COLVIN RUN DEVSECOPS ENABLEMENT

Powered by Harness & Datadog

Colvin Run

www.colvinrun.net

harness

DATADOG

Colvin Run Networks, Inc.

Proprietary and Confidential | January 2023

Devsecops@colvinrun.net

SOLUTION AREAS

Colvin Run rapidly delivers user-driven solutions that enable organizations to harness their data like never before.

01 Curated Intelligence

02 Workflow Management

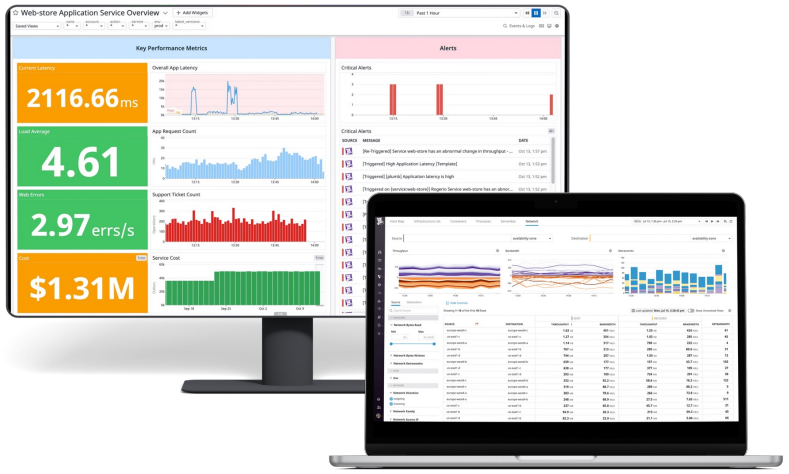
03 Data Management

04 Network Management

05 IT Assurance

INDUSTRY-LEADING TECHNOLOGY PARTNERS

DEVSECOPS ENABLEMENT



Goals

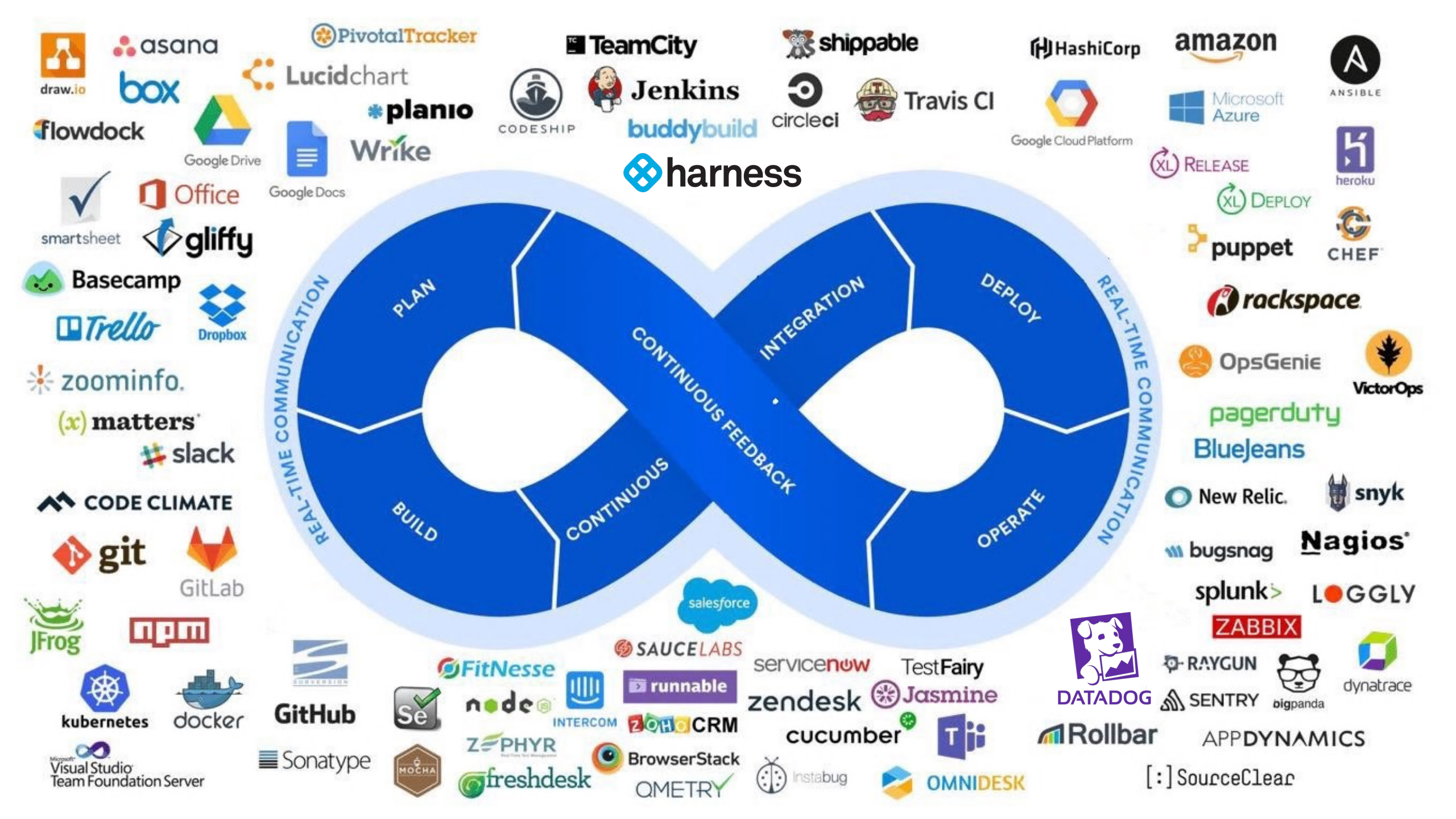
- Integrate existing Harness and Datadog solutions into an USAF DevSecOps implementation.
- Develop and demonstrate end-user enablement with Colvin Run's solution.

