Learning Outcomes

You will leave this course with basic knowledge about **Grail** and skills needed to use **Dynatrace Query Language** to:

- Explore
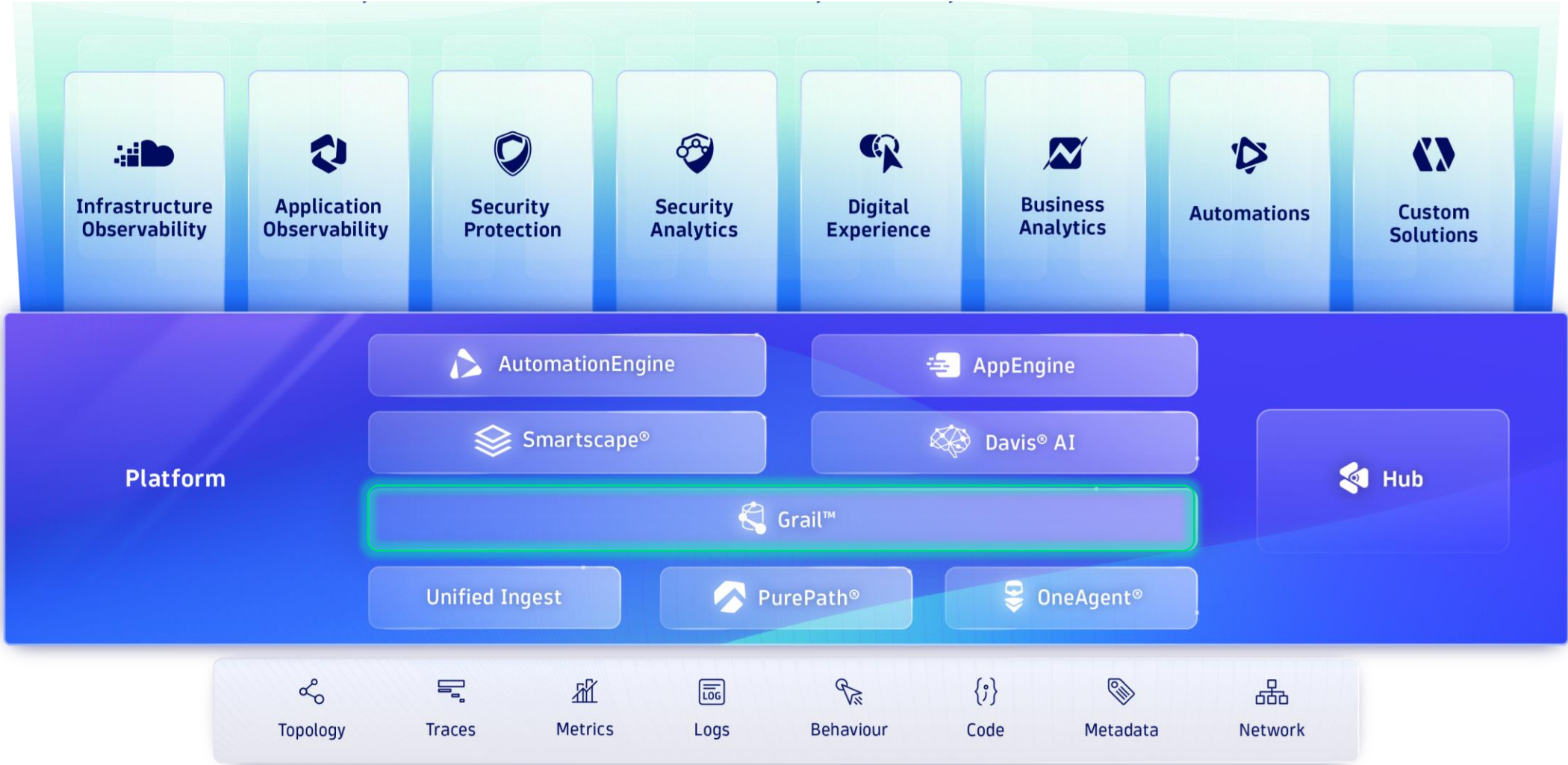- Analyze
- Visualize data

Agenda

- Grail and DQL basics review
- Hands-on
  - DQL Challenge
- Best Practices

Grail

Infrastructure Observability · Application Observability · Security Protection · Security Analytics · Digital Experience · Business Analytics · Automations · Custom Solutions

Platform

AutomationEngine · AppEngine · Smartscape® · Davis® AI · Grail™ · Hub · Unified Ingest · PurePath® · OneAgent®

