Dynatrace Powered Innovation

Cloud done right.

PRESENTER

Jon Griffiths

Field CTO, EMEA

What’s driven our innovation

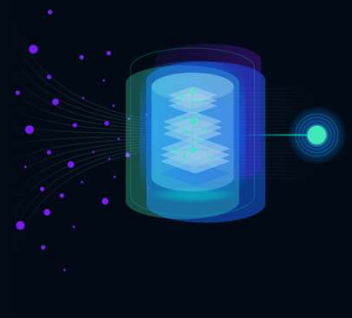
Data collection explodes

Making sense from data

Observability and security converges with need for automation

BizDevSecOps & Everything-as-Code

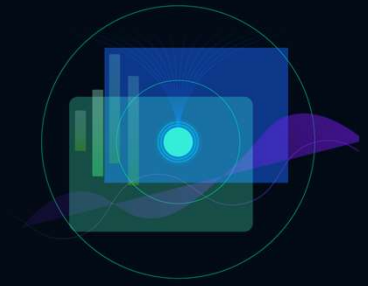
Key innovations that will drive us forward



Grail

AutomationEngine

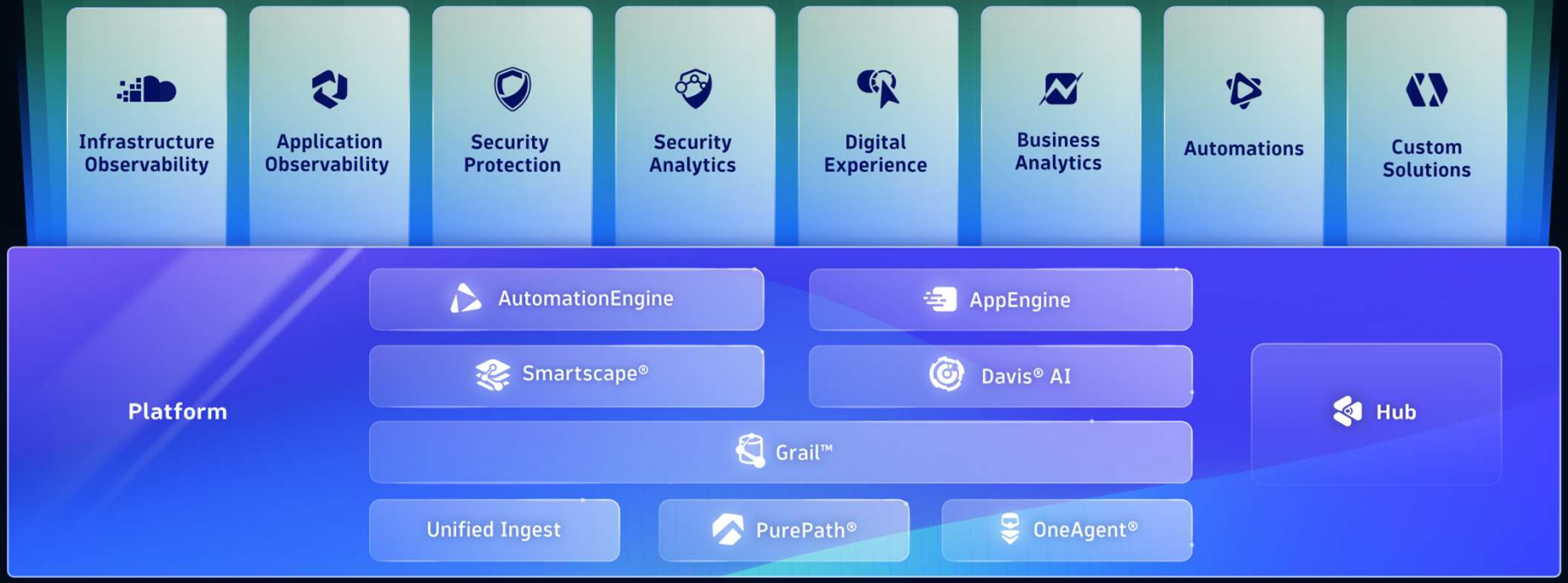
AppEngine



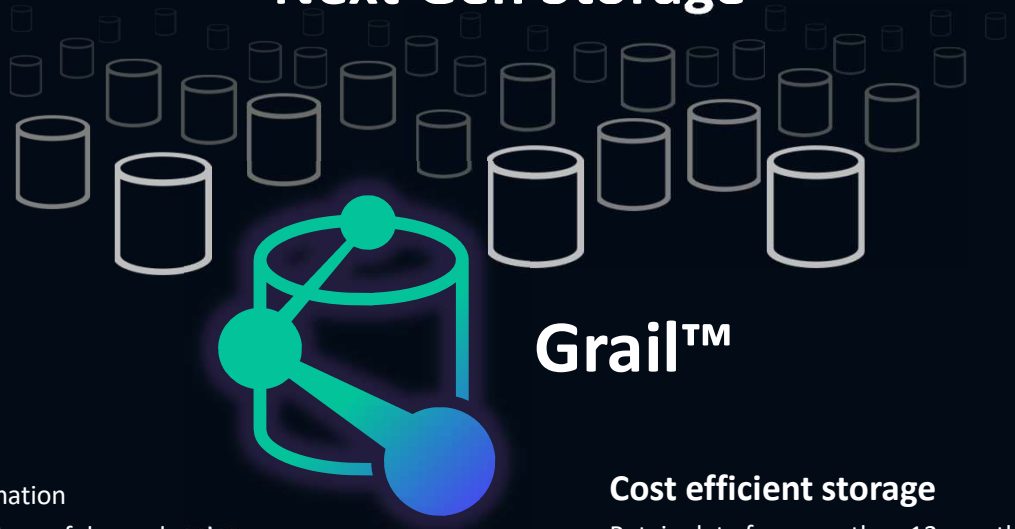
New User Experience

dynatrace

Analytics and Automation for Unified Observability and Security **CLOUD DONE RIGHT.**



Next Gen Storage



Grail™

Purpose-built data lakehouse

Focus on observability, security and automation

Optimized for Dynatrace AI to process billions of dependencies

Unified storage for observability data

Single data store for metrics, traces, logs and more

Data stored in context within real-time dependency model

>100x more scalable

100 TB/day data ingest per tenant (Q2 CY23)

Aiming for 1000 PB/day depending on future market needs

Cost efficient storage

Retain data for more than 12 months

No need to manage cold, warm or hot storage tiers

Instant answers

No index, no schema definition, no rehydration

Data analytics at any time with Dynatrace Query Language

Query performance up to 100x faster

Massive parallel processing on 1000s of nodes

~1TB in ~1s @ 1000 cores

DQL:ONE Language for all data in dynatrace

```
fetch dt.entity.host, from:-3d
| filter contains(entityName, "dtp-dev")
| lookup [fetch logs | filter matchesPhrase(content,"deployment") | parse content, "ld 'version: ' ld:version ld"
        | sort timestamp desc | fields latest = version, timestamp, dt.entity.host
      ], sourceField:entityId, lookupField:dt.entity.host
| lookup [fetch events | filter event.kind == "DAVIS_EVENT" and event.name=="CPU saturation"
        | sort timestamp desc | limit 1 | fields timestamp, dt.entity.host
      ], sourceField:entityId, lookupField:dt.entity.host
| lookup [timeseries avg(dt.host.cpu.usage), by:{dt.entity.host}, filter:contains(dt.entity.host,"HOST")
      ], sourceField:entityId, lookupField:dt.entity.host
| fields entityName, version = lookup.latest, deployment = lookup.timestamp,
      recentHighCPU = lookup.timestamp >= now()-3h, cpu_last10m = lookup.avg
```

entityName	version	deployment	recentHighCPU	cpu_last10m
CI-dtp-dev3 Cas-3	1.257	1/3/2023, 1:22:39 PM	true	87.3

OBSERVE AUTOMATE PREDICT

AutomationEngine™

Intelligent Automation
with answers from data.