Approach

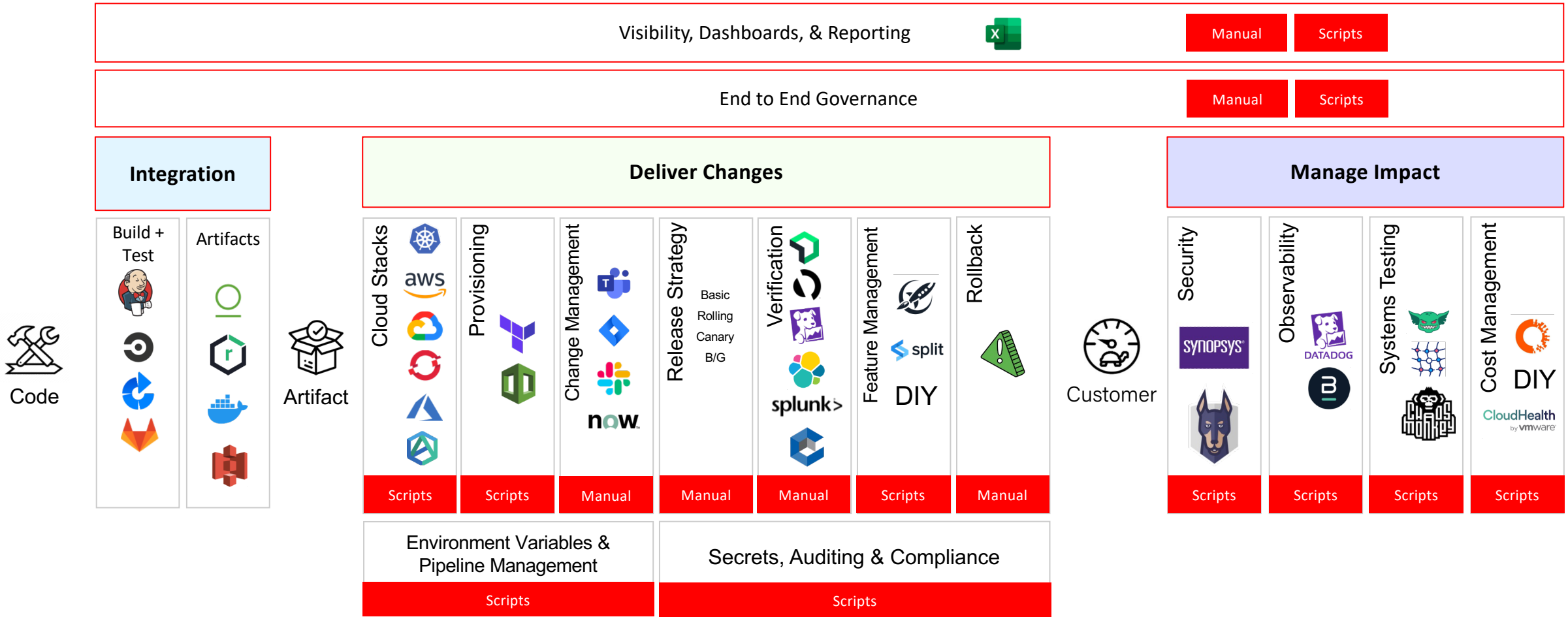
- Contextualize Harness modules and Datadog's software.
- Develop detailed integration steps to create compatibility between both platforms to USAF requirements.
- Demonstrate the Colvin Run capability with rapid prototypes and path to production.

Benefits

- Up to $1.2M for 12 months in AI/ML development funding from AFWERX SBIR with zero cost matching.
- Shape existing legacy third-party technologies into modernized solution.
- Fast, intuitive, visible analytics with ATO-ready software that is FedRAMP pending.


PLAN
CONTINUOUS
BUILD
CONTINUOUS FEEDBACK
INTEGRATION
DEPLOY
OPERATE
REAL-TIME COMMUNICATION
REAL-TIME COMMUNICATION
draw.io
asana
PivotalTracker
box
Lucidchart
planio
flowdock
Google Drive
Google Docs
Wrike
smartsheet
Office
gliffy
Basecamp
Trello
Dropbox
zoominfo.
(x) matters
slack
CODE CLIMATE
git
GitLab
JFrog
npm
kubernetes
docker
GitHub
Sonatype
Visual Studio Team Foundation Server
CODESHIP
TeamCity
Jenkins
buddybuild
shippable
circleci
Travis CI
HashiCorp
Google Cloud Platform
amazon
Microsoft Azure
ANSIBLE
RELEASE
heroku
DEPLOY
puppet
CHEF
rackspace
OpsGenie
VictorOps
pagerduty
BlueJeans
New Relic.
snyk
bugsnag
Nagios
splunk>
LOGGLY
ZABBIX
RAYGUN
bigpanda
dynatrace
DATADOG
SENTRY
Rollbar
APPDYNAMICS
[:] SourceClear
harness
salesforce
SAUCELABS
FitNesse
runnable
servicenow
TestFairy
zendesk
Jasmine
cucumber
INTERCOM
ZOHO CRM
ZEPHYR
BrowserStack
freshdesk
QMETRY
Instabug
OMNIDESK
MOCHA

