

Amazon QuickSight

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Enhance your apps with Amazon QuickSight embedded analytics



Agenda

Why embed analytics?

Why Amazon QuickSight

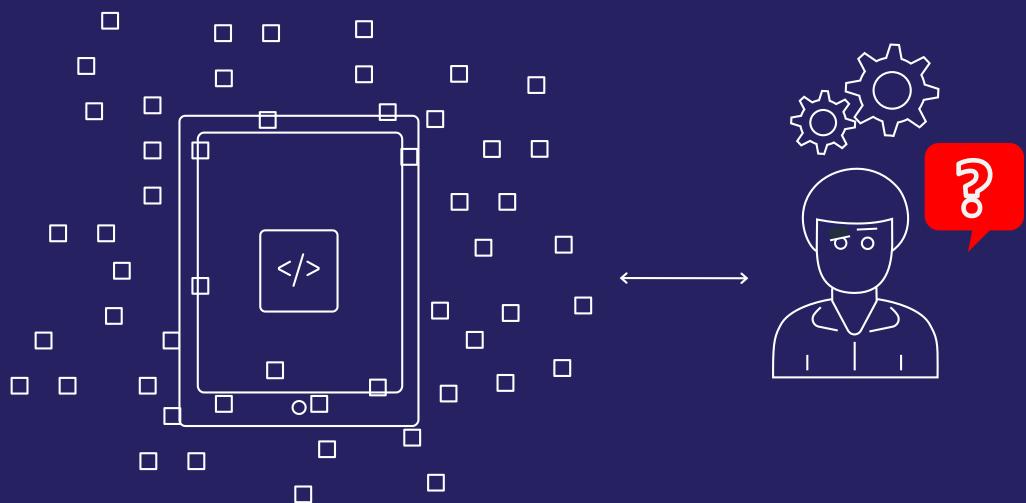
Embed analytics with Amazon QuickSight



Why embed analytics?

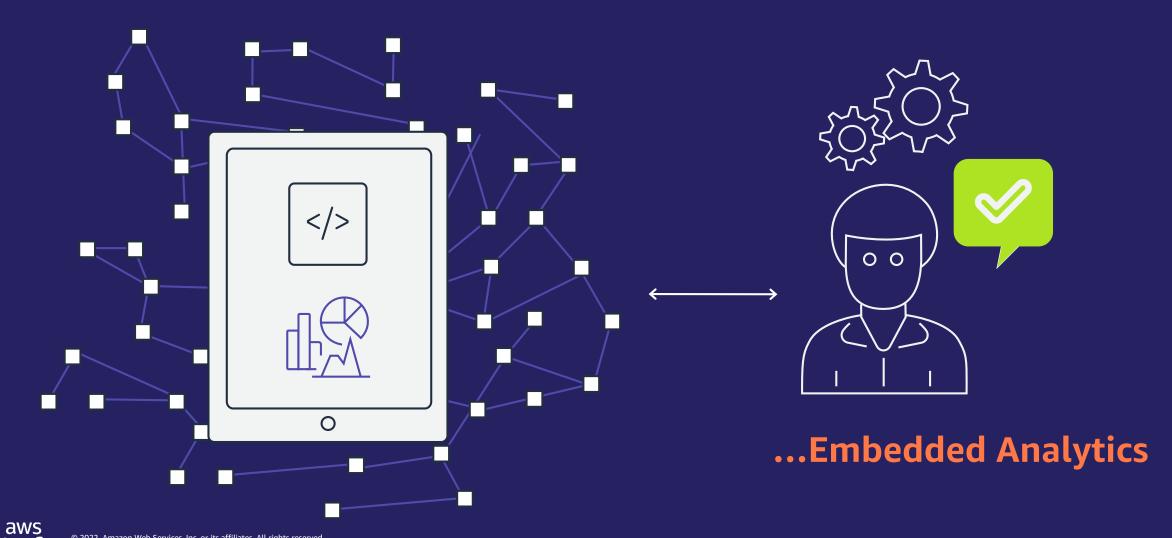


Applications generate a lot of data...





