CLOUD DAY 2020

29 OTTOBRE • #CLOUDDAY2020

TRASFORMA I DATI IN VALORE CON AMAZON QUICKSIGHT

Francesco Diaz
aws @francedit

Kudos

Microsoft

managed/designs

AWS User Group - Italy

GDG Cloud Milano

AWS Data and Analytics Solutions

Data, Visualization, Engagement, & Machine Learning

Data Exchange | QuickSight | Pinpoint | SageMaker | Comprehend | Lex | Polly | Rekognition | Translate

Analytics

Redshift | EMR (Spark & Presto) | AWS Glue (Spark & Python) | Athena | Elasticsearch Service | Kinesis Data Analytics

Data Lake Infrastructure & Management

S3/Glacier | Lake Formation | AWS Glue

Data Movement

Database Migration Service | Snowball | Snowmobile | Kinesis Data Firehose | Kinesis Data Streams | Managed Streaming for Kafka

Create beautiful, interactive dashboards.

- Add rich interactivity like filters, drill downs, zooming, and more
- Blazing fast navigation
- Accessible on any device
- Data Refresh
- Publish to everyone with a click

The Amazon QuickSight Difference

Cloud native = No servers = Auto-Scale

No servers or software to manage, maintain, deploy. Start with 10s of users and scale to 10s of 1000s

Fast, consistent performance

Fast, predictable performance for every time. Concurrent users or increased interactions do not slow down the system.

Fully Integrated w/AWS

Build end-to-end analytics in AWS. Secure private VPC access, Fine-grained access control, ML integrations

ML-insights

Contextual, relevant insights with ML-powered anomaly detection, forecasting, alerts and customizable narratives.

Secure and Global

End-to-end encryption. Native High Availability. 10 Global regions. HIPAA, PCI, ISO, SOC and FedRamp eligibility

Insights for Everyone

Provide access to all users, pay only for usage. No upfront costs, no charges for inactive users

Easy to develop and maintain

Design with QuickSight, integrate with APIs. Secure data with row-level security and authenticate seamlessly via SAML SSO