The Current State of SDLC



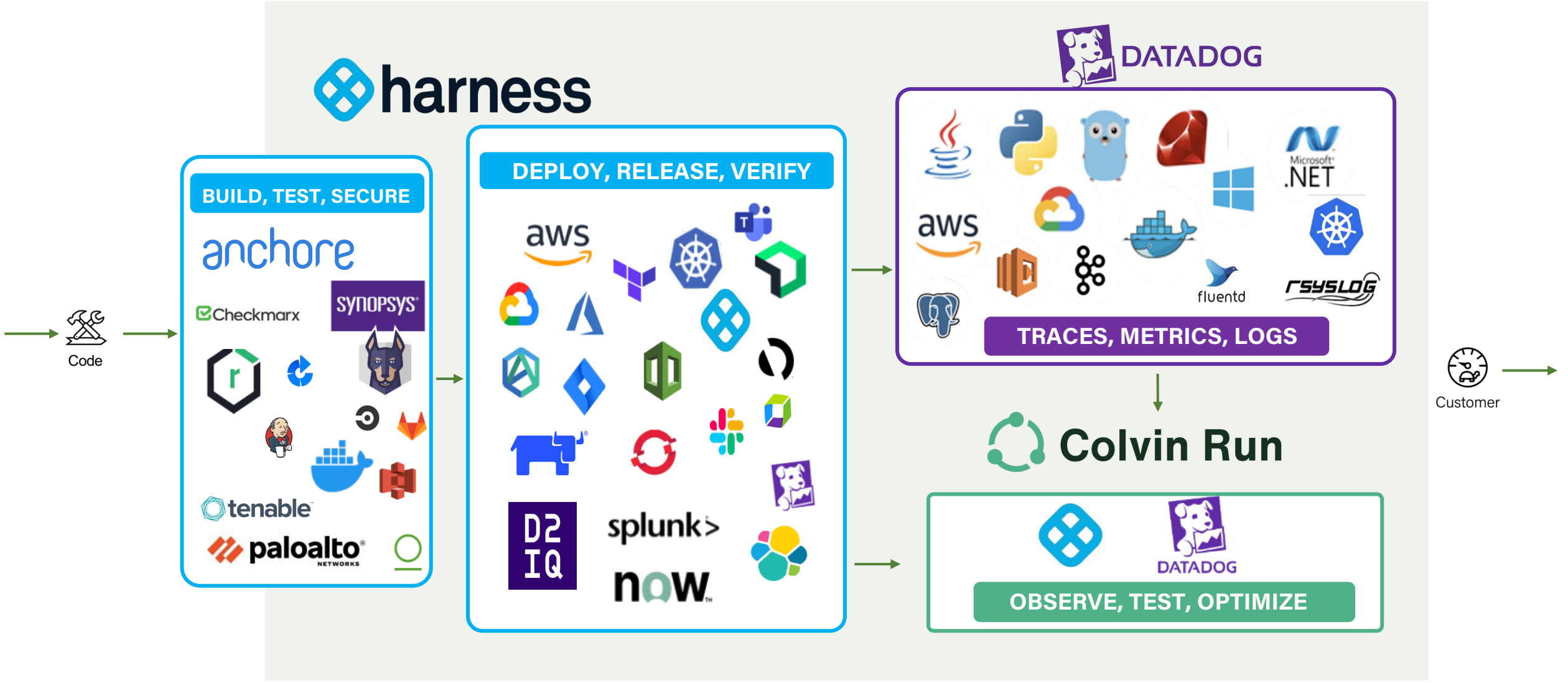
Slow

Brittle

Unreliable

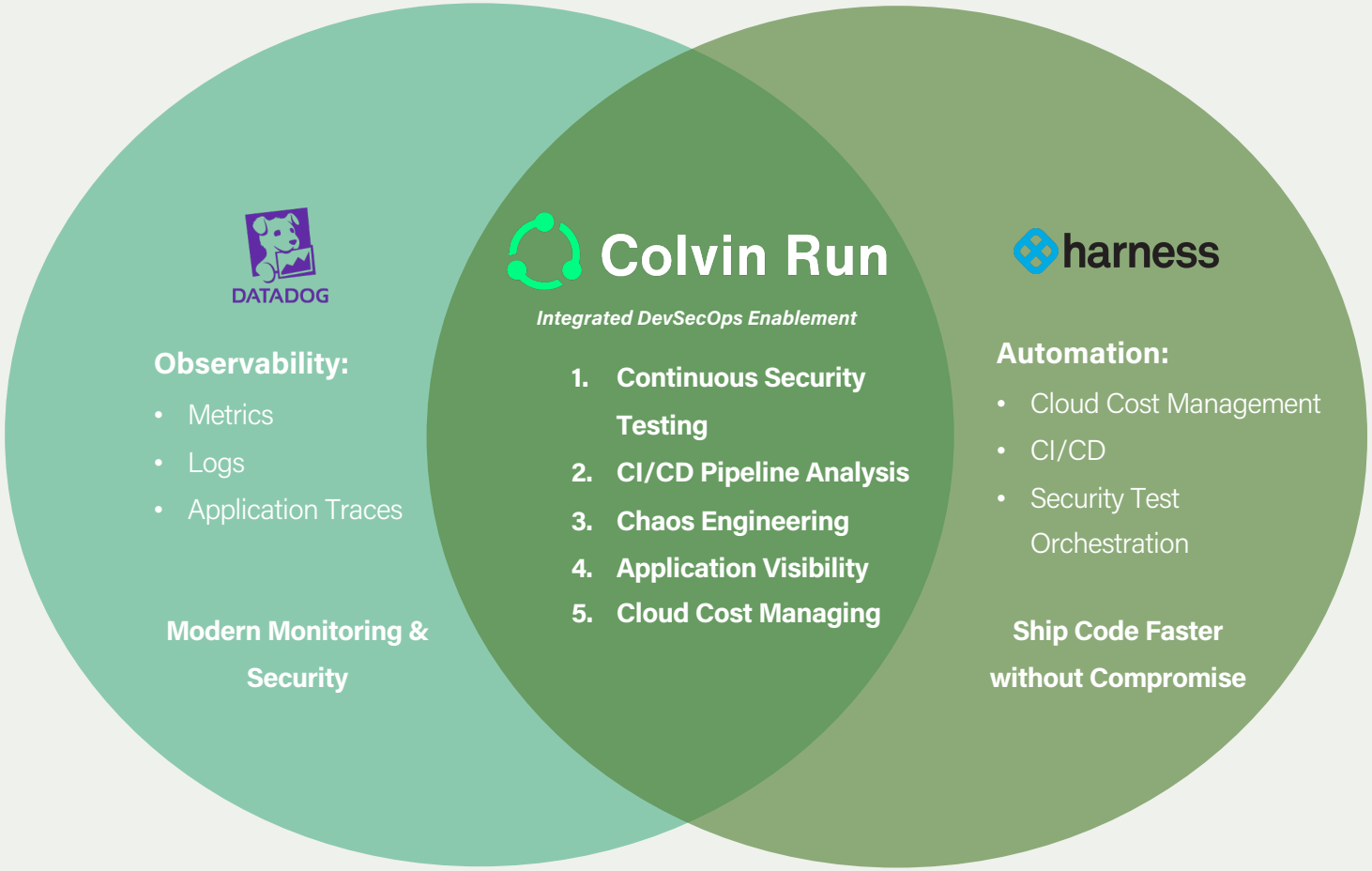
Costly

COLVIN RUN DEVSECOPS ENABLEMENT



COLVIN RUN DEVSECOPS ENABLEMENT

Unleash DevSecOps with our Integrated Enablement Platform



FAST. INTUITIVE. VISIBLE.

Continuous Security Deployment—
Automatically run security scanners at the right stages of the pipeline while monitoring integrations.

Pipeline Speed & Analysis—
Build & deploy mission-critical applications faster while continuously testing.

Chaos Engineering—
Run sets of chaos experiments on target system and observe results in order to make reliability improvements.

