



Fun with Redis

So much more than caching

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Agenda

- Welcome and speaker introduction
- Redis use cases
- Demo and code walkthrough
- Q&A

Today's speaker



Eric Preston

Senior Solution Architect
Redis

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What is your experience with Redis?

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Have you used Redis for other than caching?

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Do you like Node.js and JavaScript?

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Dark or Light Mode?

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Uniquely Suited to Modern Use Cases

A full range of capabilities that simplify and accelerate next generation applications



Content Caching



User Session Store



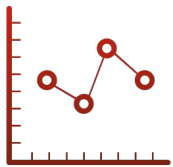
Search



High Speed Transactions



Job & Queue Management



Time Series Data



Complex Statistical Analysis



Notifications



Distributed Lock



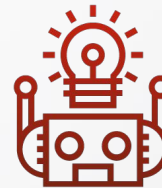
Real Time Data Ingest



Geospatial Data



Streaming Data



Machine Learning

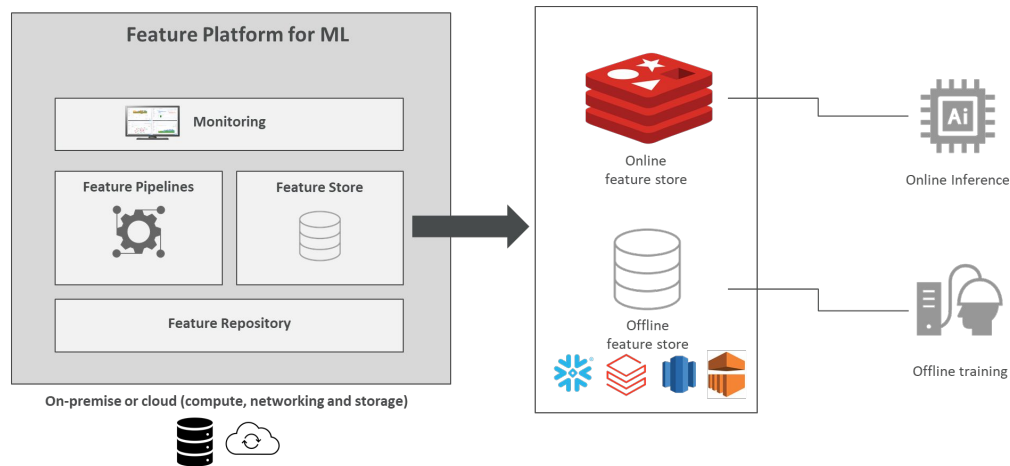


Real Time Analytics

Redis for Real-Time ML Data

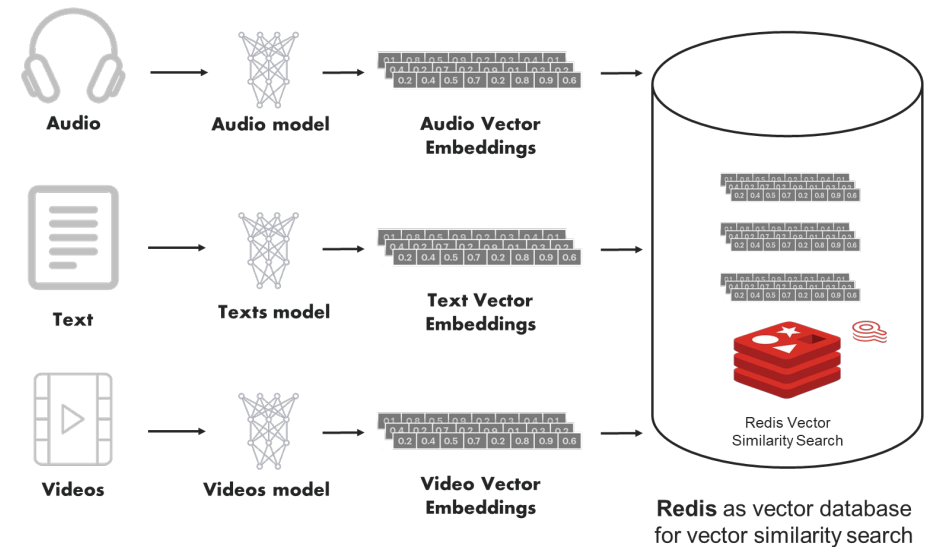
Single-digit millisecond Feature Retrieval