Workflows

Graphical workflows

Drag and drop tasks and draw dependencies in no/low code graphical editor

Actions library

Integrate any system using predefined Actions or write your own

Schedules

Time-based execution according to flexible rules

Event triggers

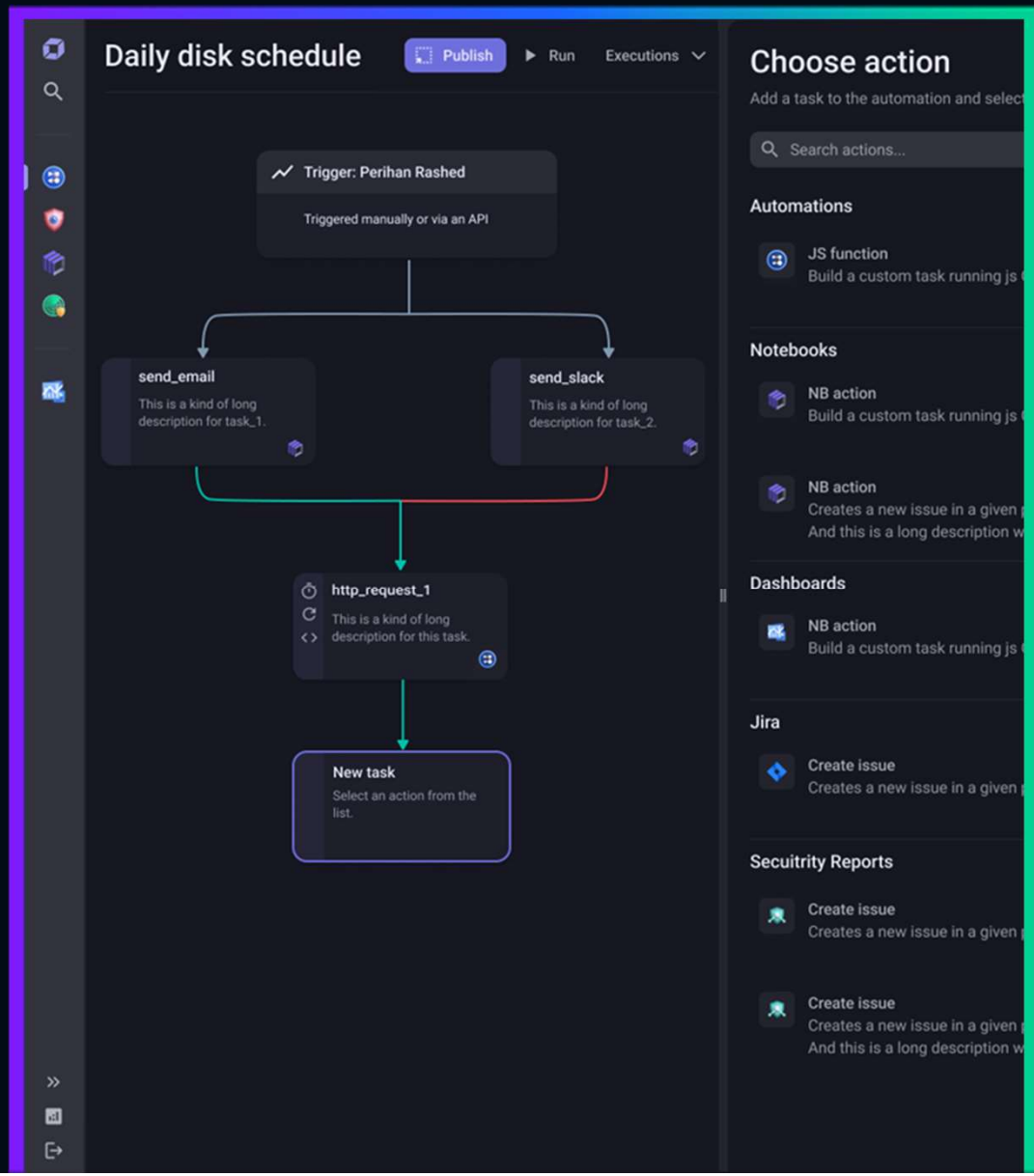
Automatically react to any Dynatrace Events or Problems