Transform DevOps Observability—
Visibility into every environment and every service.

Cloud Cost Transparency—
Understand granular spending and cost report while having transparency across infrastructures.

harness

DATADOG

CONTINUOUS SECURITY TESTING

When to Engage

Integrated with CI/CD

- Spending time maintaining tools and manually scripting
- Manual rendering of pages across browsers and tools

Intelligent Scanner Results

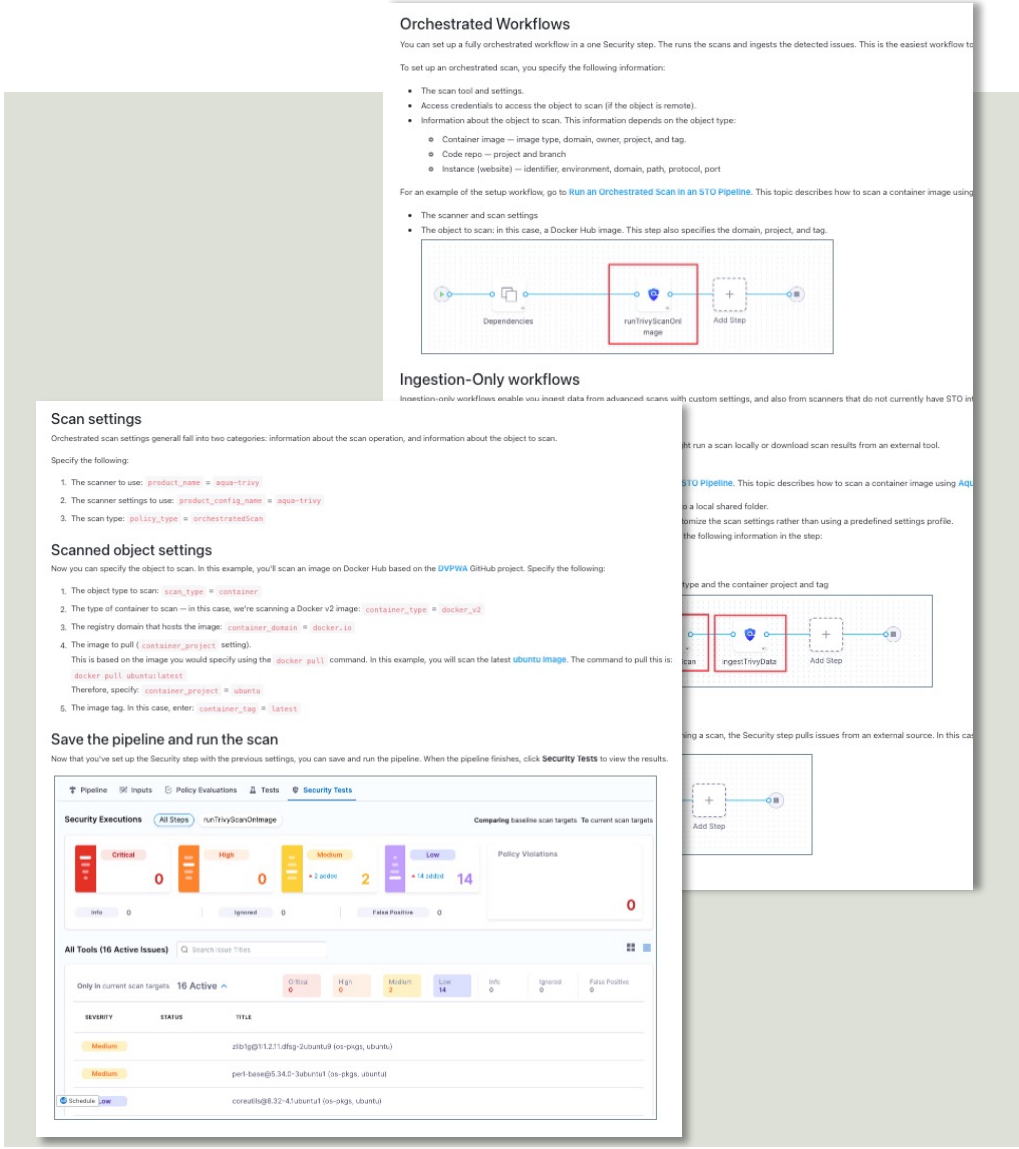
- Many different tools with disparate output
- Processing massive data lake from a scanner