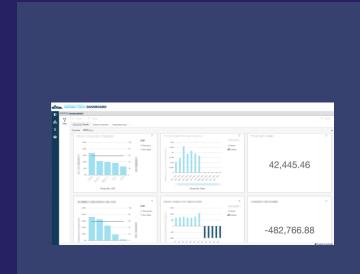
Turn data into insights with embedded analytics



Data-driven experiences for every user



SaaS apps



Enterprise web apps



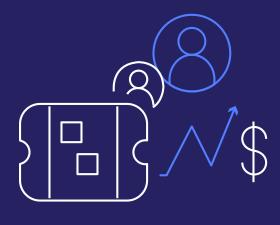
Public portals



Accelerate business growth







Product differentiation

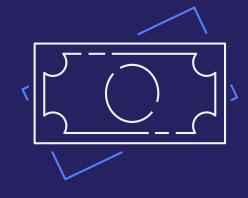
Data-driven user experiences

New monetization opportunities



Reduce technical complexity







Time to market

Reduce ongoing expenditure

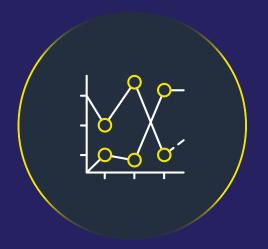
Deep analytical capabilities



Why Amazon QuickSight?



Amazon QuickSight



Built for scale

Easily scale from 10s to 100K+ users without servers;
Securely works with data lakes, operational databases, and data warehouses



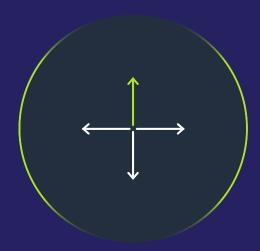
Developer focused

Quickly embed dashboards in web apps with rich API support via AWS SDK, native multi-tenancy and deep customization options



ML-powered insights for end users

Benefit from Amazon's expertise in ML with built-in NLQ, outlier detection, forecasting, and auto-narratives



Enterprise ready

High Availability, compliance, data security, granular accesscontrol, and easy connectivity to your data wherever it may be



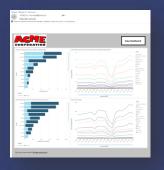
QuickSight for all your embedded analytics needs

Interactive dashboards



Rich, interactive dashboards with drill-down, filtering and data export capabilities for in-app analytics for 100s of 1,000s of users

Personalized email reports



Schedule and send emails to 1,000s of users enforcing data security, user-level defaults and customized branding

Self-service authoring



Customizable
QuickSight authoring
experience with multitenancy controls and
governed data access
for power users of apps

Natural Language Querying with Q



Embed natural language querying in your applications to provide easy access to deep insights; curate and manage known pattern



Embed analytics with QuickSight



Embed Different QuickSight assets

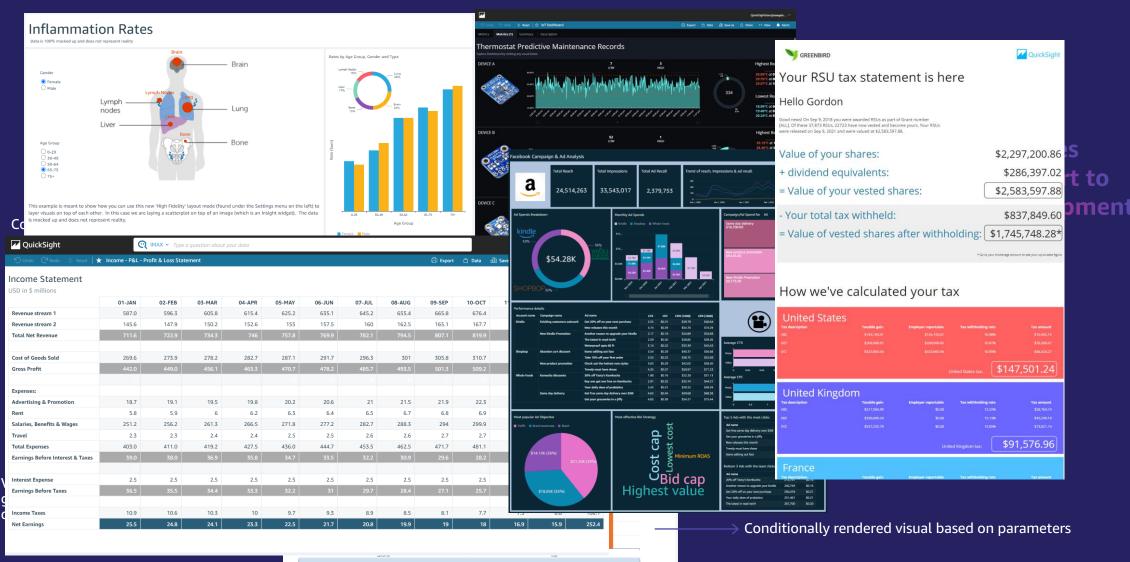
- 1. Embed dashboard
 - 1. with 1-click embed capability for your internal apps
 - 2. with API without user management and enabling multi-tenancy at runtime
- 2. Embed Q Natural Language Querying
- 3. Embed authoring experience monetization strategy