Edge Connect

Connect Dynatrace SaaS securely to on premise systems

AI-Trigger

Build and run based on Davis Analyzers



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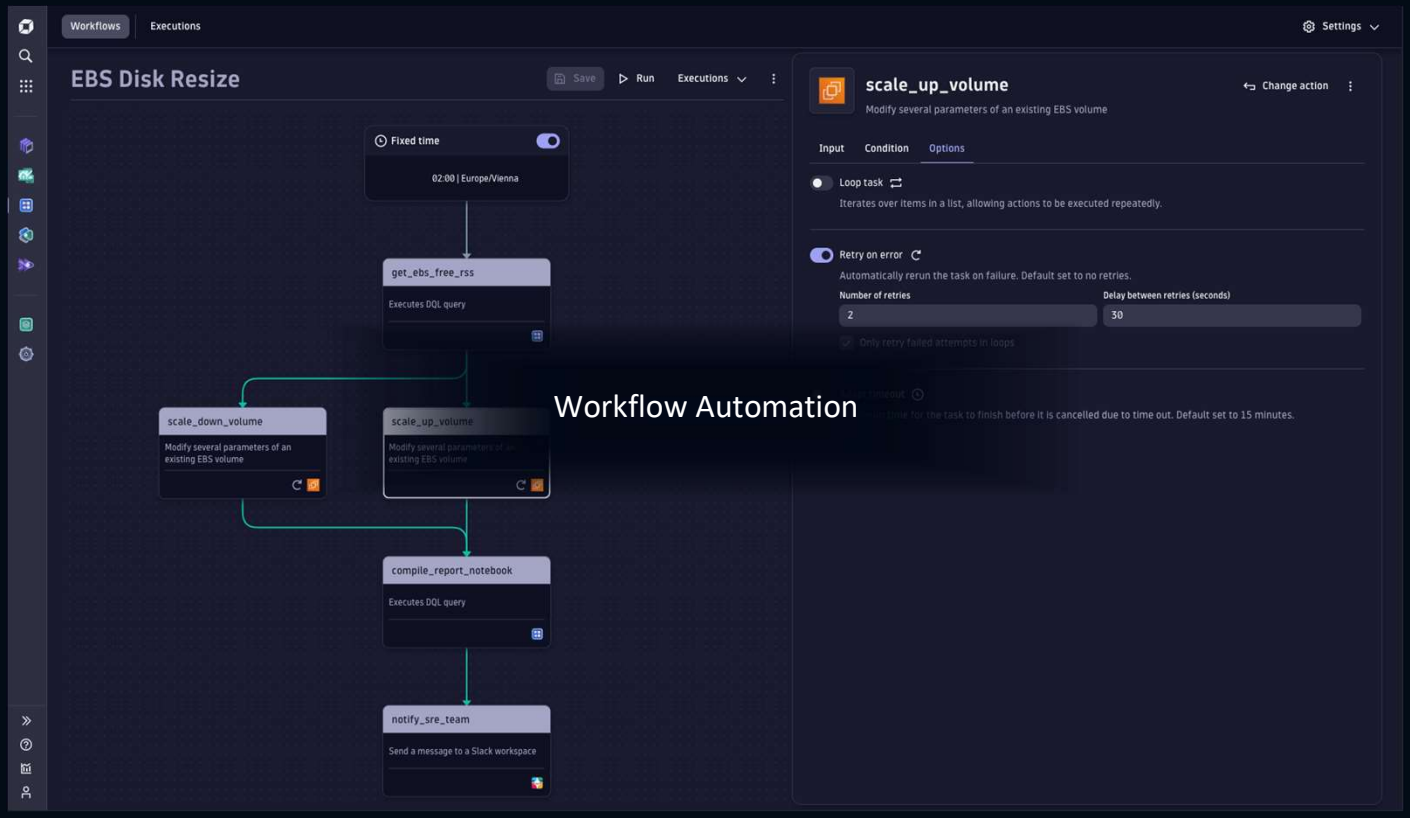
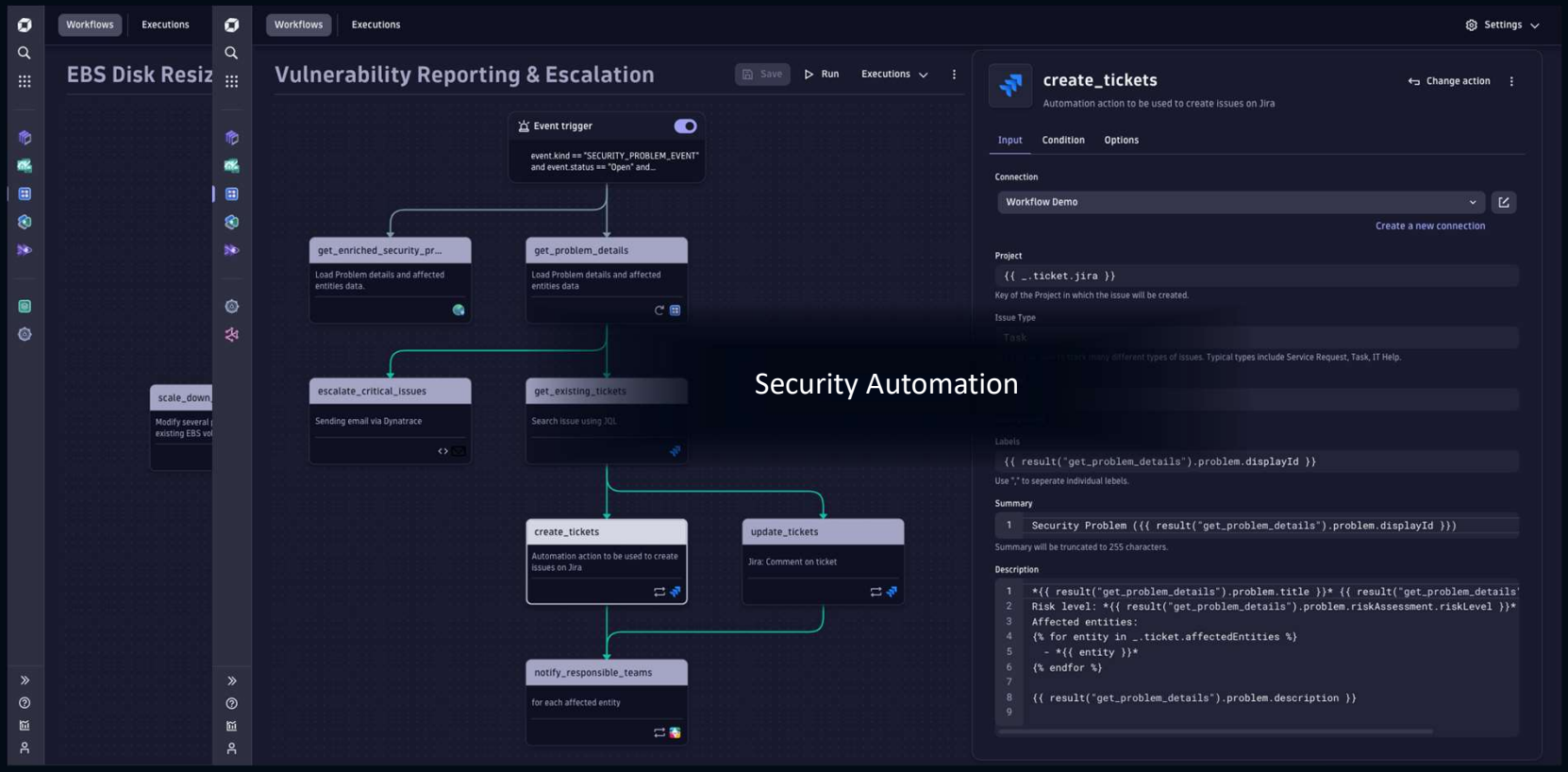
Use Cases