Automated Pipeline Security

- Spending time coding end-to-end tests that break
- Minimal test coverage & stability for the application stack

Break Down Team Silos

- Struggles with verifying fixes were implemented
- Minimal collaboration across stages and teams



Interested in Continuous Security Testing? Click or Scan the QR Code to Contact Us!

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INTEGRATED CI/CD PIPELINE ANALYSIS

When to Engage

Compliance at Scale

- Can't maximize velocity
- We are re-platforming our applications to run on a more modern architecture

CI/CD Visibility

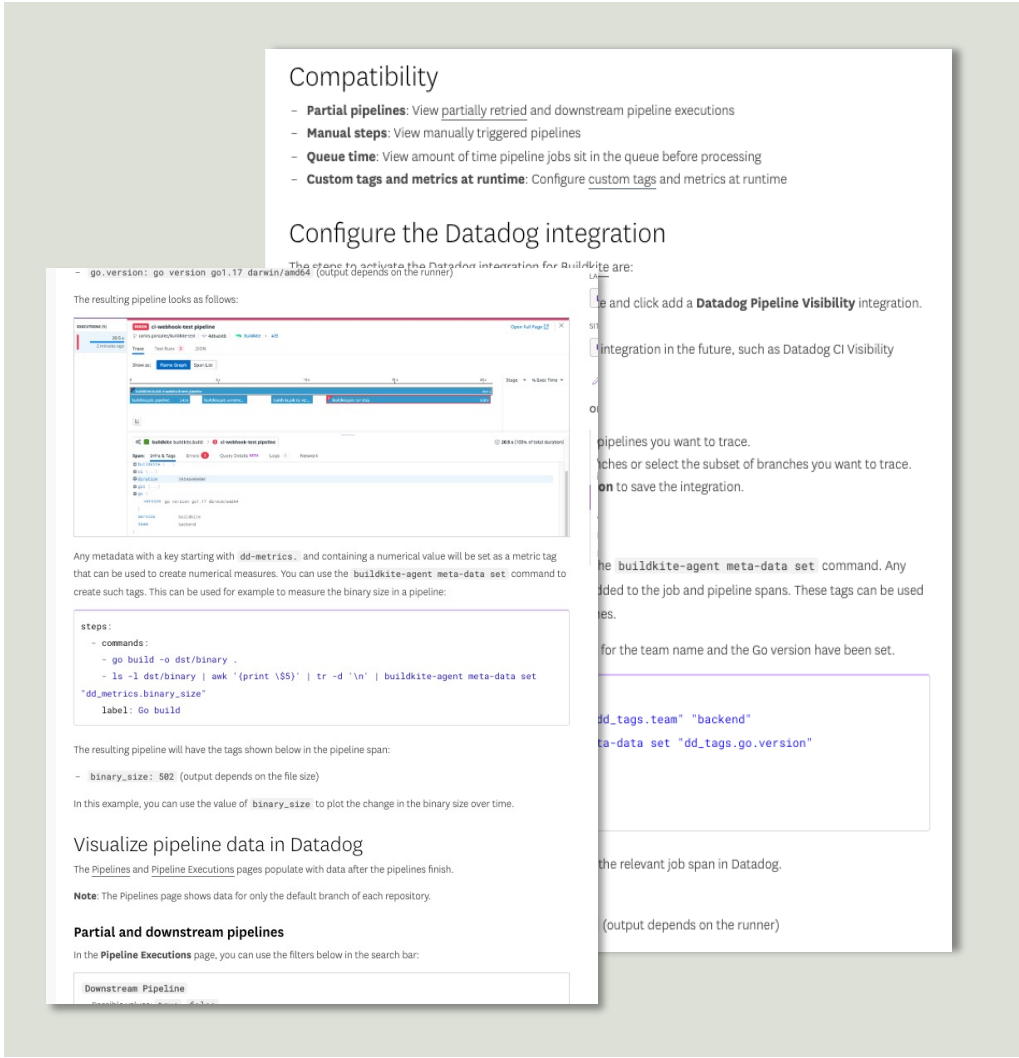
- Unable to quickly find reason for test or pipeline failure
- Lack of visibility on effect a given commit has on a pipeline

Intelligent Test Runner

- Unable to separate running tests on a given commit versus all

Pipeline health

- No metrics available to show build frequency, failure rate, average duration and 95th percentile duration



Interested in CI/CD Pipeline Analysis? Click or Scan the QR Code to Contact Us!