Redis Feature Store

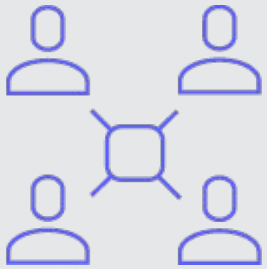


A Composable Platform for Intelligent Applications

Redis Feature Store for Vectors



Use Cases for Today



Session Store



Query and Search



Streams



Time Series

JSON



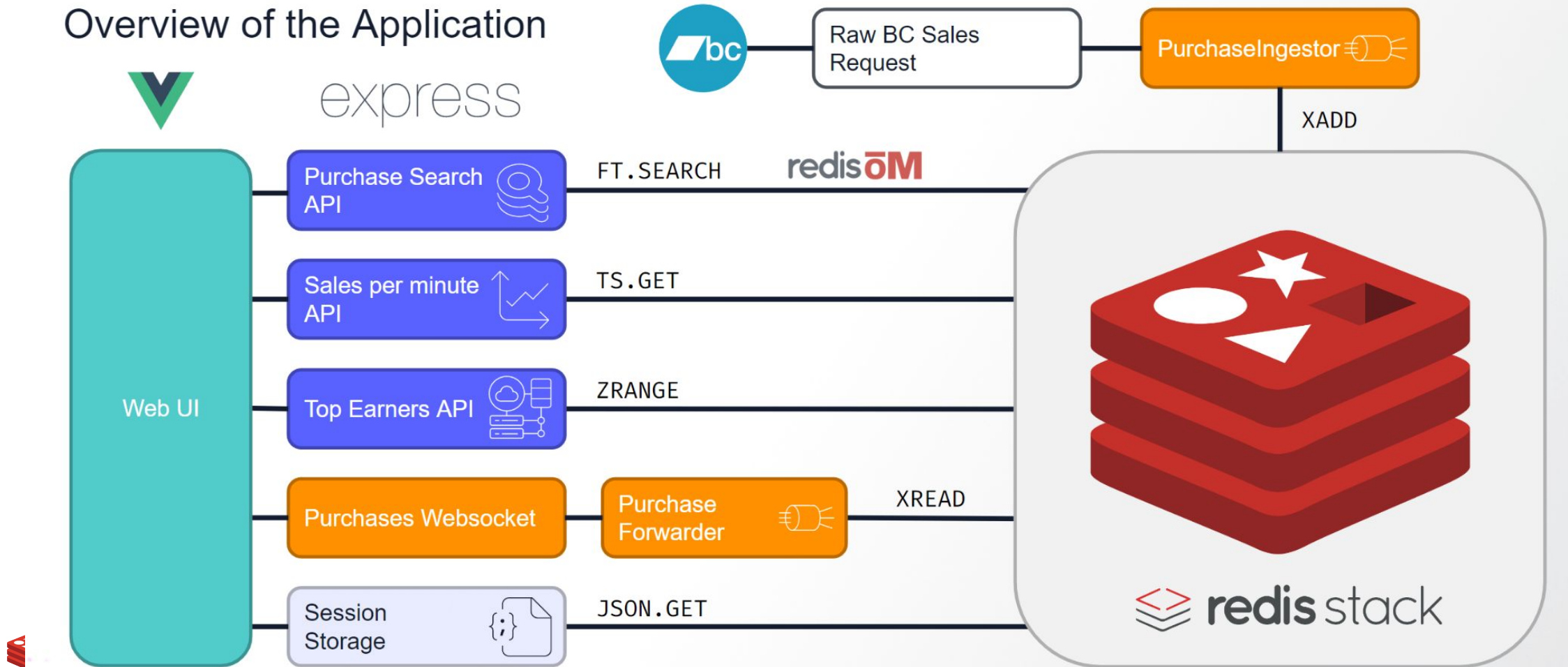
Sorted Sets



Application Architecture

Beats by Redis

Overview of the Application



Incoming Data

```
{  
  "utc_date": 1691166738,  
  "artist_name": "GORE",  
  "item_type": "p",  
  "item_description": "Limited Edition Cassette",  
  "album_title": "肉と血を超えて",  
  "slug_type": "a",  
  "track_album_slug_text": "null",  
  "currency": "USD",  
  "amount_paid": 12,  
  "item_price": 12,  
  "amount_paid_usd": 12,  
  "country": "United States",  
  "art_id": "null",  
  "releases": "null",  
  "package_image_id": "33093824",  
  "url": "//celadonplaza.bandcamp.com/album/--12",  
  "country_code": "us",  
  "amount_paid_fmt": "$12.50",  
  "art_url": "http: /f4.bcbits.com/img/0033093824_37.jpg",  
  "utc_date_raw": 1691166738.7452447  
}
```



