AWS re:Invent

NOV. 29 – DEC. 3, 2021 | LAS VEGAS, NV

BSI202

Modernize your BI and reporting with Amazon QuickSight

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Agenda

Challenges with traditional BI

Amazon QuickSight’s modern BI approach

Serving the next generation of BI users

APTP’s Tableau to QuickSight journey

Amazon Finance’s Oracle BI to QuickSight journey

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The next wave of reinvention will be driven by data

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The business value of a modern data strategy

By making 10% more data accessible, a typical Fortune 1000 company will see a **$65 million increase in net income**[1]

415%
five-year ROI[2]

48%
reduced total cost of operations[2]

[1]Read the article on Forbes.com | [2]Read the report

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Three core business outcomes

Improve operational efficiency

Increase agility, run your business more efficiently, and provide a better experience for customers by moving data to the cloud

Make more informed decisions

Inform business decision-making with more meaningful insights by bringing together the full picture of data across your organization

Accelerate innovation

Unlocks opportunities that were either too difficult or impossible to do before by automating processes with AI and machine learning

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A data-driven organization means...

Data is an organizational asset

No longer kept in silos or as the property of individual departments

Data is accessible

Available easily and securely to anyone who needs access to it

Data is put to work

Used in analytics and ML to make better decisions, create efficiencies, and drive new innovations

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The pandemic last year also taught us that

To survive

Customers are making better and faster decisions to adapt with great urgency to changing market dynamics and customer preferences

Data is critical to making faster, informed decisions

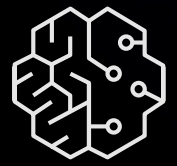
To thrive

Customers are modernizing their data & analytics infrastructure, putting data to work,
and inventing new customer experiences

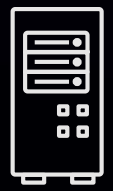
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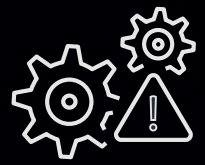
Challenges with existing BI platforms



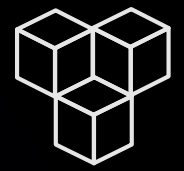
Lack of advanced features



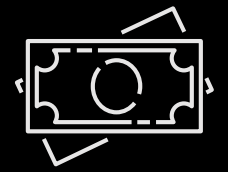
Hard to scale



Don’t integrate well



Resource-intensive



Restrictive pricing

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Amazon QuickSight

First Analytics Platform built for the Cloud

Insights on demand



Ask questions using NL

Anomaly Detection and Forecasting

Bring your own model from Amazon SageMaker

Auto scaling and serverless



Deploy globally to 100k's of users without provisioning servers

Built-in High Availability

AWS does all the work

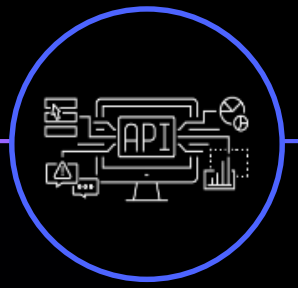
Deeply integrated with AWS services



Secure, private access to AWS data

Integrated S3 data lake permissions

Embeddable



Share insights with external parties

Rich set of APIs and SDKs

Multi-tenant & secure

Low Cost



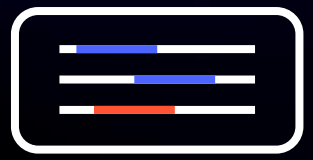
Cost effective at any scale

Usage-based & fixed-price options

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Augment your data with machine learning



Auto narratives

Summarize your business metrics in plain language



ML predictions

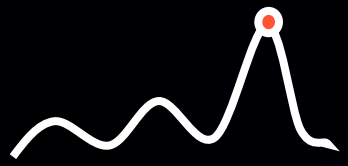
Visualize and build predictive dashboards with Amazon SageMaker models