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CHAOS ENGINEERING

When to Engage

Integrated into CI/CD Systems

- Application failures with excessive logging to debug, too many retries, and service timeouts

Robust Experiments

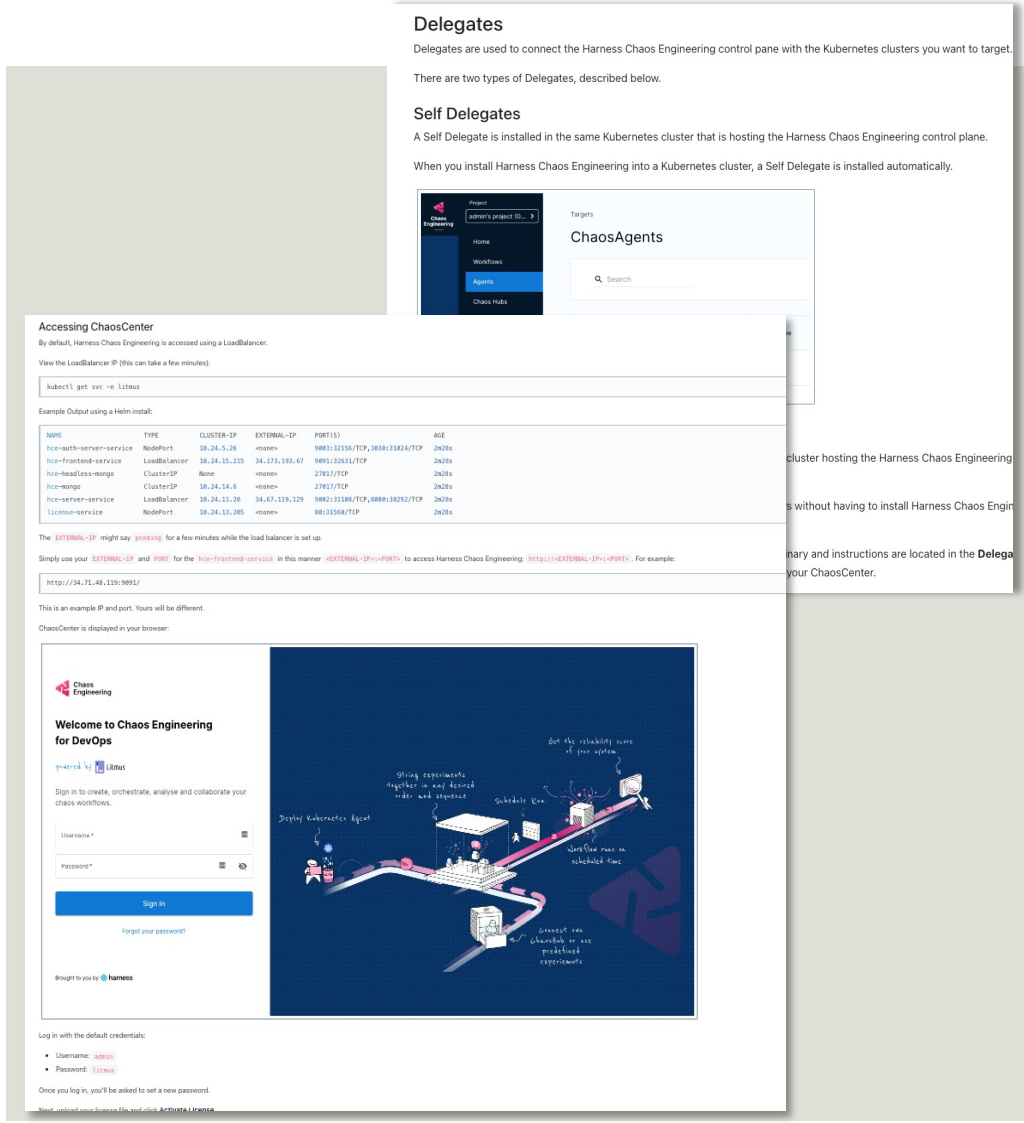
- Poor user experience
- Capacity issues and monitoring dashboards not available

Enable Observability

- Continuous infrastructure failures such as: device failures, network failures and regions not being available

Collaborative

- No centralized control plane



Interested in Chaos Engineering? Click or Scan the QR Code to Contact Us!

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APPLICATION VISIBILITY

When to Engage

Organization-wide visibility

- Lack of communication between teams and stages
- Engineers are unaware of upstream and downstream systems intertwined with their own