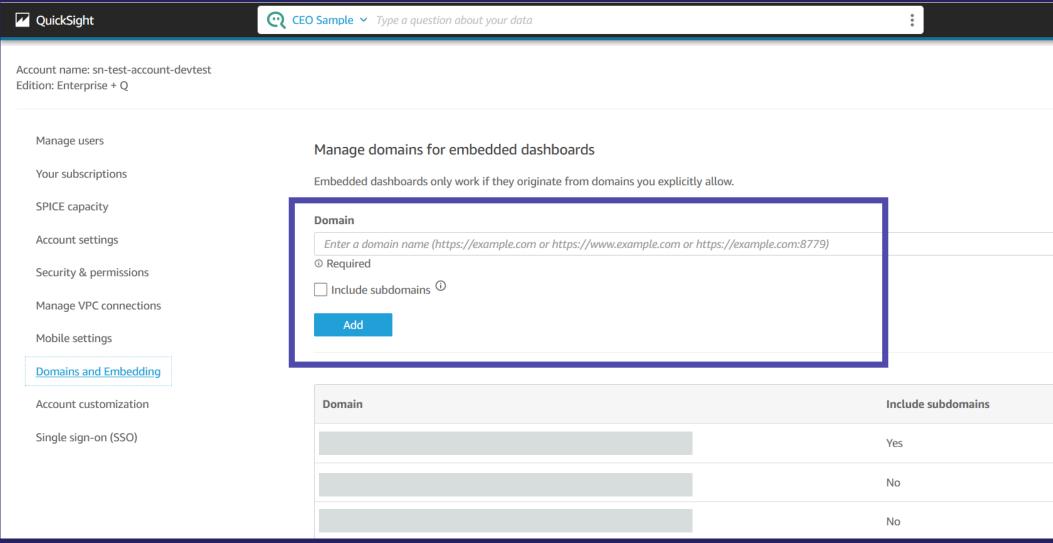
Embed Dashboards in 3 easy steps



1. Author rich, interactive dashboards

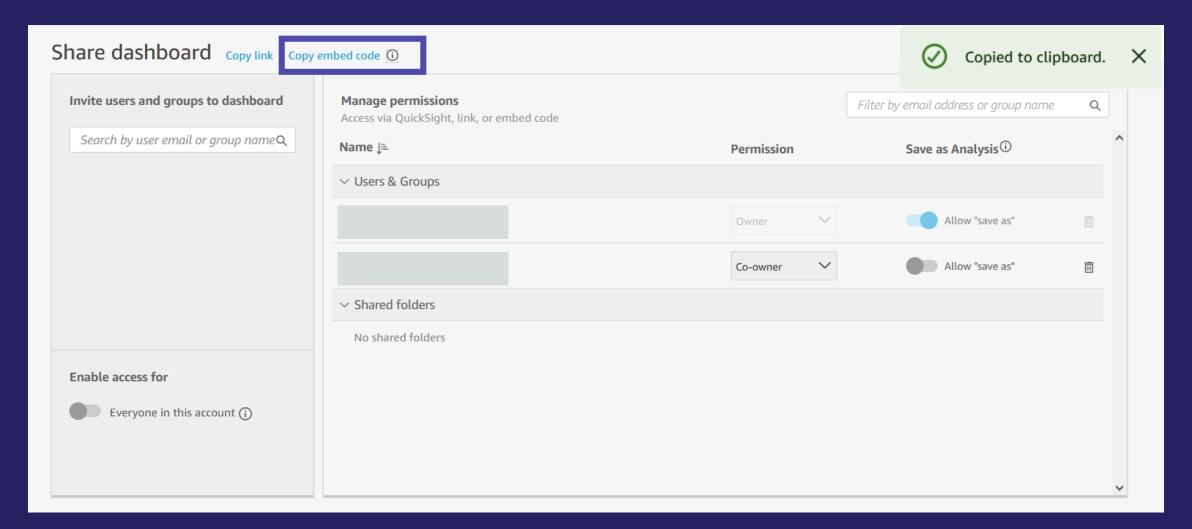


2. Allow domains for embedding

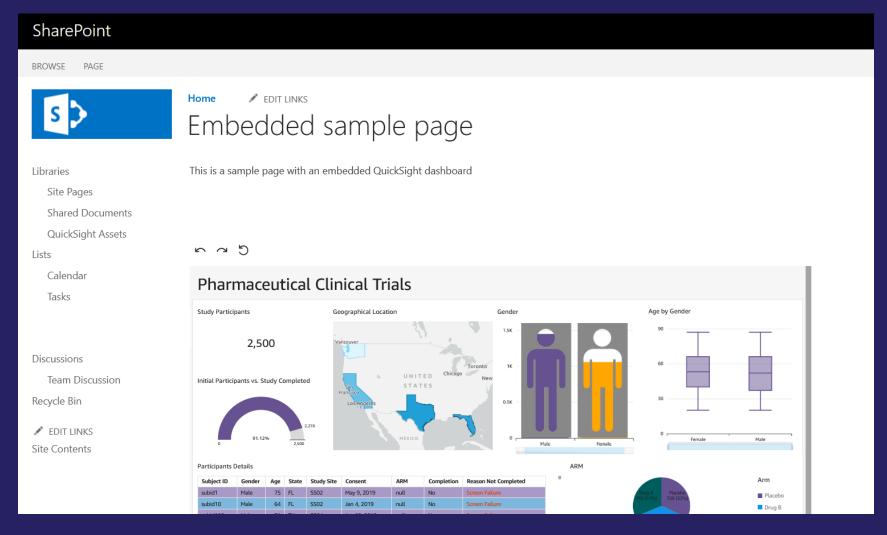




3.1 1-click embed



3.1 1-click embed



Share with all users

No servers needed

3.2 Embed with API without user management

