
AWS
re:Invent
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PRT088

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5 great ways to reimagine your data layer with Redis

John Noonan

Senior Product Marketing Manager
Redis

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Agenda

What is Redis?

What is the data layer?

The limitations of today's data layer

5 ways Redis can help you reimagine your data layer to shatter these limitations

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What is Redis?

- In-memory datastore
- Flexible data models
- Open-source and enterprise
- Used and loved by millions
- Essential component of data layer

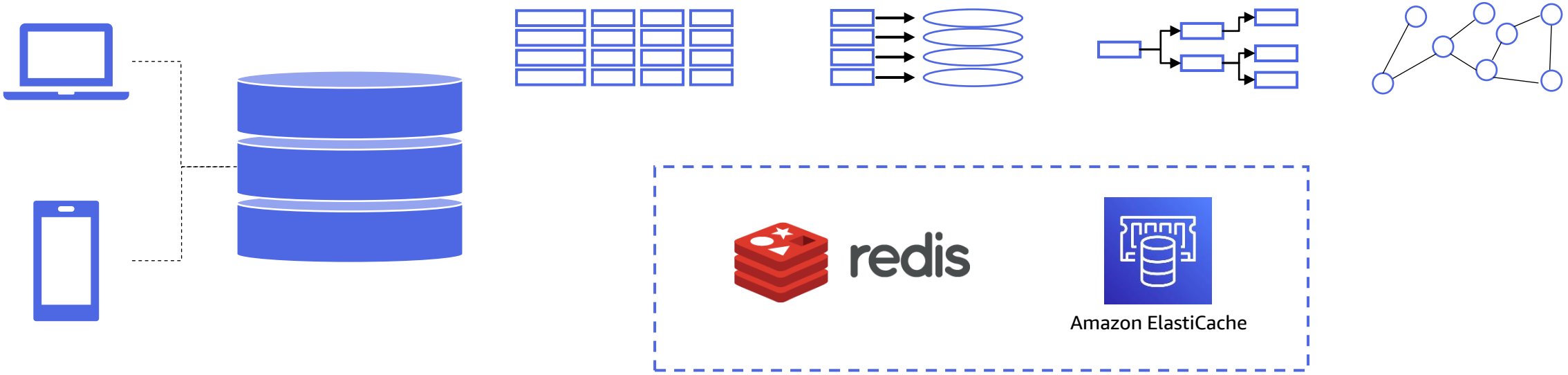


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What is the data layer?

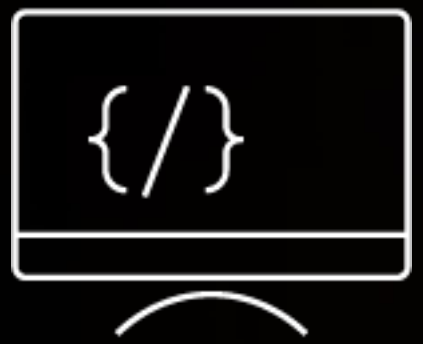
The collection of technologies and services that process, deliver, and store data for applications.



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Who is responsible for the data layer?

Developers



DevOps



Architects



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What are their challenges?

Developers	DevOps	Architects
Complexity impacts velocity	Reliability issues	Agility to react to business
Focus on coding, not infrastructure	Complexity breeds risk	Ensuring scalability
	Lack of expert support when issues arise	Keeping costs under control