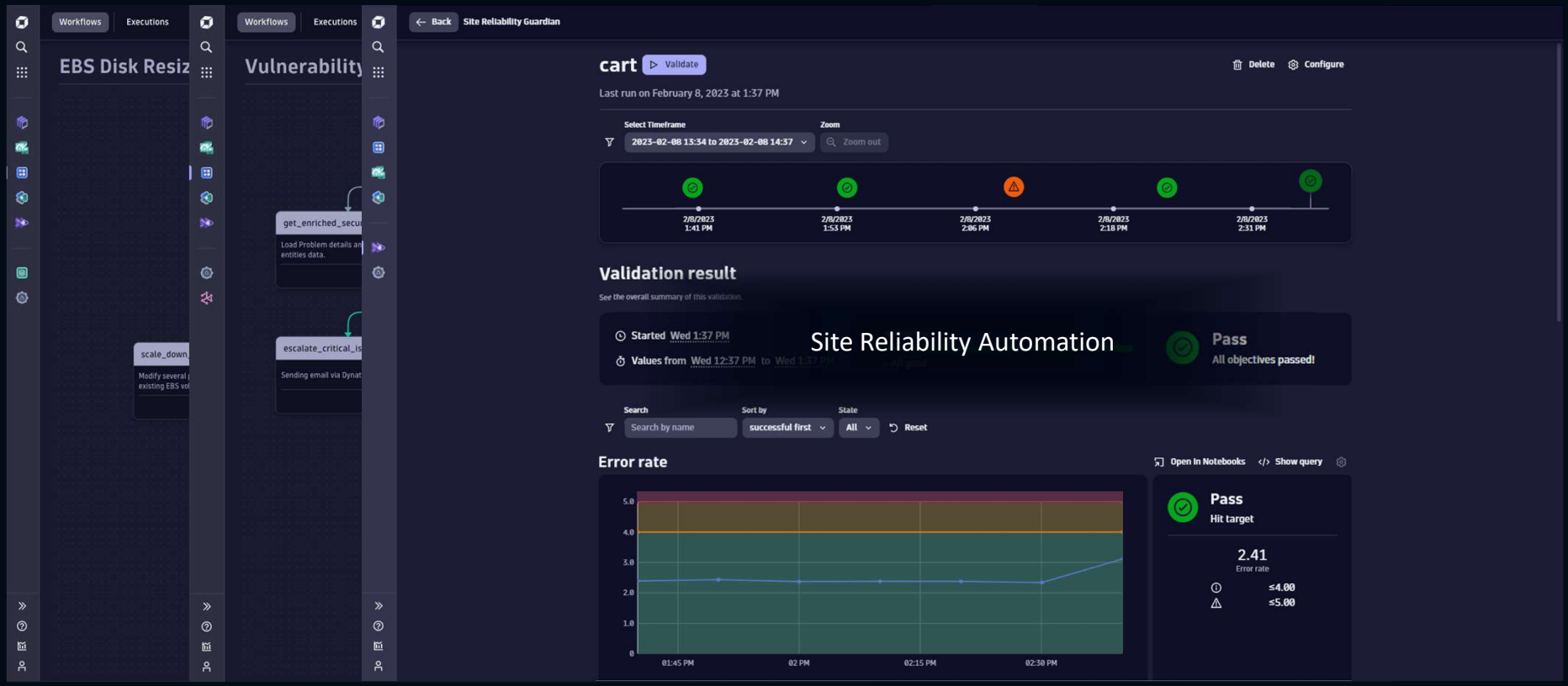
Workflow Automation

Use Cases



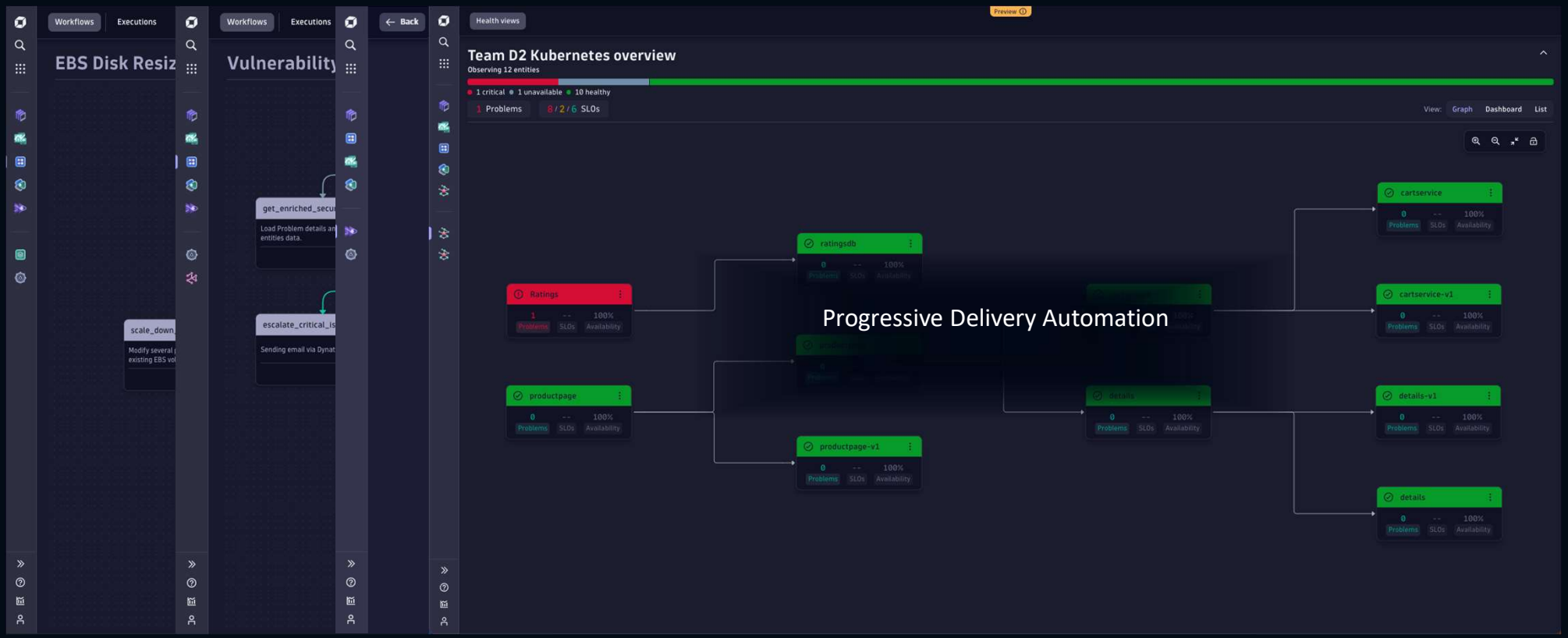
Security Automation

Use Cases

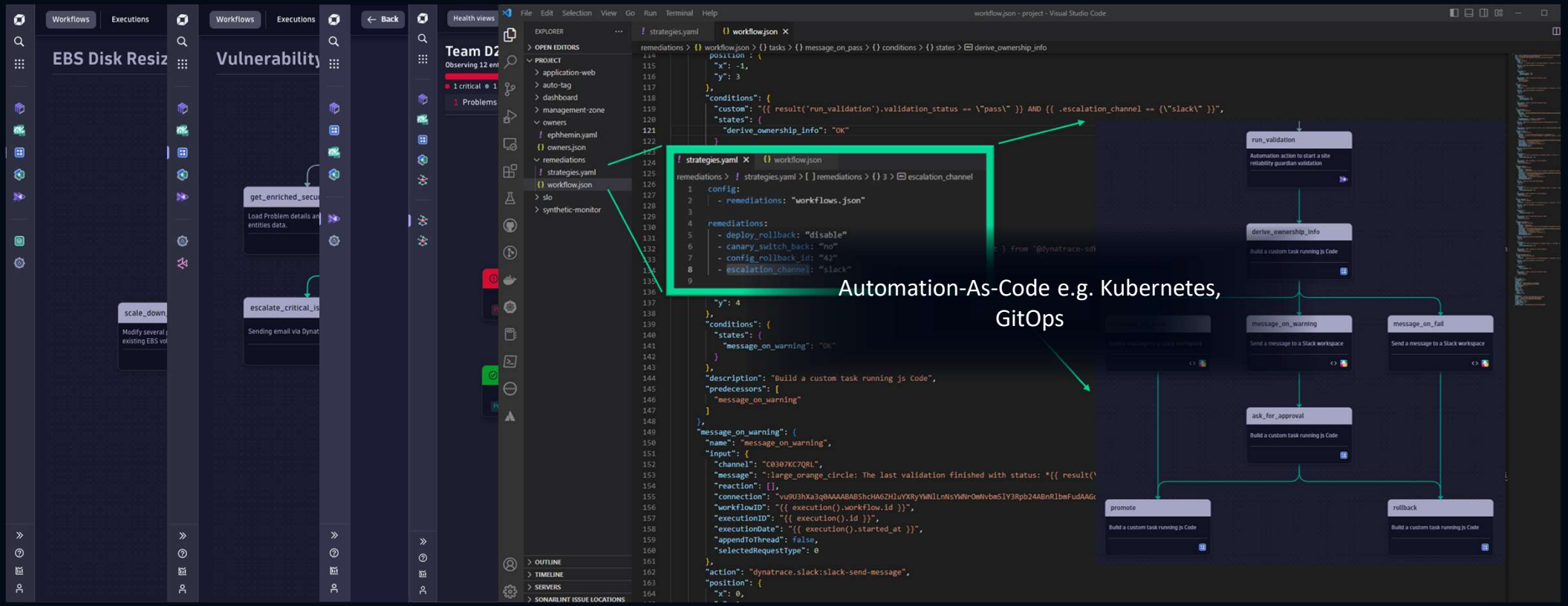


Site Reliability Automation

Use Cases


Workflows
Executions
EBS Disk Resiz
Workflows
Executions
Vulnerability
Back
get_enriched_secu
Load Problem details an
entities data.
escalate_critical_is
Sending email via Dynat
scale_down_
Modify several
existing EBS vo
Health views
Preview
Team D2 Kubernetes overview
Observing 12 entities
1 critical
1 unavailable
10 healthy
1 Problems
8 / 2 / 6 SLOs
View:
Graph
Dashboard
List
Progressive Delivery Automation
Ratings
ratingsdb
productpage
productpage-v1
details
cartservice
cartservice-v1
details-v1
details
Problems
SLOs
Availability
100%

Use Cases


Workflows
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get_enriched_secu
Load Problem details an
entities data.
escalate_critical_is
Sending email via Dynat
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Modify several
existing EBS vo
File Edit Selection View Go Run Terminal Help
workflow.json - project - Visual Studio Code
EXPLORER
OPEN EDITORS
PROJECT
application-web
auto-tag
dashboard
management-zone
owners
ephhemin.yaml
owners.json
remediations
strategies.yaml
workflow.json
slo
synthetic-monitor
OUTLINE
TIMELINE
SERVERS
SONARLINT ISSUE LOCATIONS
strategies.yaml
workflow.json
remediations > workflow.json > tasks > message_on_pass > conditions > states > derive_ownership_info
"position": {
"x": -1,
"y": 3
},
"conditions": {