NEW



Q

Ask questions using natural language



Anomaly detection

Discover unexpected trends and outliers against millions of business metrics



Forecasting

Machine learning forecasting with point-and-click simplicity

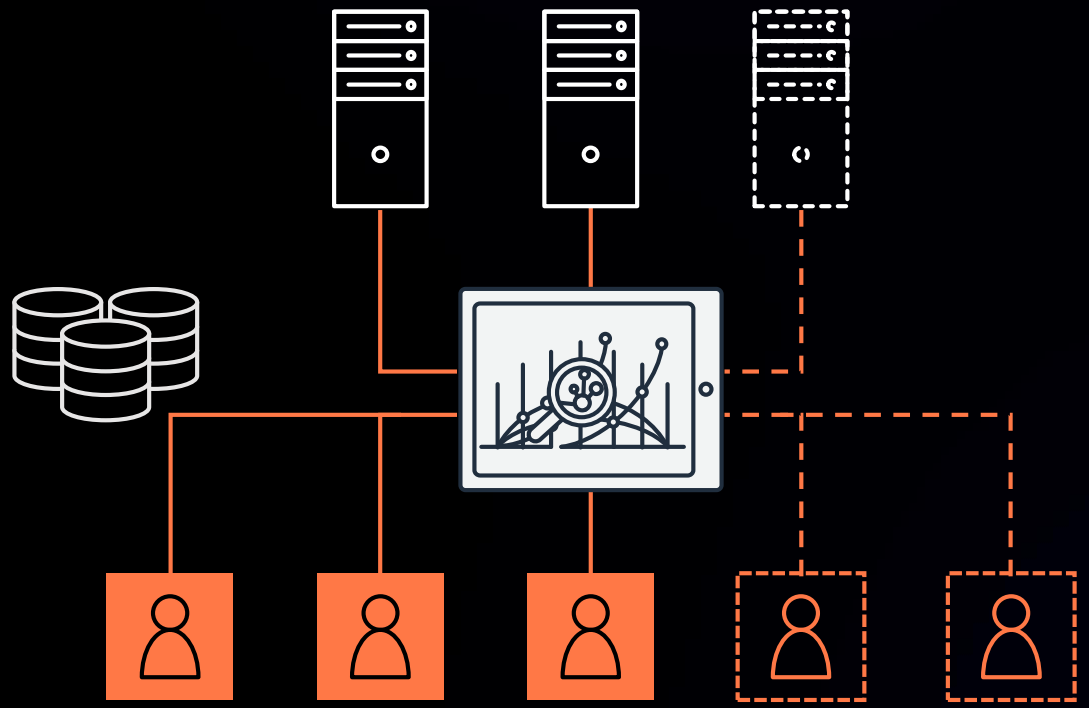
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Why serverless?