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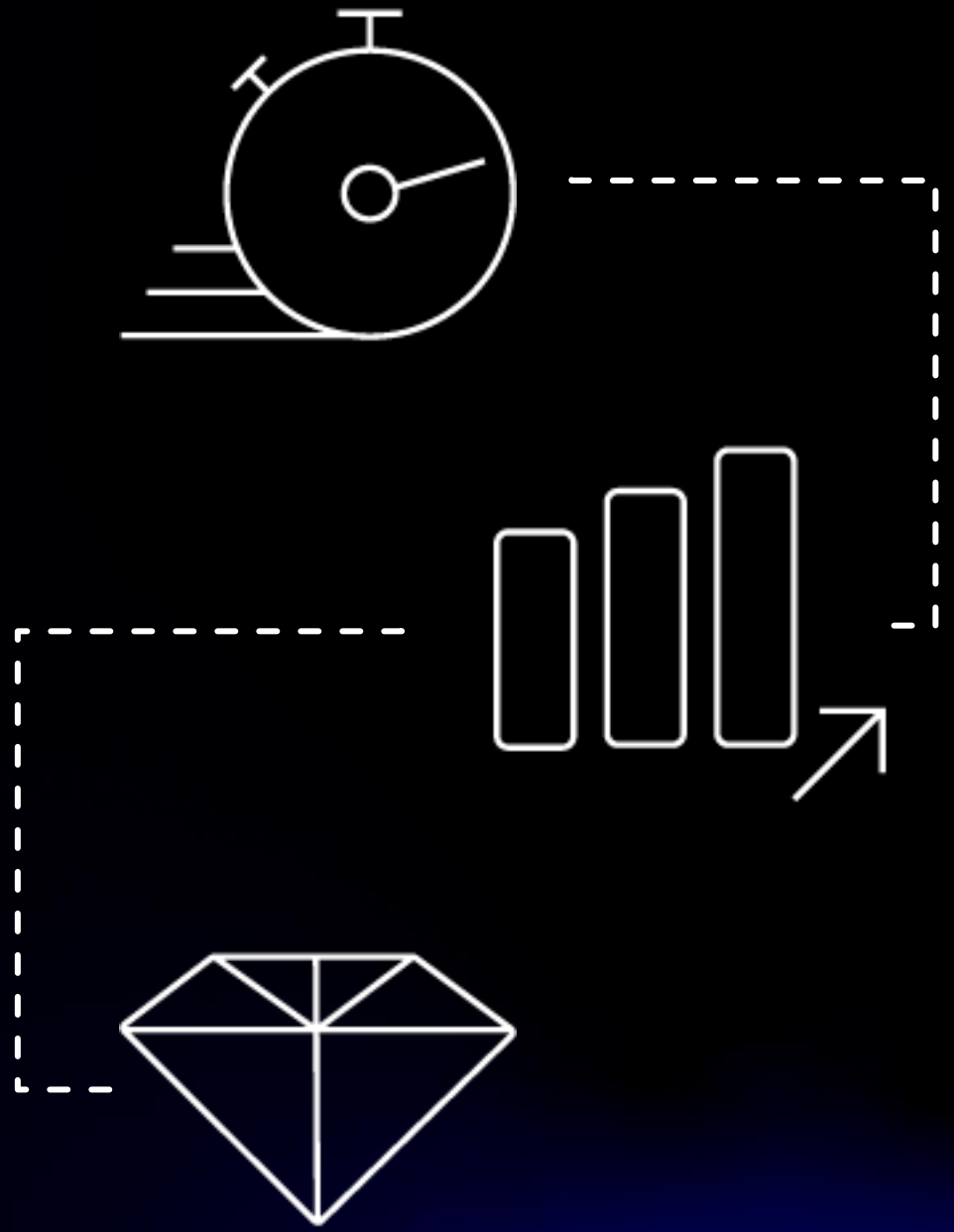
Limitations of today's data layer