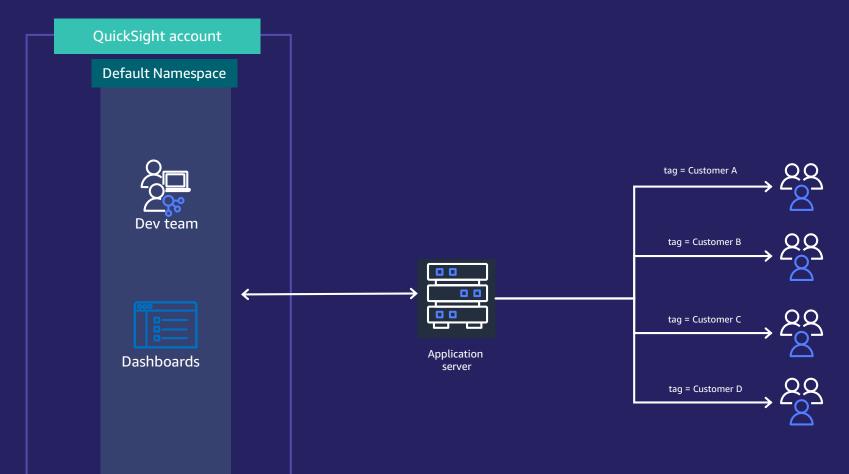
API

Generate Embed Url For Anonymous User

- No need to provision users who access the embedded dashboard in QuickSight
- You can set session tags on your dataset and pass values to the tags at run time based on which user is accessing the dashboard in your application
- Enables multi-tenancy at runtime