Demo Time

Redis Cloud

0
26 MB
58 K
7

Filter by Key Name or Pattern

+ Key

Total: 58 269

HASH

dob_ssn 19561129_331creditscore

No limit

224 B

HASH

dob_ssn 19950525_2197creditscore

No limit

223 B

HASH

zipcode nG creditscore

No limit

202 B

NONE

zipcode Acreditscore

2 s

-

NONE

zipcode creditscore

2 s

-

HASH

dob_ssn 19600221_6870creditscore

No limit

224 B

NONE

zipcode creditscore

2 s

-

Field

Value

_ts:zipcode_features	OLDTOWN
2 o	ID
m&	PRIMARY
W	

Profiler

II

```

08:34:14.849 [0 69.159.84.222:56487] "info"
08:34:15.277 [0 69.159.84.222:56503] "AUTH" "azN04ov98VOUPyKdhlw33Pw4M2ANatJy"
08:34:15.305 [0 69.159.84.222:56503] "HMGET" "\x02\x00\x00\x00zipcode\x04\x00\x00\x04\x00\x00\x00\x9do\x01\x00creditscore" "\Wx9S"
"\xf9\xf7\xe8\xe6" "\x84\x1a\xff\x9d" "\xb7w\xbo\x0c" ".ts:zipcode_features"
08:34:15.337 [0 69.159.84.222:56503] "HMGET" "\x02\x00\x00\x00dob_ssn\x02\x00\x00\x00\x00\x001960319_3643creditscore" "\xb7x0"
"\xf5\xfd\x8f\x3" "V$8n" "\xf0\xee;" "\xd6_0" "%\xda\xf9\x04" "b\x80\x9f\x0" ".ts:credit_history"
08:34:15.381 [0 69.159.84.222:56503] "HMGET" "\x02\x00\x00\x00zipcode\x04\x00\x00\x04\x00\x00\x00\x9do\x01\x00creditscore" "\Wx9S"
"\xf9\xf7\xe8\xe6" "\x84\x1a\xff\x9d" "\xb7w\xbo\x0c" ".ts:zipcode_features"
08:34:15.413 [0 69.159.84.222:56503] "HMGET" "\x02\x00\x00\x00dob_ssn\x02\x00\x00\x00\x00\x001960319_3643creditscore" "\xb7x0"
"\xf5\xfd\x8f\x3" "V$8n" "\xf0\xee;" "\xd6_0" "%\xda\xf9\x04" "b\x80\x9f\x0" ".ts:credit_history"
08:34:19.857 [0 69.159.84.222:56487] "info"

```

> CLI

Command Helper

Profiler


redis

Menu

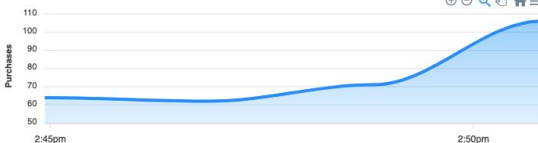
Purchase overview

Bandcamp Purchases

Beats By Redis / Purchases

Purchases Overview

Purchases per minute



Top Five Earners



Les Big Byrd

Achings

Bonnie "Prince" Billy

Precocious Neophyte

Various Artists

Search transactions

Type to search

Most recent purchases

	Artist Name	Album Title	Sold for	Country
	Mac Declos	"Hard work always pays off"	€1.60	 Netherlands
				

Redis Links

- Today's demo: <https://github.com/redis-developer/beats-by-redis>
- Youtube: <https://youtu.be/0jkh3qFBUPs>
- Redis Labs University: <http://university.redislabs.com>
 - Courses: Data Structures, RediSearch, Streams, Java, Python, .NET, ...
- Demos
 - <https://launchpad.redis.com>
- Vector Database & Feature Store
 - <https://github.com/RedisVentures>
 - <https://ecommerce.redisventures.com>
 - <https://docsearch.redisventures.com>
- Discord Server: <https://discord.gg/redis>
- Docs, white papers, sample code: <http://redis.io> & <http://redis.com>

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Audience Q&A Session

Download a copy of today's presentation



Thank You