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Performance

Challenge to meet application needs for

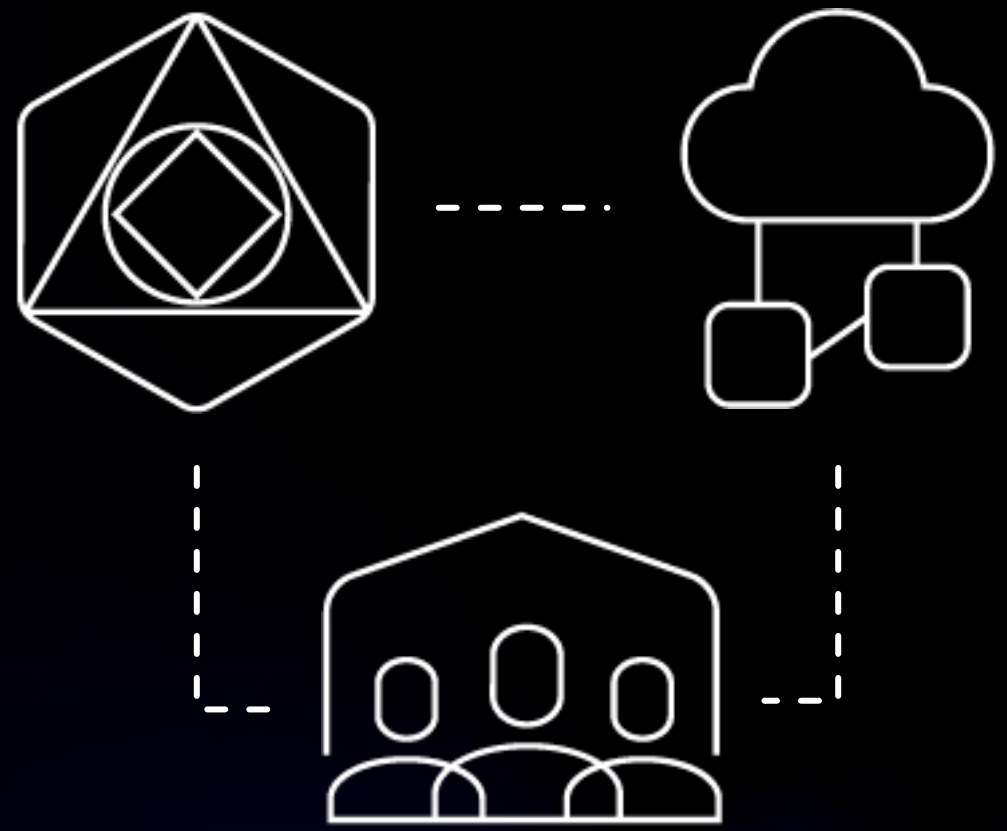
- Speed
- Scale
- Resilience



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Complexity

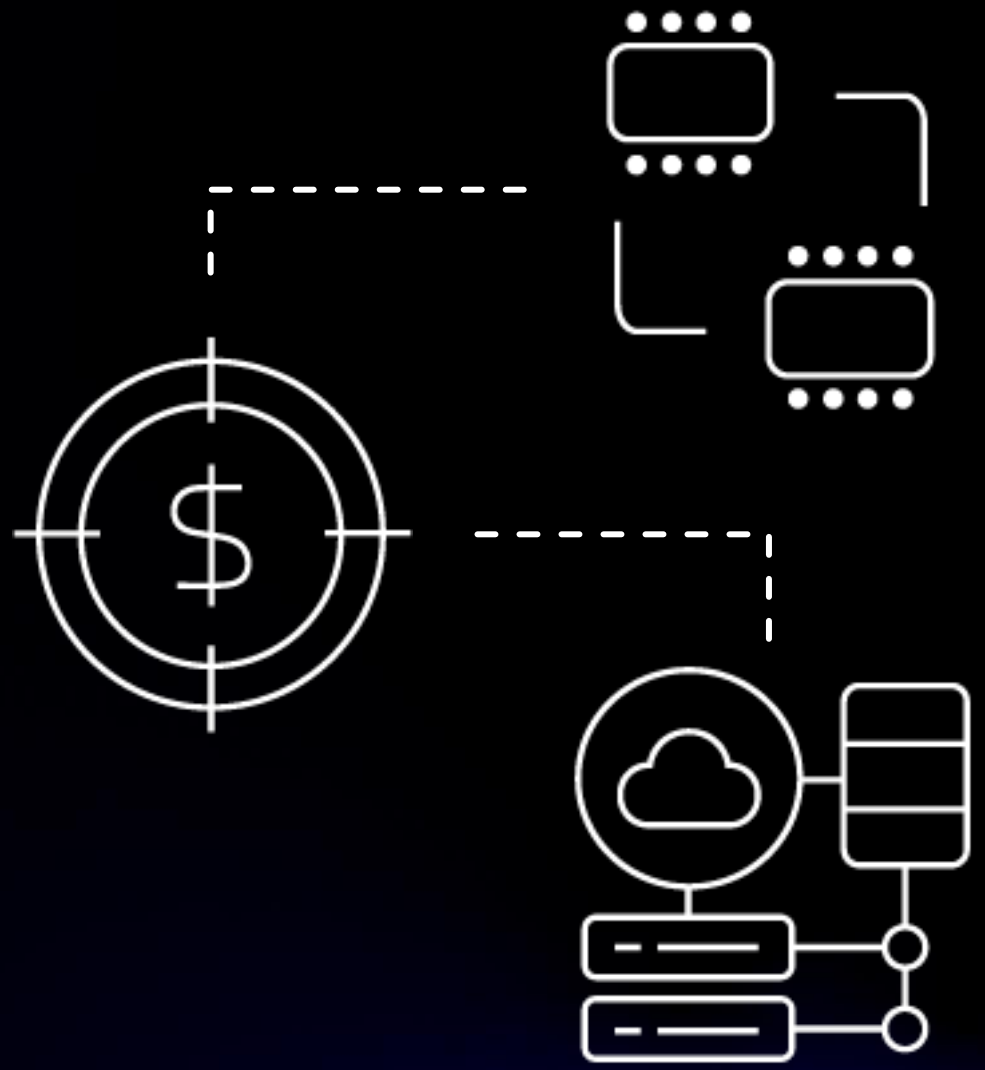
- Services for each data type, use case, and deployment environment
- Added risk
- Difficult to manage