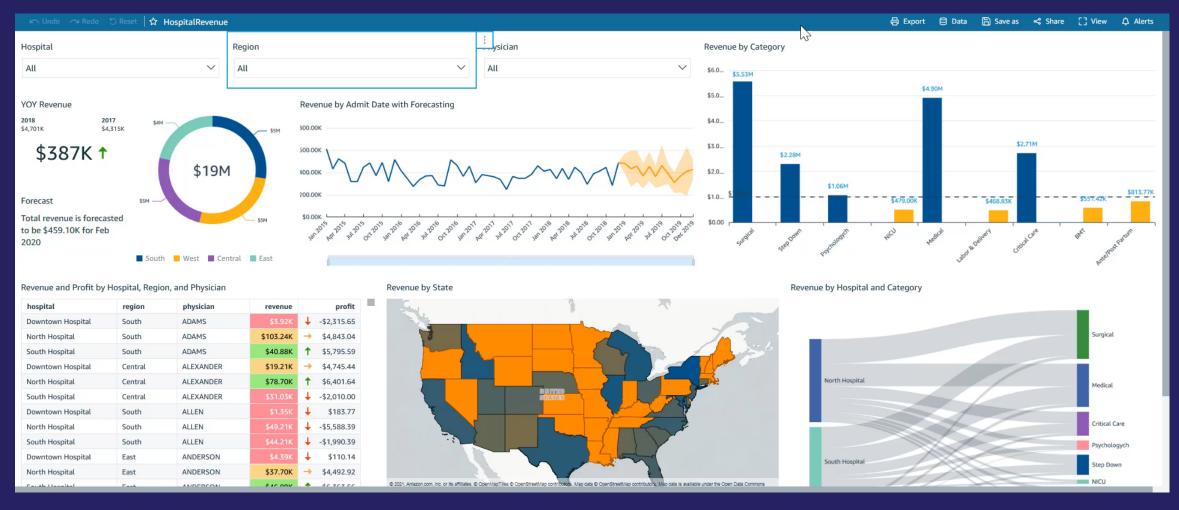
3.2 Embed with API without user management Multi-tenant dashboards for end users



- Data filtered via row-level security with tags specific to each tenant
- No need to create or manage end users in QuickSight