"custom": "{{ result('run_validation').validation_status == \"pass\" }} AND {{ .escalation_channel == {\"slack\" }}",
"states": {
"derive_ownership_info": "OK"
}
strategies.yaml
workflow.json
remediations > strategies.yaml > [ ] remediations > {} 3 > escalation_channel
config:
- remediations: "workflows.json"
remediations:
- deploy_rollback: "disable"
- canary_switch_back: "no"
- config_rollback_id: "42"
- escalation_channel: "slack"
"y": 4
},
"conditions": {
"states": {
"message_on_warning": "OK"
}
},
"description": "Build a custom task running js Code",
"predecessors": [
"message_on_warning"
]
},
"message_on_warning": {
"name": "message_on_warning",
"input": {
"channel": "C0307KC7QRL",
"message": ":large_orange_circle: The last validation finished with status: *{{ result(
"reaction": [],
"connection": "vu9U3hXa3q0AAAABAB5hCHA6ZHluYXRyYWNlLnNsYWNrOmNvbm5lY3Rpb24ABnRlbmFudAAG
"workflowID": "{{ execution().workflow.id }}",
"executionID": "{{ execution().id }}",
"executionDate": "{{ execution().started_at }}",
"appendToThread": false,
"selectedRequestType": 0
},
"action": "dynatrace.slack:slack-send-message",
"position": {
"x": 0,
"y": 3
Automation-As-Code e.g. Kubernetes, GitOps
run_validation
Automation action to start a site reliability guardian validation
derive_ownership_info
Build a custom task running js Code
message_on_warning
Send a message to a Slack workspace
message_on_fail
Send a message to a Slack workspace
ask_for_approval
Build a custom task running js Code
promote
Build a custom task running js Code
rollback
Build a custom task running js Code