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Costs

- Optimized performance =/= optimized costs
- Data storage
- Spending on a multitude of services
- Can become complex and expensive to manage



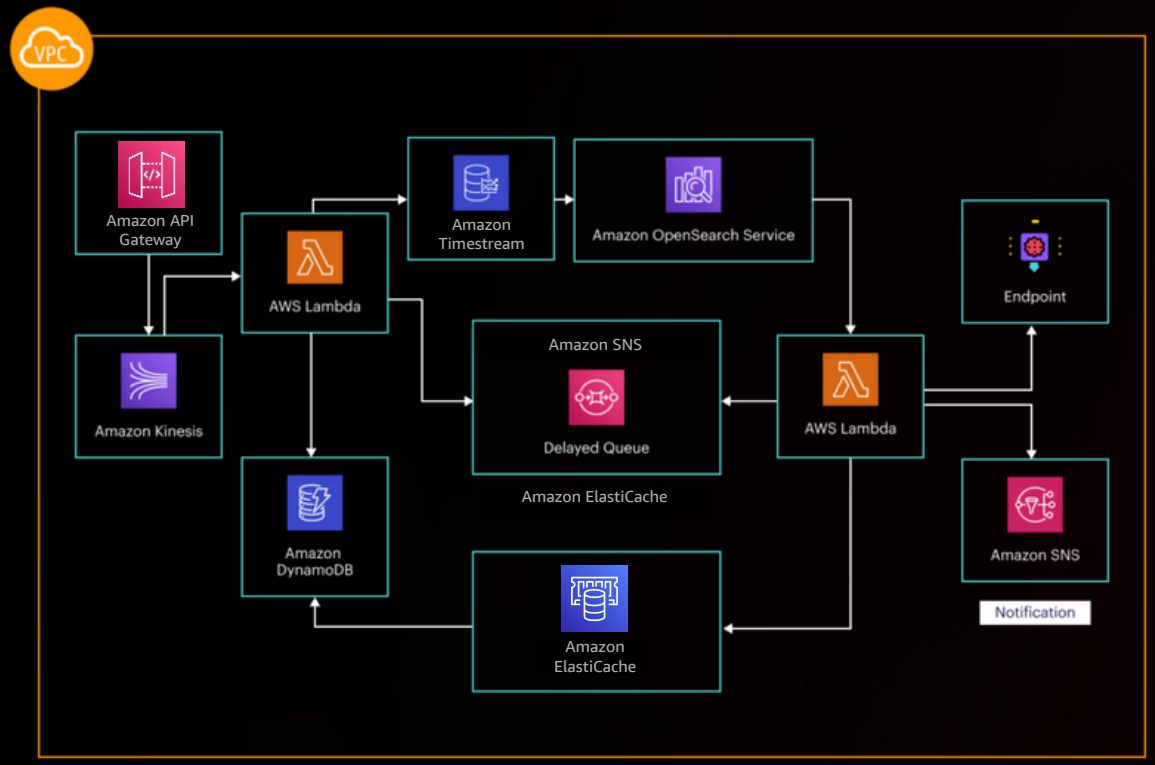
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5 ways to overcome these limitations and reimagine your data layer with Redis