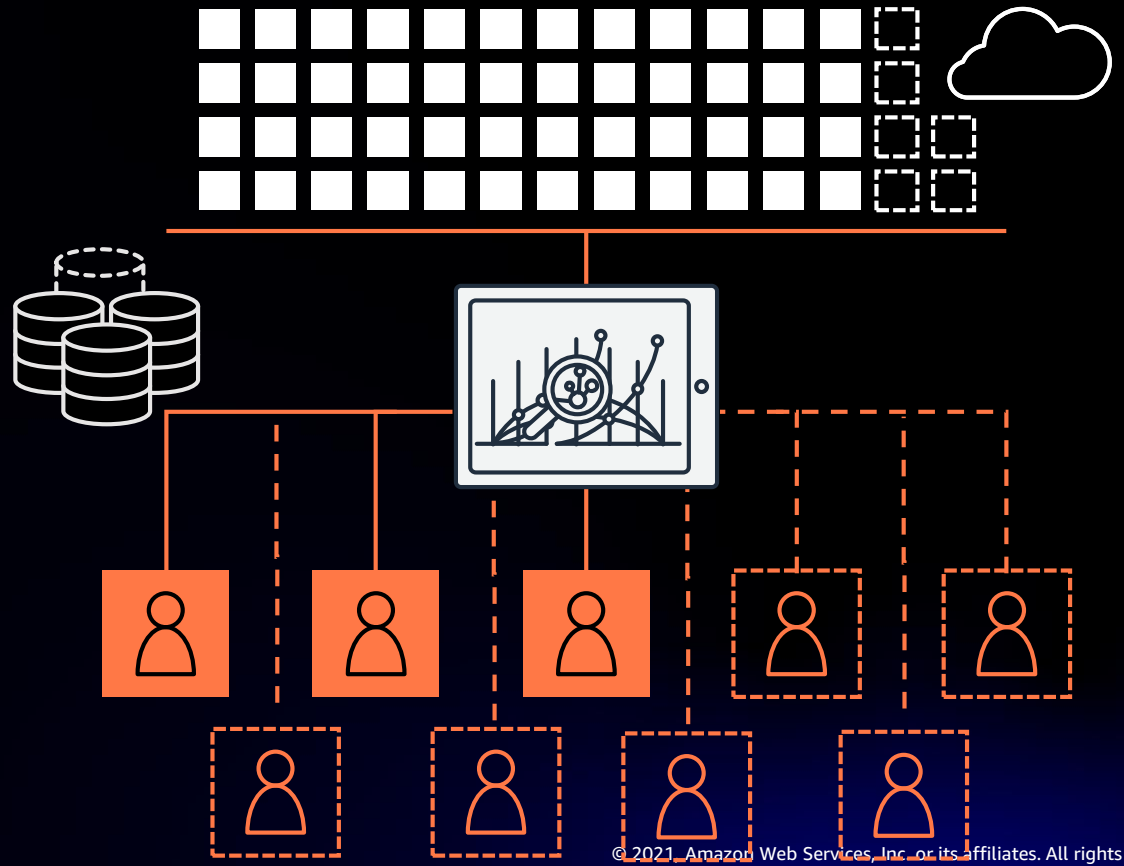
Traditional BI (Server-based)

- Fixed amount of hardware
- More concurrency -> slower performance
- More capacity -> higher cost



QuickSight (Serverless)

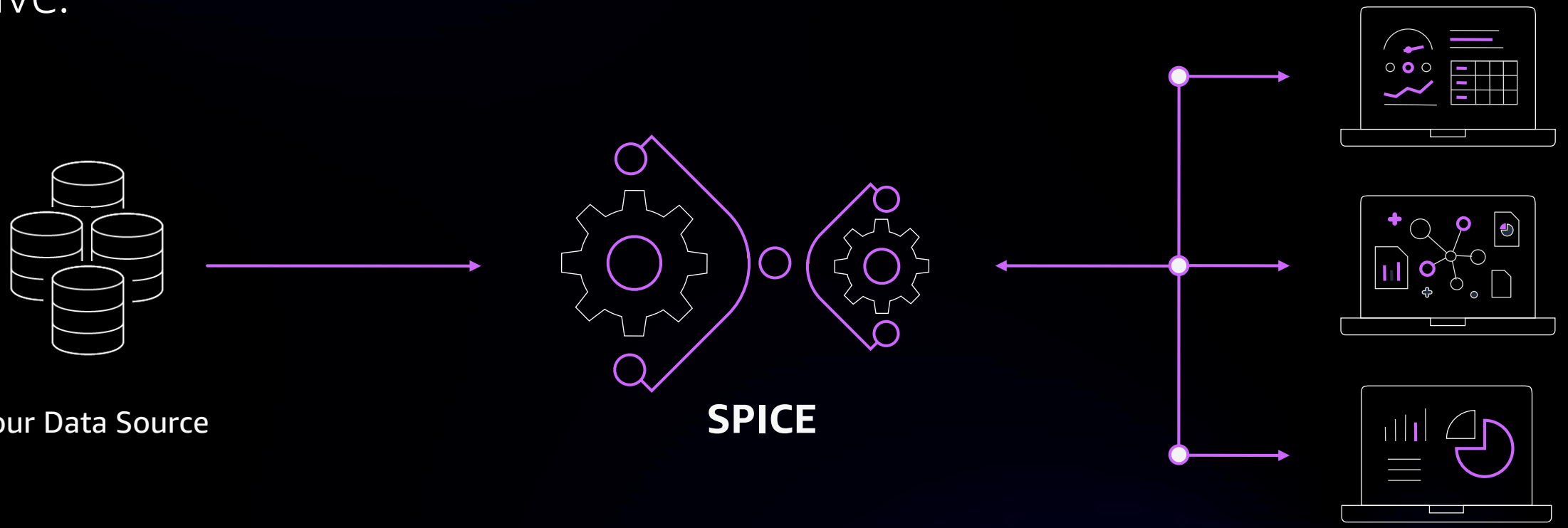
- Auto scaling
- Consistent performance no matter the concurrency
- Pricing is truly all-in