AppEngine™

brings custom logic to your data to extend use-cases and value

AppEngine™

GDPR, governance, auditing, data quality, low-effort yet powerful analytics

Logic to data

high performance, low cost

eliminated data-flow and privacy challenges

encapsulated data capture, analytics and automation

SSO, IAM, hiQgh-availability, security, secrets, low-code

Secure app runtime

JavaScript/TypeScript functions

automations

code shielding technology

BizDevSecOps automation, shift-left

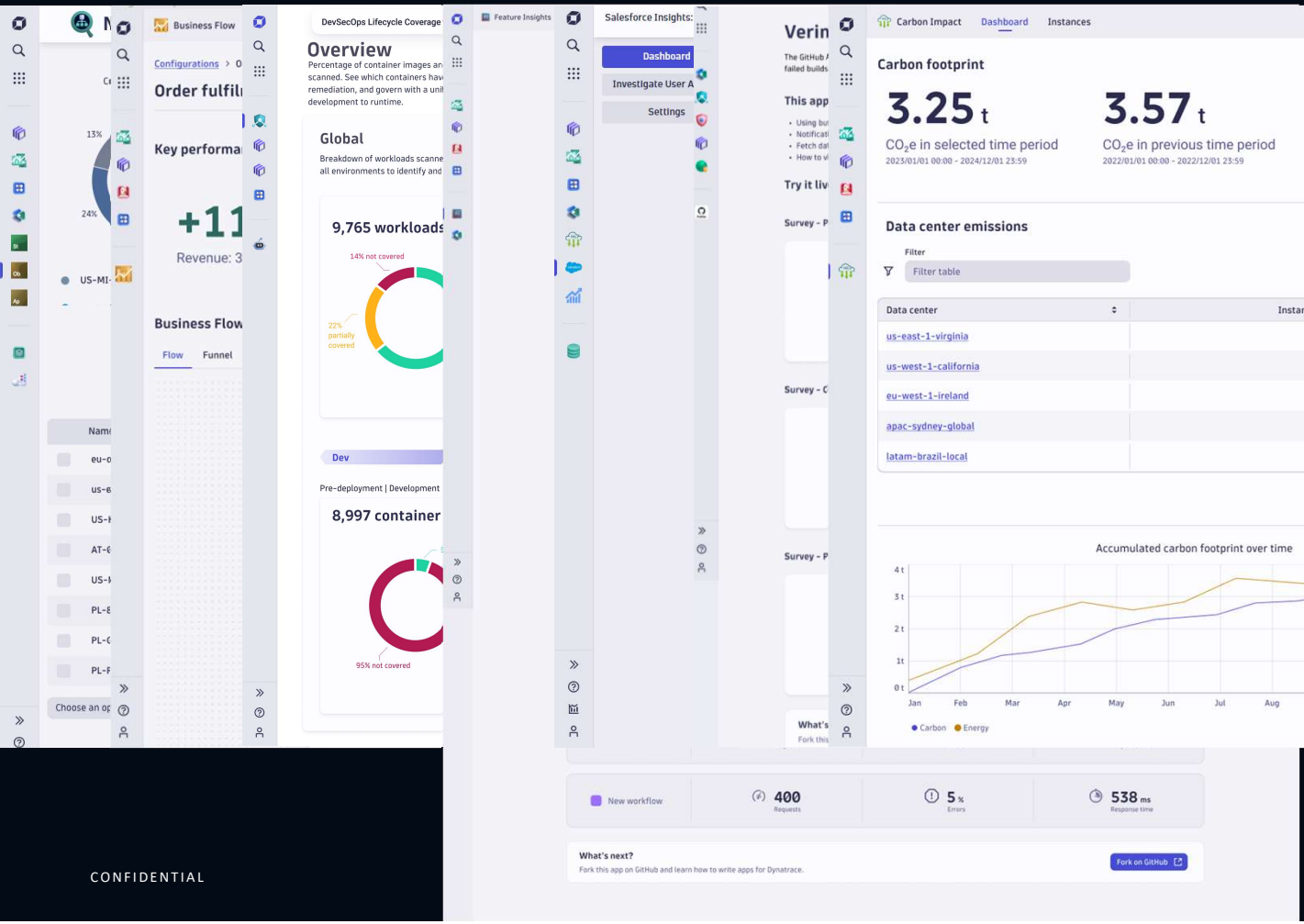
Integrates your environment

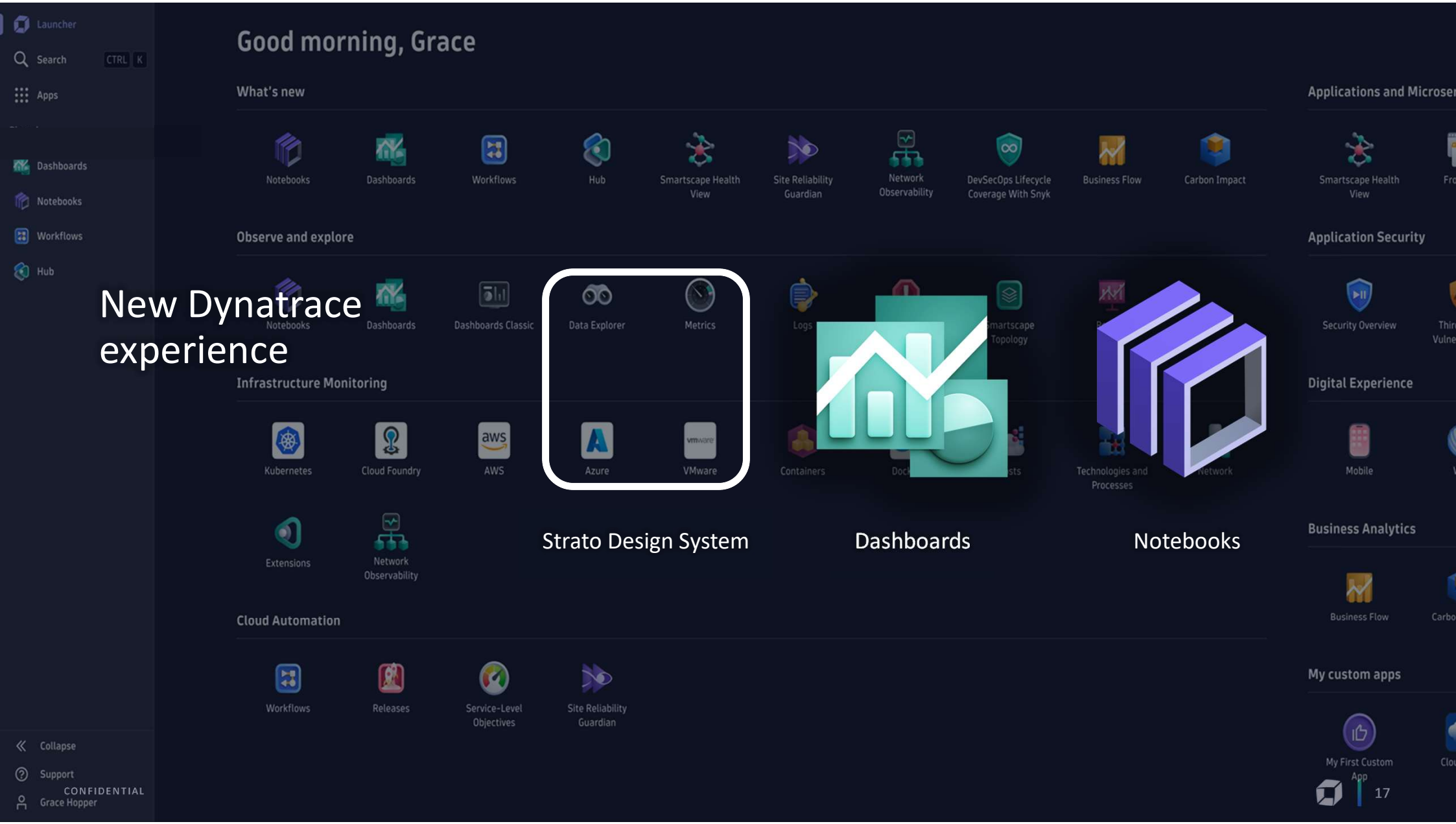
fetch or import external data, execute actions

