description: "Explore Multimodal RAG over complex PDFs (with tables, graphs etc)".
- Agentic RAG**: Represented by a robot head icon. Description: "Explore how an AI agent in front of RAG enhances product search experience".



AI-Powered Search  
with OpenSearch Demo



Agentic Search



LaunchPad

# Agentic Search + LaunchPad (OpenSearch Skills)

Demo



# Find us at



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Events



Blog



Slack



Forum



User groups