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SPICE

QuickSight is powered by SPICE, a super-fast calculation engine that delivers performance and scale, regardless of how many users are active.



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APTP's journey to QuickSight

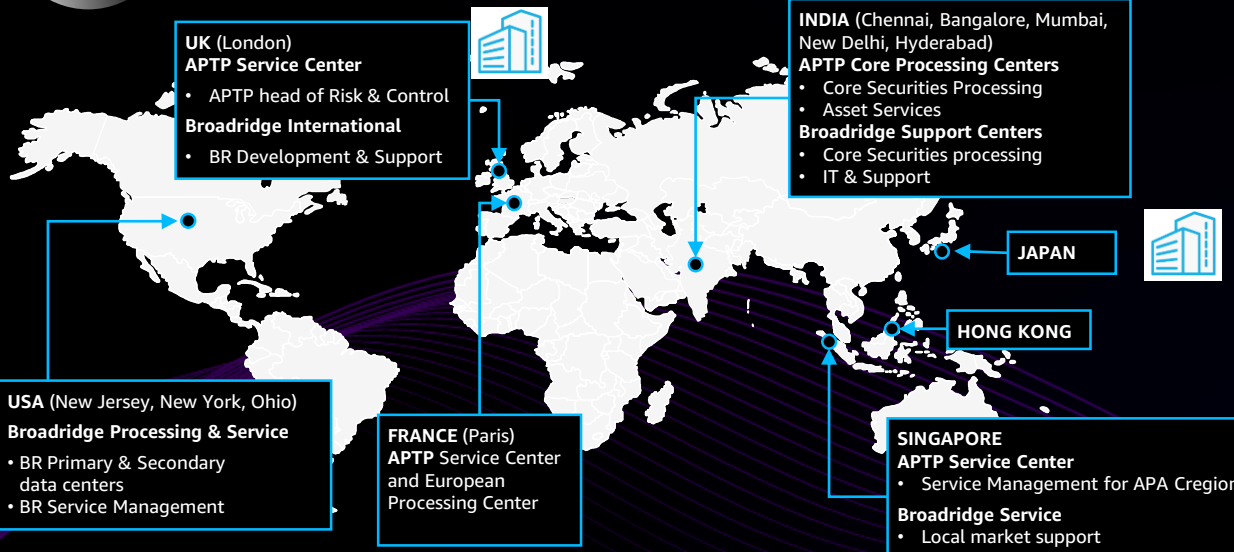
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ACCENTURE POST TRADE PROCESSING (APTP)
PLATFORM AT A GLANCE

ONLY "running" Utility service in Post Trade Settlement space across markets and investment products

2,700,000+ transactions processed per day
400,000+ income claims per year
700,000+ positions managed
9,000 corporate actions each month

Direct Settlement for US, UK, Japan, Germany, Singapore, Hong Kong, Euroclear, Clearstream



1050 Operations &
350 IT professionals in Paris, London, and India

24x7
support for trading centers in London, New York, Paris, Asia, Middle East

Settlement in
70+ markets

Supporting **multiple business activities**: Market-Making, Brokerage, Issuance, Prime Brokerage

Instruments

Securities: Equities, DRs, Fixed Income, Funds
Money Market: Certificates of Deposit, CPs
Derivatives
Forex

Activities & Transactions Types

Cash Trading (agency, prop)
Securities Financing
Prime Brokerage
Global Custody



i. **Tier-1 French Bank**
ii. **Tier-2 Dutch Bank**
iii. **Tier-1 UK Bank**

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Why QuickSight?



