



WELCOME

App-Driven Analytics

Livestream 1



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Who Am I?

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Agenda

Livestream	Objective	Topics
Pework	Setup Development Environment	Install Compass Create Atlas Account Deploy Free Cluster Configure Security Test
1	Build App Driven Analytics	Atlas Developer Data Platform Overview Rocket Use Case Overview Load, Inspect & Query Data Analytics with Aggregation Framework Analytics with Charts
2	Search & Visualizations	Search, Charts, Triggers
3	In-Depth Analytics	Data Lake, Data Federation, Atlas SQL



3 Week Agenda

Livestream	Objective	Time
Pework	Setup Development Environment	Before March 15th
1	Build App Driven Analytics Capabilities	March 15th, 10:00 AM ET
2	Search, Visualizations, & Triggers	March 22th, 10:00 AM ET
3	Business Visualizations	March 22th, 10:00 AM ET



You can find everything in github

<https://github.com/jayrunkel/rocketLivestream>

- Instructions
- Video links
- Slides
- Code
- Data
- Configuration



Today's Agenda



Livestream	Objective	Topics
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1	Build App Driven Analytics Capabilities	Atlas Developer Data Platform Overview Rocket Use Case Overview Load, Inspect & Query Data Analytics with Aggregation Framework Analytics with Charts



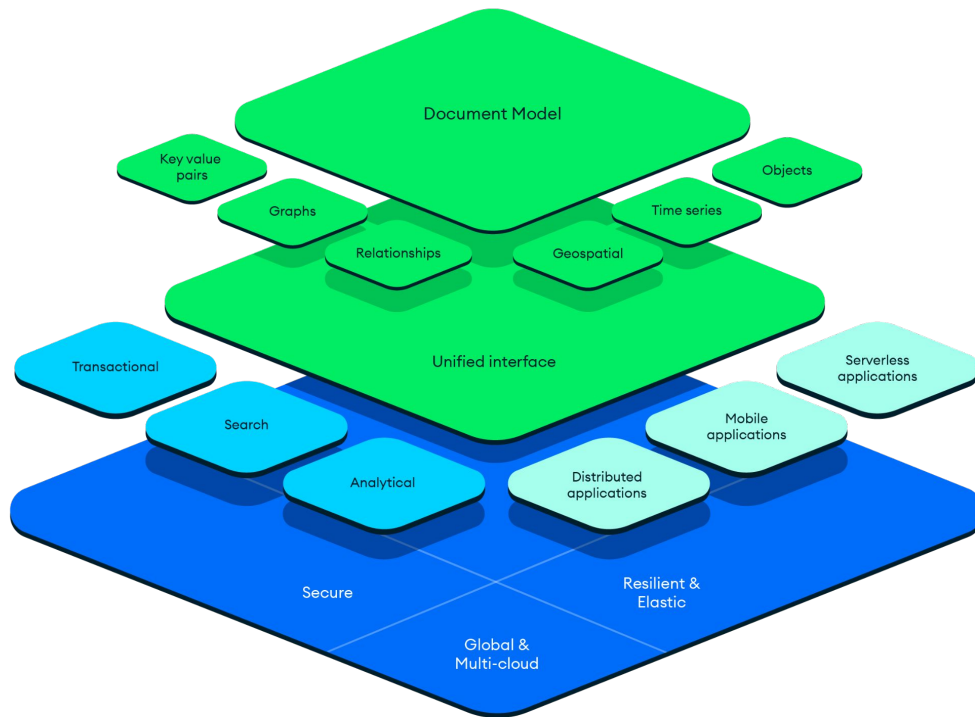
MongoDB Atlas Developer Data Platform

Foundation: MongoDB Document Database

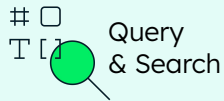
Fully managed, scalable, & resilient

Enhanced With Additional Capabilities

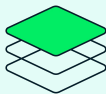
Tightly Integrated with Common Query Language



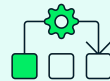
Any level of application intelligence



Query
& Search



Aggregations



Rules
Engine



Machine
Learning

MongoDB Atlas

Application-Driven Analytics

Transactional



Document
Database



High Speed CRUD
& Transactions



HA &
Scale-Out



Row Store &
Secondary Indexes



Change Streams
& Triggers



Atlas Search

In-App Analytics



Aggregation
Framework



Analytics Nodes



Row & Column
Store Indexes



Time Series



Change Streams
& Triggers



Atlas Charts
(Embedded Charts)



Aggregation
Framework



Analytics Nodes



Atlas Data Lake



Atlas SQL Interface



Atlas Data Federation



Atlas Charts
(Dashboards)