secure remote invocations with EdgeConnect

integrations hosted within Dynatrace

Apps for everything and anything



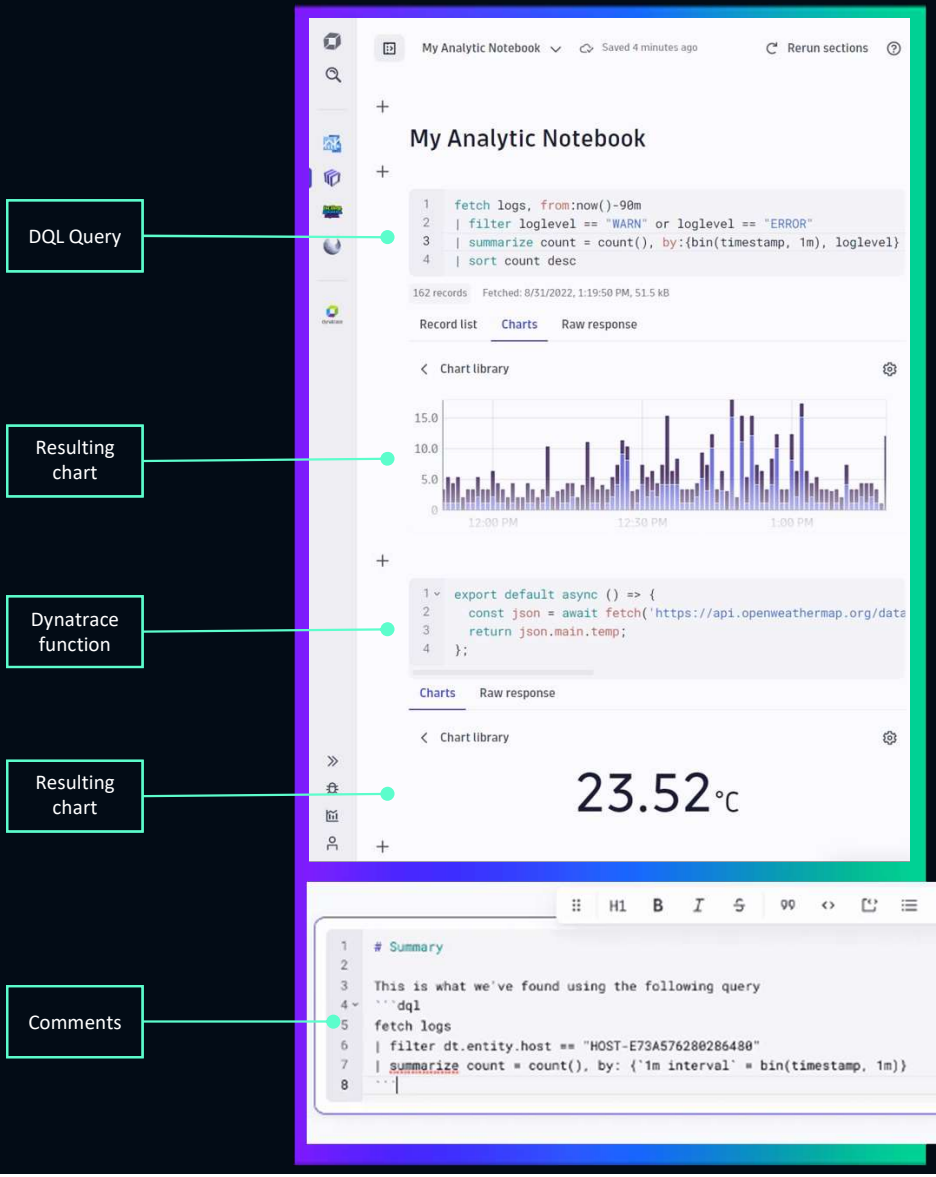


New Dynatrace experience

Notebooks

Petabyte-scale data exploration & analytics for real-time insights.

- Notebooks are interactive apps
  1. Write a DQL (Dynatrace Query Language) query or code snippet
  2. Get the resulting table or chart immediately.
- Ask follow-on questions at the speed of your thoughts, get trend forecasts and assistance by Davis AI.
  - Query, analyze, and visualize all data in Dynatrace and even integrate external data.
- Collaborate with teams using interactive, data-driven notebooks with comments.



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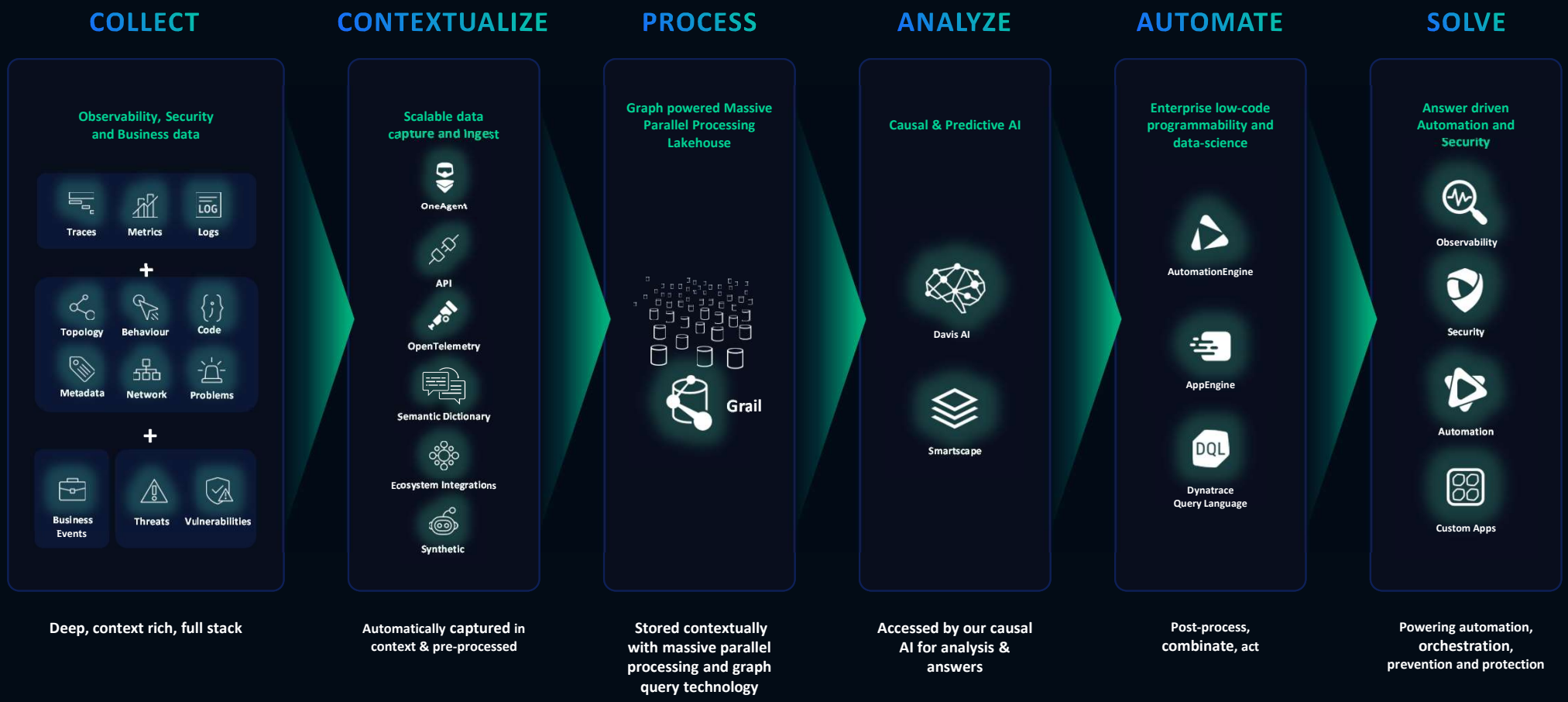