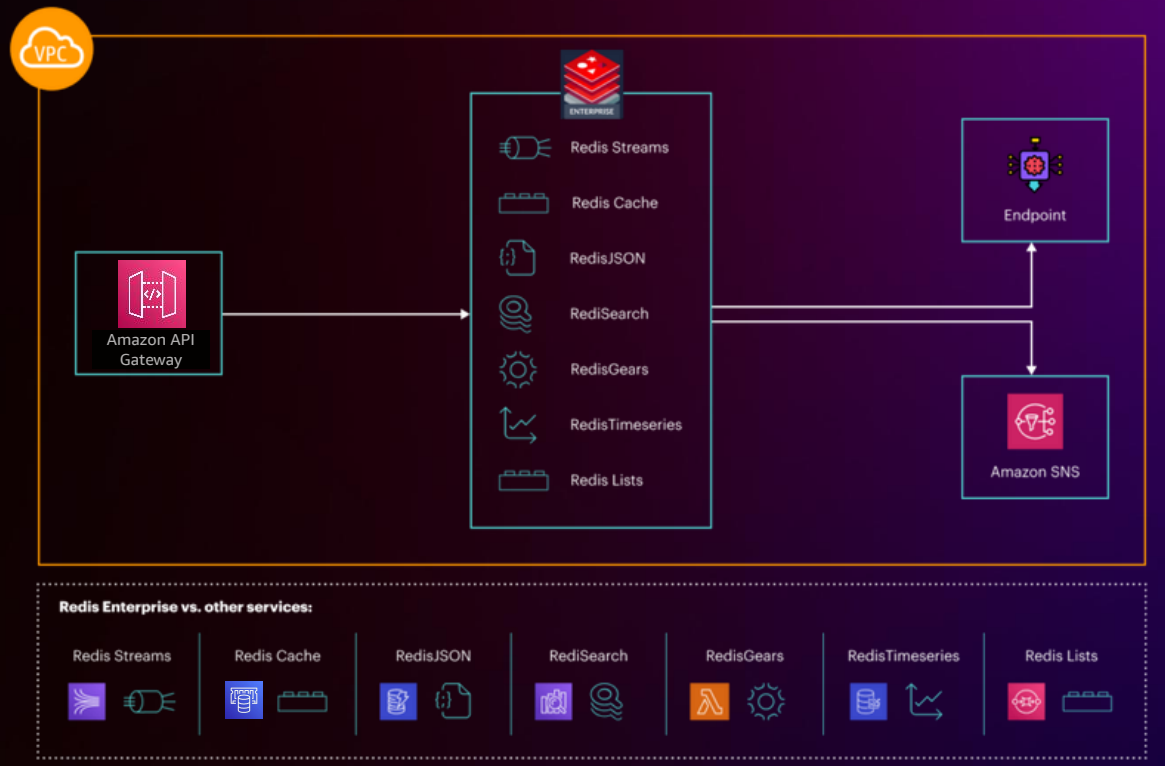
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1. Pioneering a full real-time data platform