Integrations



AI/ML
Platform

Spark
Connector



Streaming



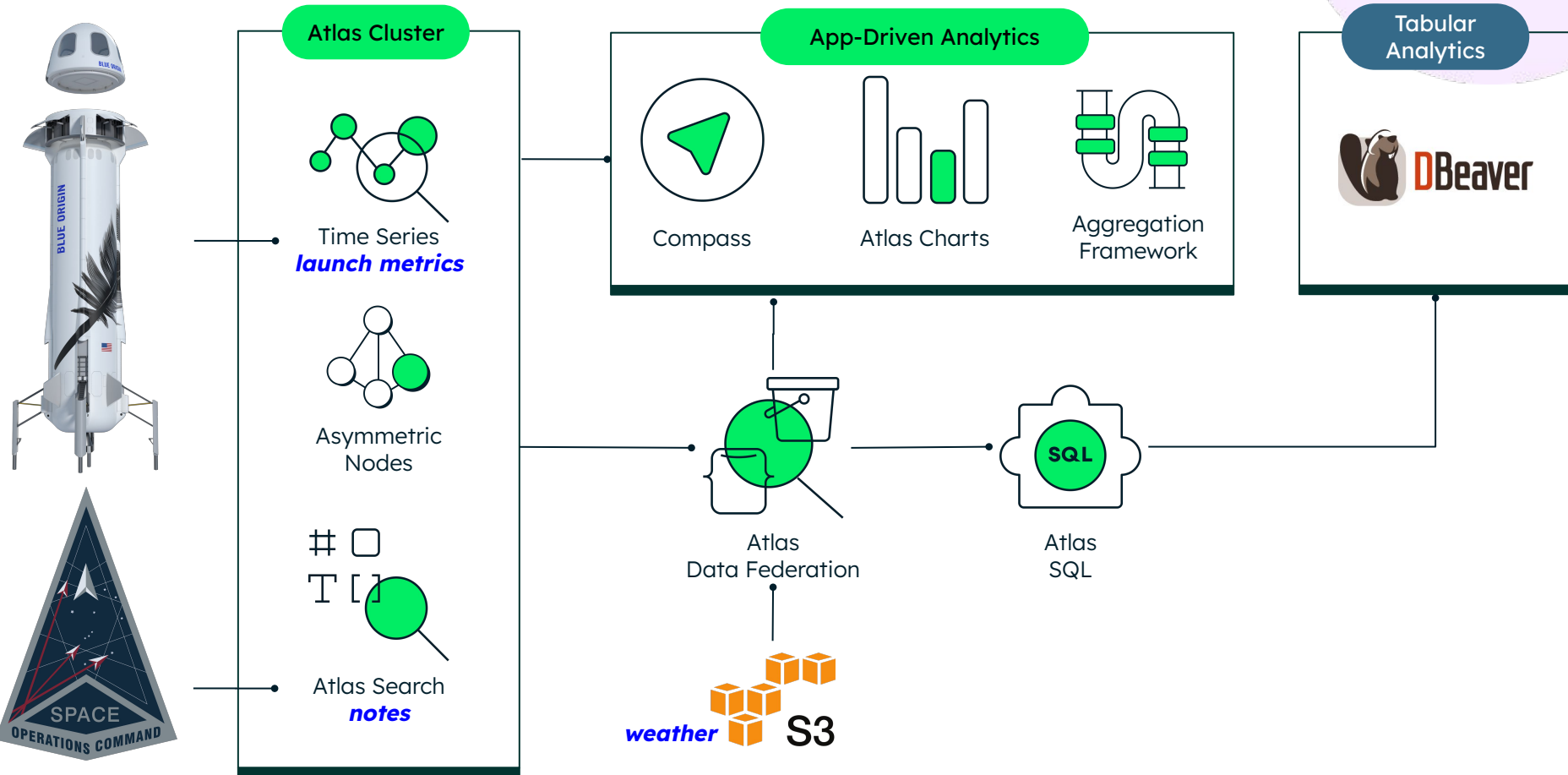
BI /
Reporting

Rocket Analytics Use Case

Our organization manages rocket launches

- Typical rocket launch lasts 8 hours
- Generates 1M metrics per second
- Need to understand what is happening in real-time during launch
- In-depth analytics post launch

Rocket Analytics Architecture in Atlas



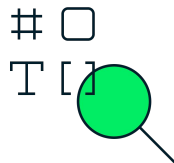
Rocket Analytics Architecture in Atlas

Atlas Cluster

App-Driven Analytics

Tabular
Analytics

We are going to build this!!!!



Atlas Search
notes

Atlas
Data Federation

Atlas
SQL





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Thank you for
your time.