3.2 Embed with API without user management

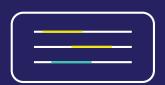
Demo



Embed ML Capabilities



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





Ask questions using natural language



Anomaly detection

Discover unexpected trends and outliers against millions of business metrics

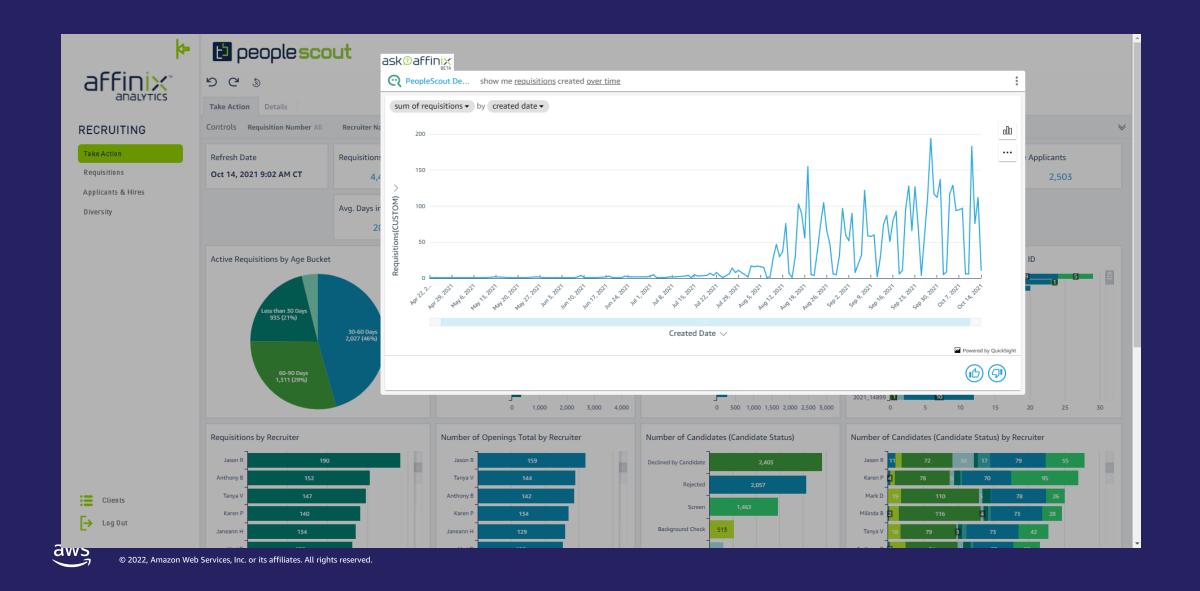


Forecasting

Machine learning forecasting with point-and-click simplicity



Ask questions in your app with QuickSight Q



Embed Q

API

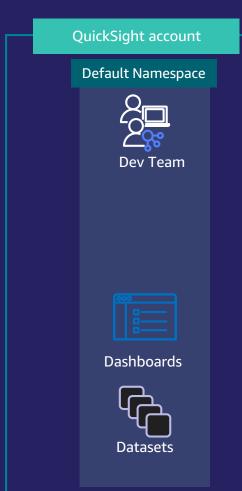
GenerateEmbedUrlForRegisteredUser

```
POST /accounts/AwsAccountId/embed-url/registered-user HTTP/1.1
Content-type: application/json
 "ExperienceConfiguration": {
   "QSearchBar": {
    "InitialTopicId": "string"
 "SessionLifetimeInMinutes": number,
 "UserArn": "string"
```

Embed Authoring Experience



Multi-tenant authoring for power-users







- Data filtered via row or column-level security for datasets and dashboards
- Power-users within each tenant can create and share dashboards with others
- Replicate and manage canned, curated dashboards using APIs

https://democentral.learnquicksight.online/



Embed Authoring Experience with API

API

GenerateEmbedUrlForRegisteredUser

```
POST /accounts/AwsAccountId/embed-url/registered-user HTTP/1.1
Content-type: application/json
 "ExperienceConfiguration": {
   "QuickSightConsole": {
    "InitialPath": "string"
 "SessionLifetimeInMinutes": number,
 "UserArn": "string"
```

References

- AWS documentation: https://amzn.to/3kiVn4R
- 2. API:
 - https://tiny.amazon.com/1017llghl/docsawsamazquiclateAPIRAPI_
 - https://tiny.amazon.com/1bxv912pn/docsawsamazquiclateAPIRAPI_
- 3. JS SDK for customizations: https://github.com/awslabs/amazon-quicksight-embedding-sdk
- 4. Namespaces: https://amzn.to/2VJSFv9
- 5. Row-level security (RLS): https://amzn.to/3i7Blb2
- 6. 1-click embedding: https://tiny.amazon.com/13ugcvwsp/awsamazblogbigdembe
- 7. Embedding with API: https://tiny.amazon.com/qqe5yg1c/awsamazblogbigdembe
- 8. Email customizations: https://tiny.amazon.com/l2vgl7ii/awsamazblogbigdsend
- Developer portal: https://developer.quicksight.aws/
- 10. Learn QuickSight: https://learnquicksight.workshop.aws/en/
- 11. Pricing: https://aws.amazon.com/quicksight/pricing/
- 12. Email: quicksight-embedding@amazon.com





Thank you!