Collaboration

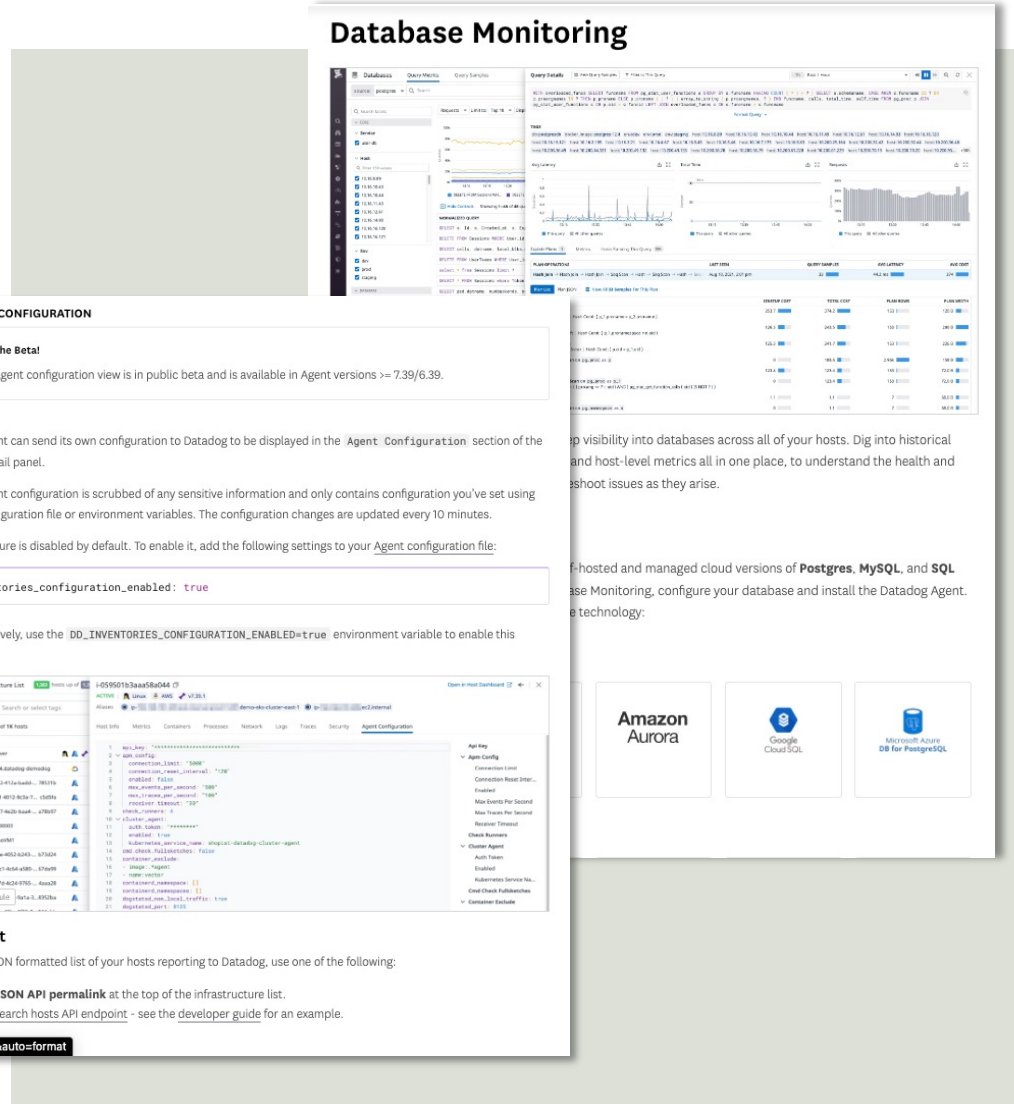
- Lack of visibility for users across the organization to evaluate data, collaborate, or share information

DevOps Automation

- Struggles with development workflows, error-prone manual processes, and over-burdening technical staff

Measure Everything

- No culture of measurement or observability



Interested in Application Visibility? Click or Scan the QR Code to Contact Us!

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CLOUD COST MANAGEMENT

When to Engage

Cost Transparency

- We're finding it hard to create cost clarity between teams, projects, and products

Cost Control

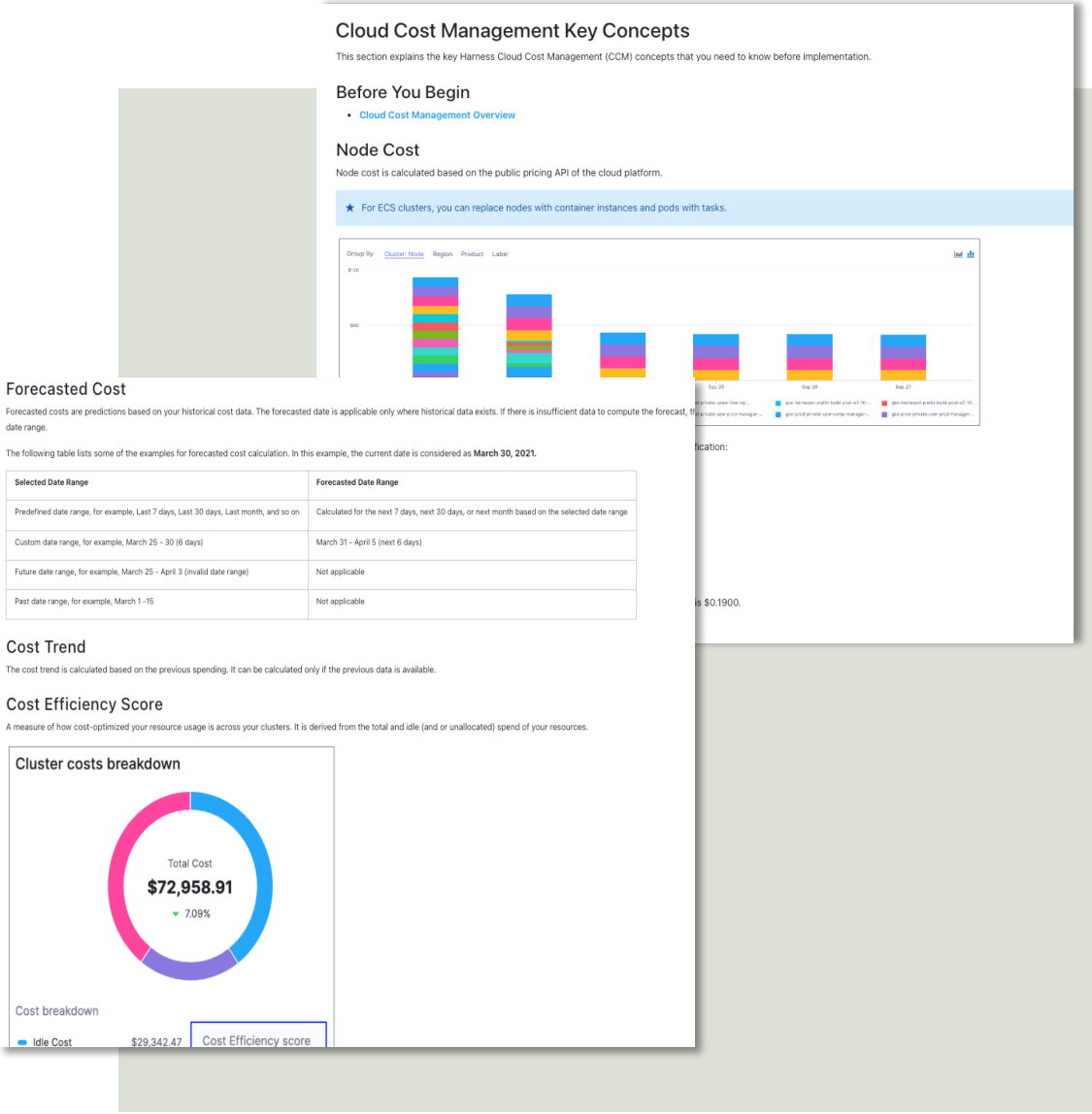
- We have disparate logging APM, synthetics, infra tooling today…it's not efficient and too expensive
- Costs are spiraling out of control