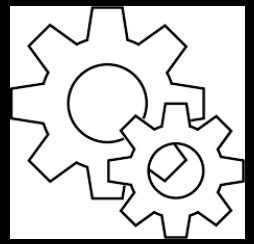
No servers to manage

QuickSight is a fully managed cloud service



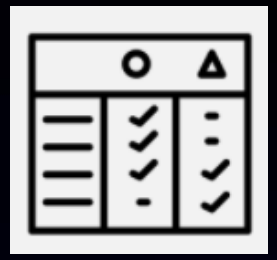
Pay per use

QuickSight allows dashboards and reports to be shared to users, and we only pay when users access them



Fully integrated

QuickSight integrates with any other AWS services and simplifies building end-to-end cloud analytics



Fully loaded

During our comparison study, we found that QuickSight offered most of the must-want features that our OPS Backoffice users were using daily

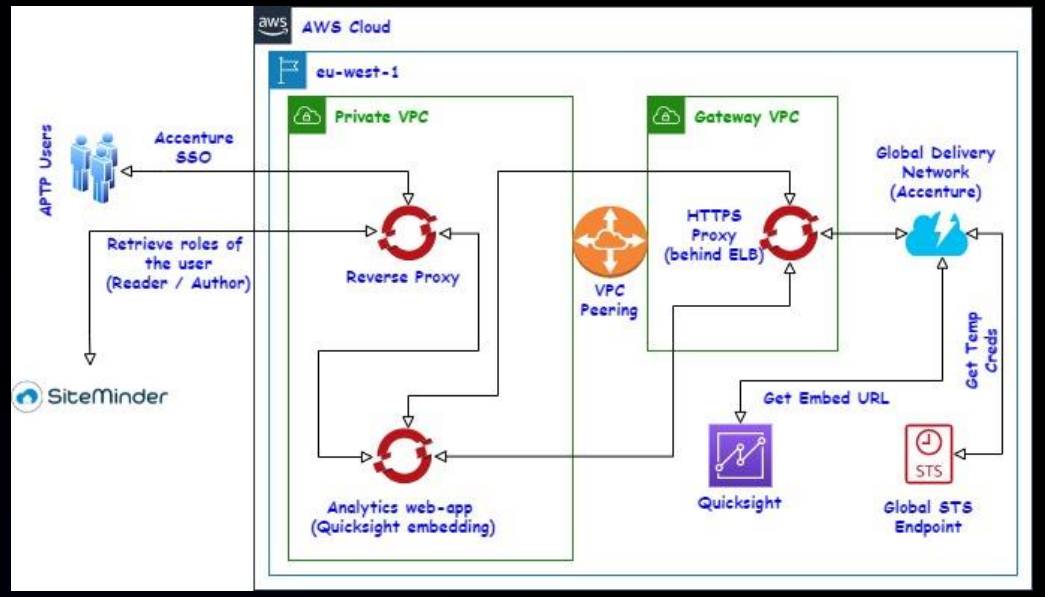
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How QuickSight is implemented?

- APTP has 1,000+ business operations users with about 30% of them using near-real time analytics dashboards to increase business efficiency, manage workload, and reduce intra-day risks

- APTP has implemented QuickSight Embedded Analytics in a web app, which users can access instead of enabling console-based access for the entire userbase
  - Dashboard embedding: Users can view read-only, pregenerated reports
  - Session embedding: Users can author reports on demand basis



- Developed QuickSight SDK/CLI automation framework to roll out BI report dashboards using templates

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Benefits APTP has seen on the ground

30–40 % reduction in BI operating cost

No upfront license costs

Easy integration with Amazon S3, Amazon Athena, Amazon Redshift, and Amazon RDS

Easy scalability for growing user base

Embedded analytics

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Questions?

Reach out to me:
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Amazon Finance Tech's Oracle BI to QuickSight journey

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Thank you!

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