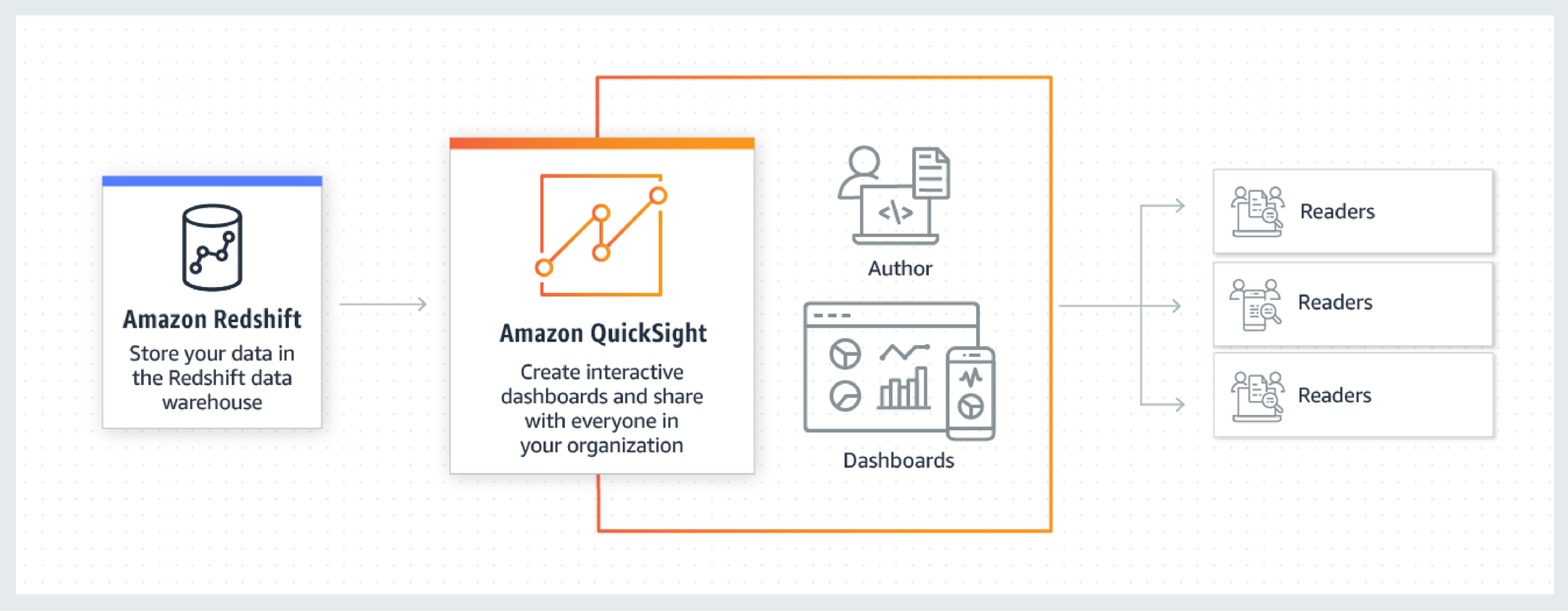
Customize and Embed

Embed into applications and enable analytics in hours, not months or years. Use themes to match application/corporate branding.

ADMINISTRATOR ← *BENEFITS* → *END-USER*

How QuickSight Works

QuickSight allows you to connect to your data sources, and create dashboards that can be securely shared across your organization.

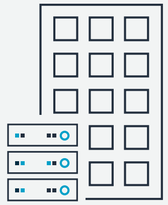


Connect to your data, wherever it is

QuickSight is natively integrated with AWS data sources, as well as on-premises and hosted databases and third party business applications

On-premises

Securely connect to on-premise databases and flat files like Excel and CSV



- Excel
- CSV
- Teradata
- MySQL
- SQL Server
- PostgreSQL

In the cloud

Connect to hosted database, big data formats, and secure VPCs

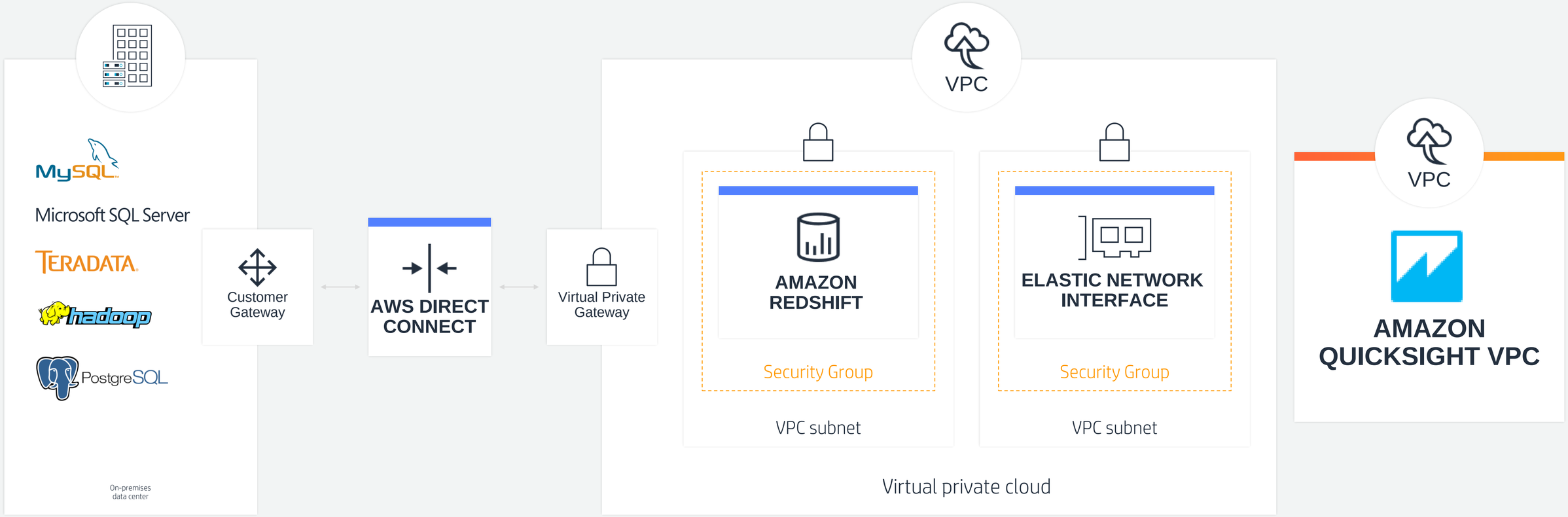
- Redshift
- RDS
- S3
- Athena
- Aurora
- Teradata
- MySQL
- Presto
- Spark
- SQL Server
- Postgre SQL
- MariaDB
- Snowflake
- IoT Analytics