Complex platform



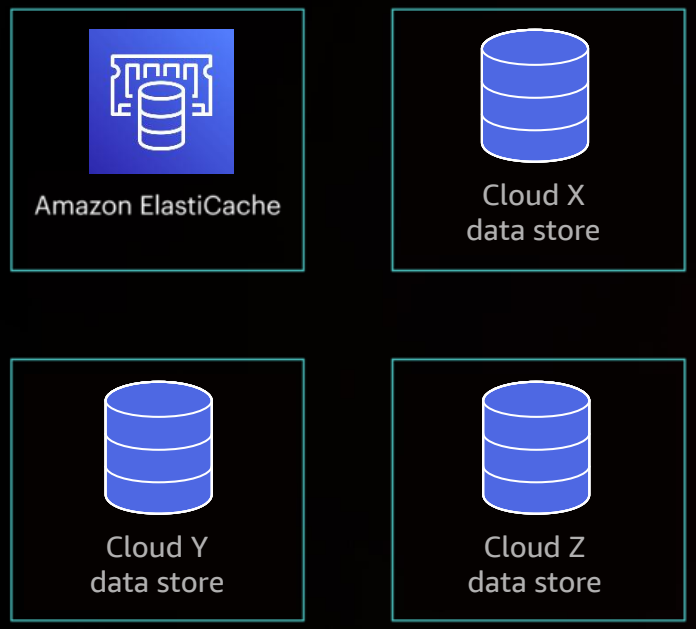
Simple platform



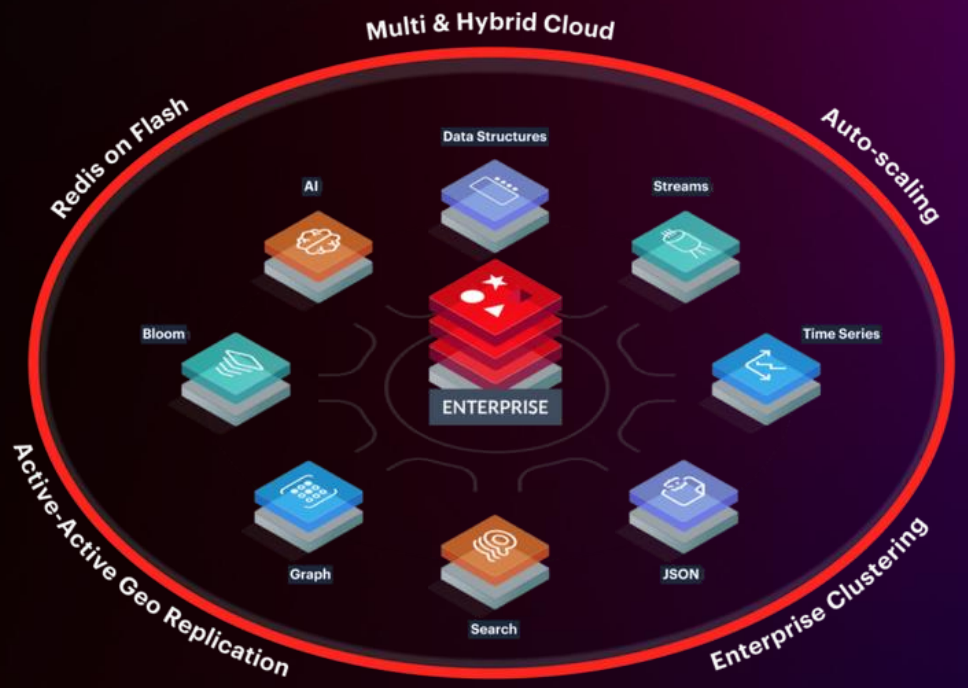
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2. Unifying the cache and primary database

