



AWS
re:Invent

D A T 4 0 7 - R 1

Get started with Amazon ElastiCache in 60 minutes

Ravi Kumar Balachandran

Manager, Software Development
Amazon ElastiCache
Amazon Web Services

Agenda

- Real-time applications
- Amazon ElastiCache
- Demo
- Q&A

Real-time apps need low latency and high throughput



Mobile apps



Web apps



E-commerce



Gaming or location apps

Users: **1 million+**
Data volume: **TB**
Locality: **Global**
Performance: **Microseconds**
Request rate: **Millions**
Access: **Mobile, IoT, and devices**
Scale: **Up/down, in/out**
Economics: **Pay as you go**
Developer access: **Open APIs**

About Redis



Fast

<1 ms latency for most commands

Open source

Simple

Highly available

Replication

Atomic operations

Supports transactions

In-memory key-value store

Powerful

~200 commands, Lua scripting,
geospatial, and pub/sub

Various data structures

Strings, lists, hashes, sets, sorted sets,
streams, bitmaps, and HyperLogLogs

Backup/restore

Enables snapshotting

Amazon ElastiCache for Redis

Fully-managed, Redis compatible, in-memory data store in the cloud



Extreme performance

In-memory data store and cache for
sub-millisecond response times



Fully managed

AWS manages all hardware and software
setup, configuration, monitoring



Easily scalable

Read scaling with replicas
Write and memory scaling with sharding
Online scaling



Reliable

Multi-AZ

Deep monitoring
Automatic failover



Secure and compliant

Amazon VPC

HIPAA, PCI, FedRAMP
Encryption at-rest and in-transit
Authentication



Redis compatible

Redis 5.0.5 Support
Redis clients compatible

Demo: Welp

Thank you!



Please complete the session
survey in the mobile app.