Deep, context rich, full stack

Automatically captured in context & pre-processed

Stored contextually with massive parallel processing and graph query technology

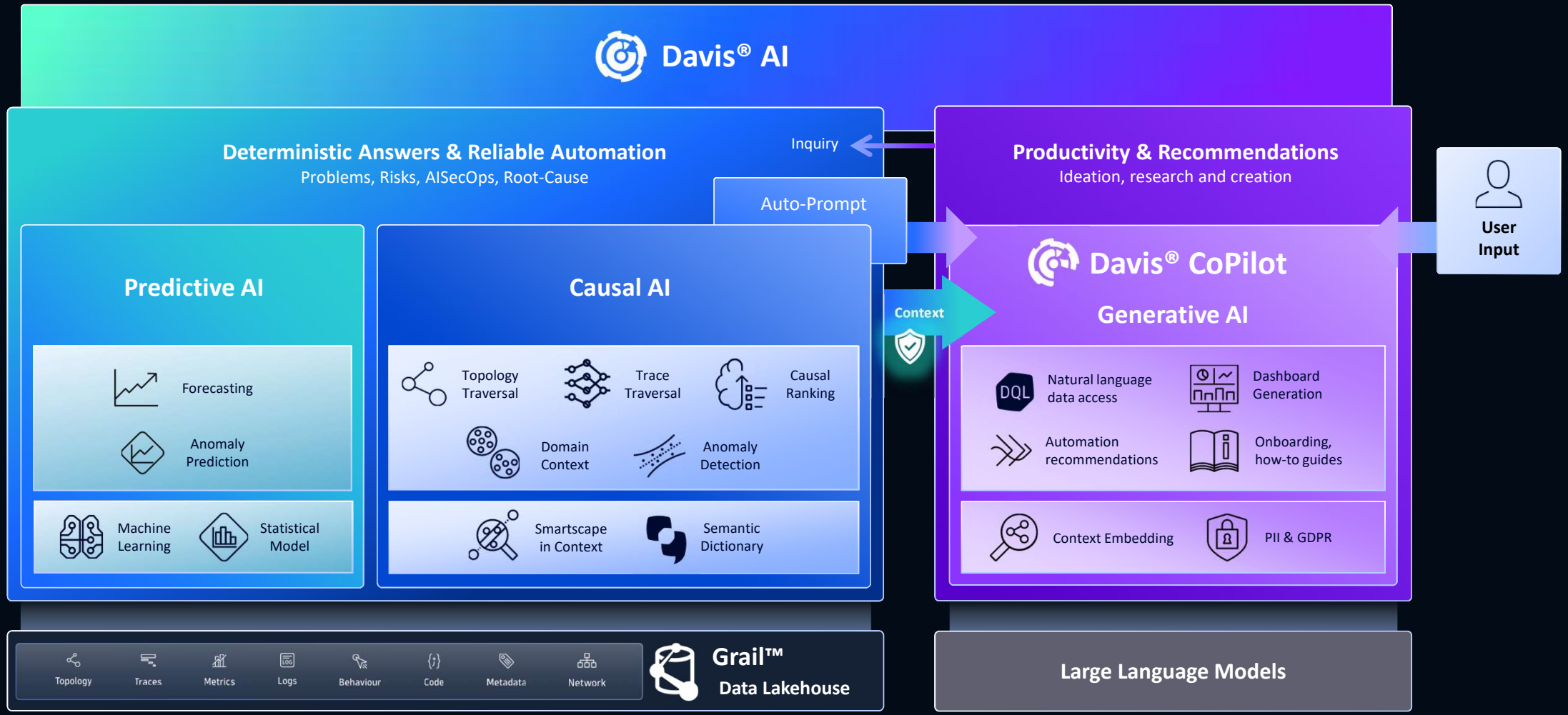
Accessed by our causal AI for analysis & answers

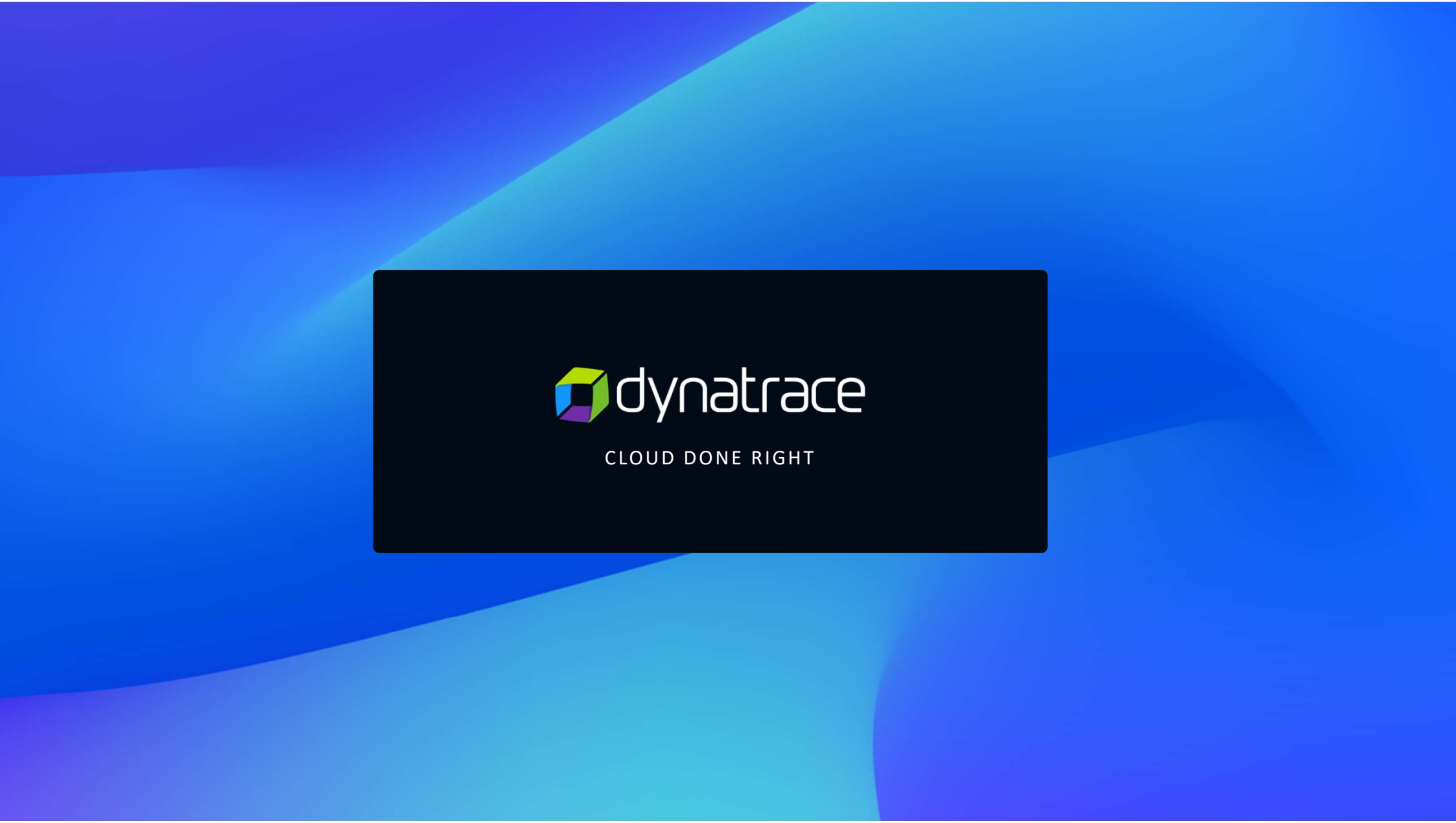
Post-process, combinate, act

Powering automation, orchestration, prevention and protection

dynatrace

Hypermodal AI for Unified Observability and Security

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