Cache only

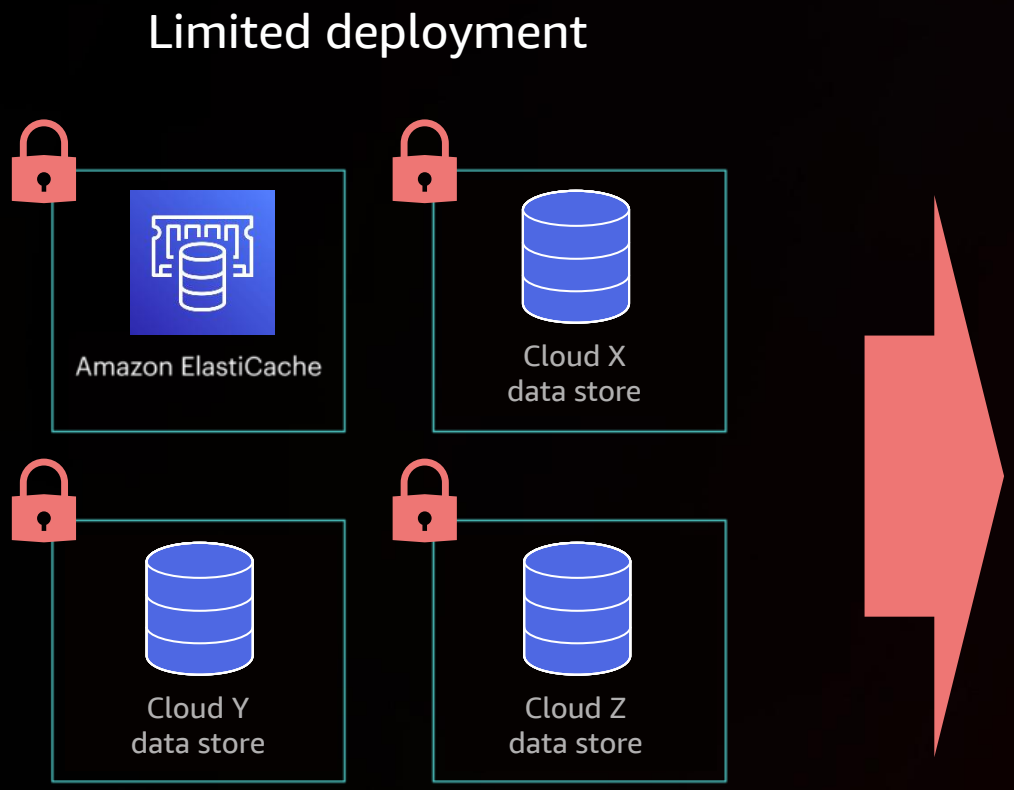


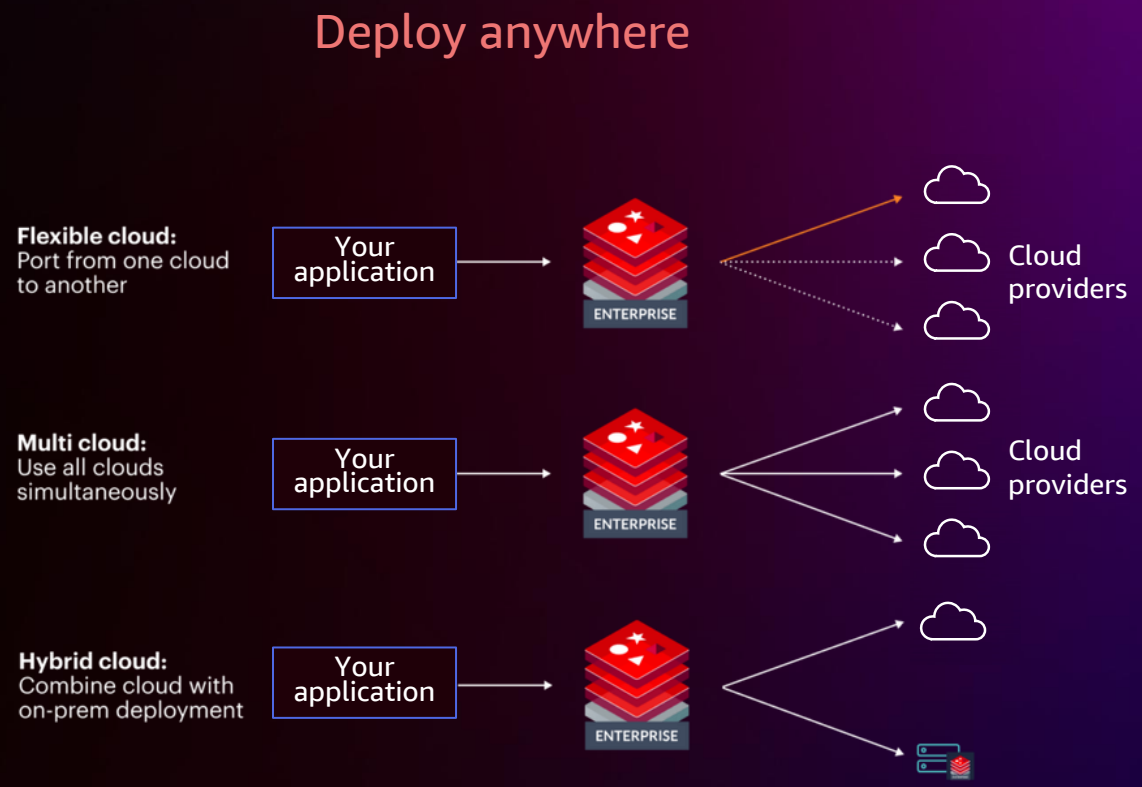
Cache and primary database



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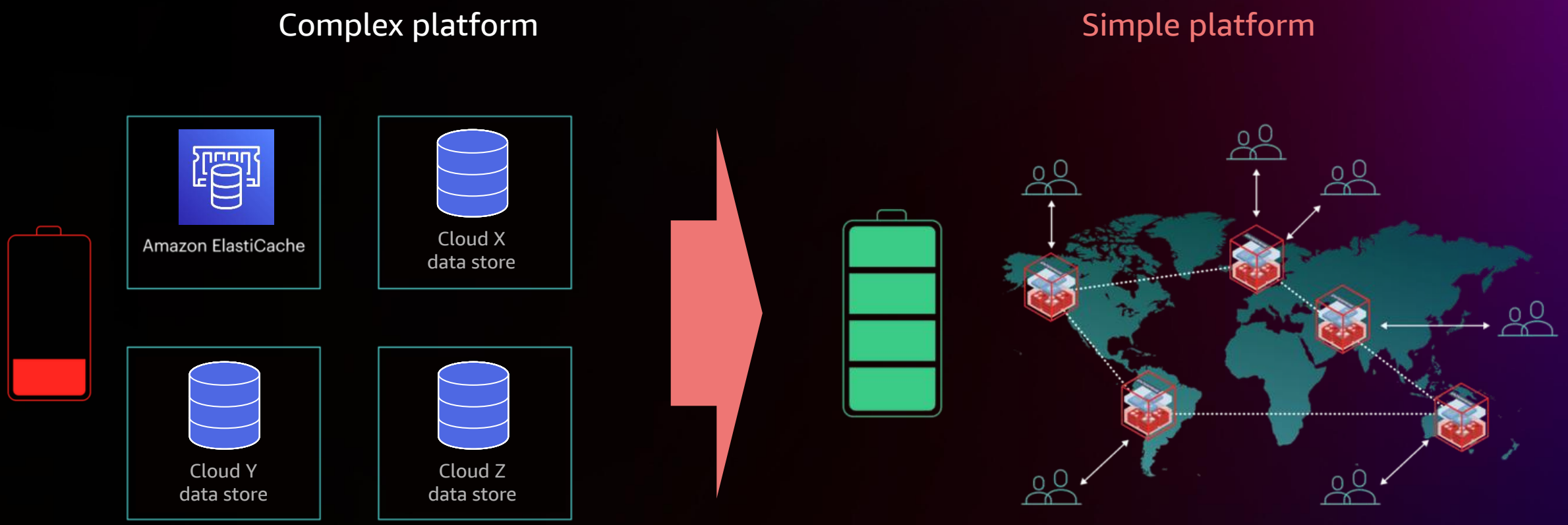
3. Providing flexibility to deploy anywhere





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4. Delivering enterprise-grade performance

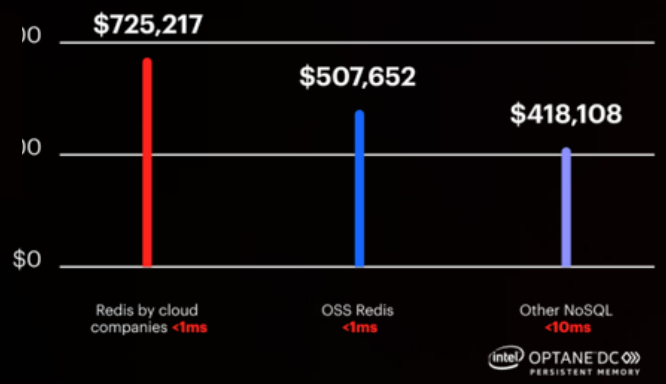


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5. Eliminating performance/cost tradeoffs

Expensive

- Tiering



Cost-effective

- Improved CPU utilization
- Multi-tenancy
- Tiering



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Thank you!

John Noonan
John.Noonan@redis.com
linkedin.com/in/j-noonan/



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