Topology · Traces · Metrics · Logs · Behaviour · Code · Metadata · Network

Dynatrace Query Language (DQL)

Powerful tool to:

- Explore data

- Discover patterns

- Identify anomalies

- Create statistical modeling

Grail™

Anatomy of a DQL query

command   parameters

```
fetch events, from: -2h
    // query to fetch booking payment events and get the sum of amount          comment
    | filter event.type == "travel.funnel.booking-payment"
    | summarize sum = sum(amount), by:{travelAgency, travelers}
    | fieldsAdd has_more_than_2 = travelers > 2
```
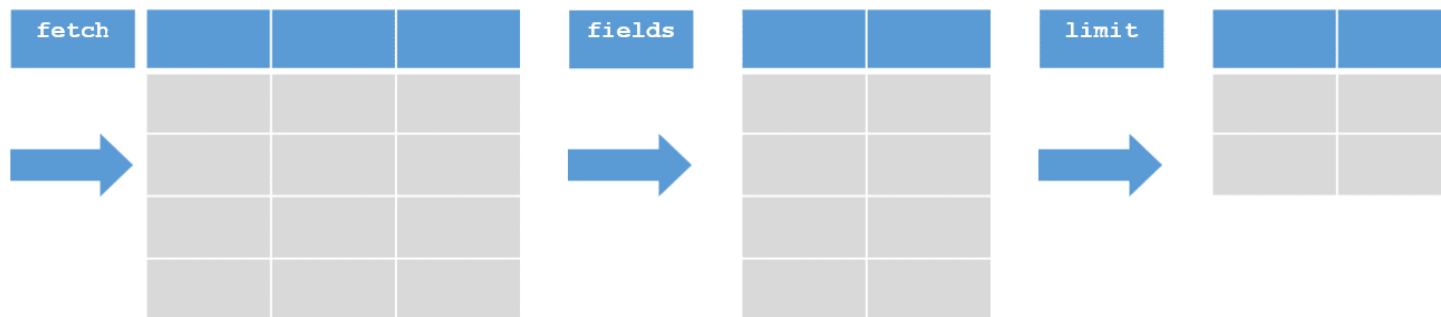
query

pipe   expression   function

fetch				fields			limit			

Dynatrace Query Language

Commands

Data Source — data
describe
fetch

Metric — timeseries

Filtering

Selection/Modification

Parsing

Ordering

Structuring

Correlation/Join

Functions

Aggregation
Array
Bitwise
Boolean
Conditional
Conversion and casting
Cryptographic
General
Join
Mathematical
Network
String
Time

Operators

Numerical (+,-,>,<)

Logical (and/or/not)

String (==, !=)

Iterative

Comparison

Data Types

Primitive

Complex

Key Tables

Logs

Logs are detailed information sets related to an application, system, or user.

Logs are used to monitor behavior, understand activity, diagnose problems, and optimize performance.

Events

Events are actions or occurrences that takes place within a system or a service.

Examples:

Problem Opening

Vulnerability Detected

Custom Ingested Event

Bizevents

Events that generate business-grade data become Bizevents.

Business-grade data is:

Complete & accessible

Real-time

Unified & Unconstrained

Granular & Topology aware

Spans

Spans are the data structure associated with a single unit of work and are the building blocks of traces.
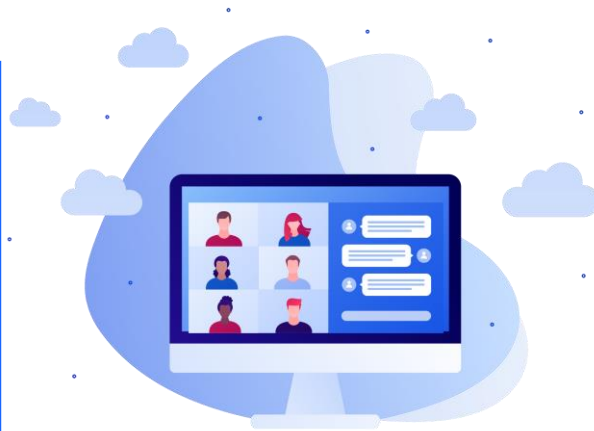
Hands-On

More on Dynatrace

OnDemand

Self-paced microlearning
Learn at your own pace.

vILTs

Virtual instructor-led learning experience that provides deeper dives.

Documentation

Reference materials to further aide you.

Coaching Session

Learn from a consultant about Dynatrace in your work environment.

Your thoughts matter!

CLOUD DONE RIGHT