Applications

Connect directly to third party business applications

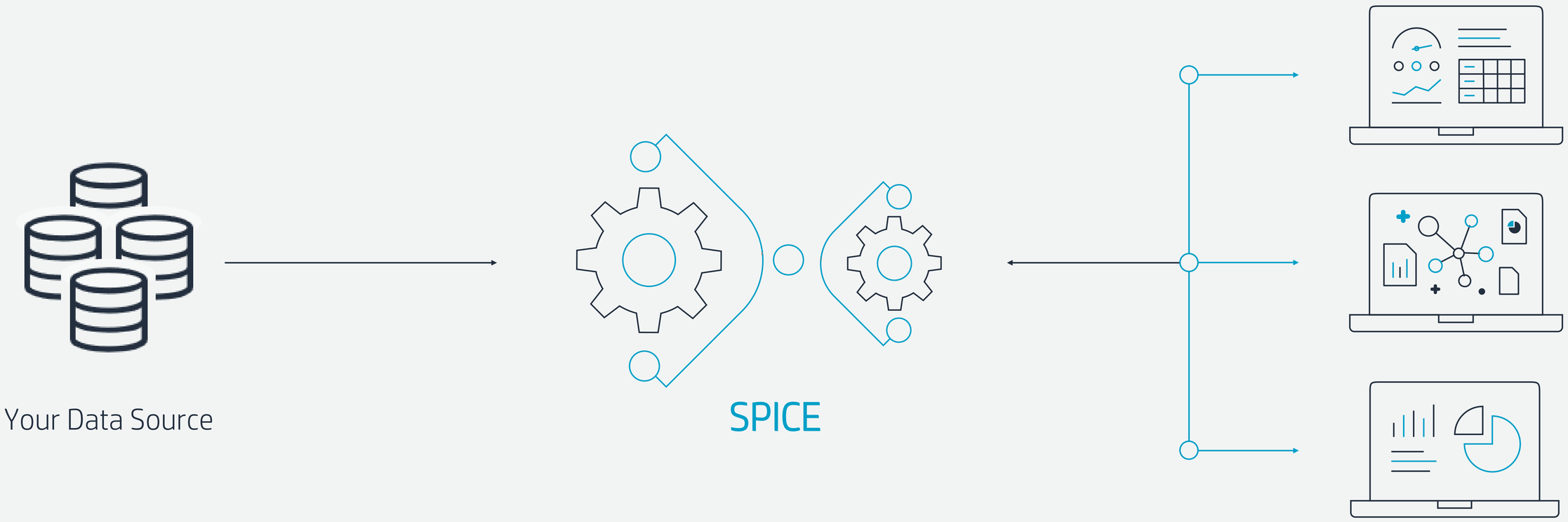
- Salesforce
- Square
- Adobe Analytics
- Jira
- ServiceNow
- Twitter
- Github

Securely connect to on-premises data

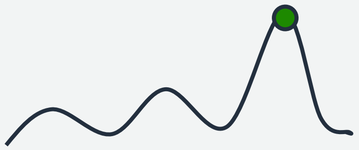


SPICE

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



Augment your data with Machine Learning

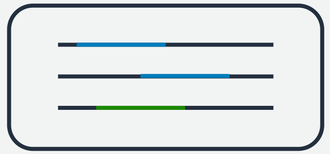


Anomaly Detection

Discover unexpected trends and outliers against millions of business metrics.

Forecasting

Machine learning forecasting with point and click simplicity.



Auto Narratives

Summarize your business metrics in plain language.

ML Predictions

Visualize and build predictive dashboards with SageMaker models.

Undo
Redo
Customer Orders Dashboard
Filter
# of Orders by Category
75
50
25
0
Jan 4, 2015
Dec 31, 2017
Date (WEEK)
Category
Aluminium
Copper & Diamonds
Energy & Minerals
Iron Ore
Top Customers by Category
Sears Holdings
General Dynamics
Tyson Foods
Allstate
Google
World Fuel Services
MetLife
Unique Customers by Industry
FINANCE
RETAIL
TECH
HEALTHCARE
MFG
TRANSPORTATION

Demo

Resources

- Hands-on workshops:
    - Embedding
    - Administering
    - Dashboards building
    - Integration with Sagemaker

- See it in action here
- Try it here

Grazie!

Francesco Diaz
@francedit