Cost Optimization

- We are missing context and intelligence for cost optimization

Cost Governance

- Users must manually turn on/off environments, often without clear understanding of impacts
- DevSecOps/IT are unable to respond to cost spikes quickly



Interested in Cloud Cost Management? Click or Scan the QR Code to Contact Us!

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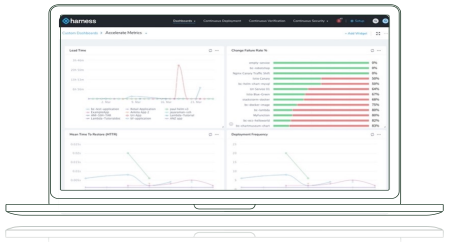
COLVIN RUN ADVANTAGES

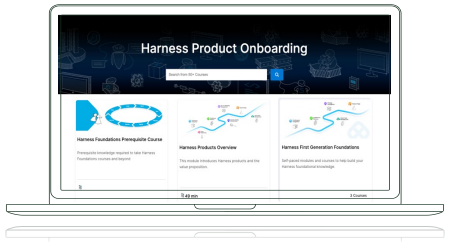
IMPLEMENTATION

- Colvin Run works directly with you to get DevSecOps up and running with our Harness + Datadog powered solutions
- Evaluate current processes & infrastructure to find best ways to implement without disruption
- Create product roadmap for migration



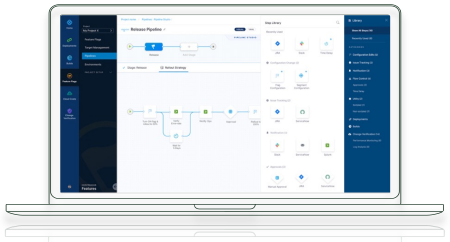
TRAINING

- Developed variety of training options
- Detailed documentation for customer-specific configurations
- Assist DevOps in adopting new products
- Security orchestration best practices



ONGOING SUPPORT

- Always on hand to handle any questions, training requests, or post-implementation issues
- Ticket-generated support for proactive assistance
- Accelerate initiatives like cloud migration and onboard new services



SBIR PHASE III (1/2)

Colvin Run's Small Business Innovation Research (SBIR) Phase I and II contracts provide Federal customers with a statutory justification & approval (J&A) for sole-source contracting.

- SBIR is a statutory program (15 U.S.C § 638), not a vehicle
- Federal Acquisition Regulation (FAR) 6.302-5 states that "Full and open competition need not be provided when…a statue expressly authorizes or requires that the acquisition be made through another agency or from a specified source."
- For purposes of a J&A, the Federal agency simply states that the SBIR Phase III award is derived from, extends, or completes efforts made under prior SBIR funding agreements and is authorized pursuant to 15 U.S.C. 638(r)(4)
- SBIR Phase III contracts receive small business credit, cannot be protested, have no subcontracting limit, and have no award value limit.

EXAMPLE COLVIN RUN SBIR PHASE III CONTRACTING ACTION

In Federal FY 2021, a key decision maker within the Small Business Administration's Office of Policy, Planning and Liaison (SBA-OPPL) was seeking cutting-edge data analyses for Federal procurement data.

Working with SBA-OPPL's cognizant Contracting Office, the decision maker was able to expediently issue an SBIR Phase III contract directly to Colvin Run in under 20 calendar days.

The SBA Contracting Officer referenced one of Colvin Run's prior SBIR Phase II contracts (US Navy Contract No. N68335-21-C-0001). While Colvin Run's original SBIR Phase II Contract was a different use case aimed at building a platform to analyze large volumes of P-8A Poseidon aircraft data, the SBA Contracting Officer was able to see that the SBIR Phase II Contract was rooted in data analytics, which could be extended to the SBA use case.

Competition conducted under Colvin Run's prior SBIR Phase II award satisfied FAR competition requirements.

The pre-competed data analytics SBIR was all that was required for justification to work directly with Colvin Run.

SBIR PHASE III (2/2)

Colvin Run can receive a sole-source SBIR Phase III contract from any Federal organization for requirements that derive from, extend, or complete work performed under our prior SBIR Phase I and II contracts.

DIRECT	SBIR Phase III contracts can be issued on a FAR-compliant sole-source basis, having already satisfied competition requirements in Phases I and II
RAPID	SBIR Phase III contracts can be awarded within a matter of weeks
EFFICIENT	Unlike other Small Business Set-Aside Vehicles, SBIR Phase III contracts have no 51% work-share requirement
	SBIR Phase III contracts can be structured as an IDIQ to address various, emerging requirements
	The GSA Office of Assisted Acquisition Services (AAS) is an expert at establishing SBIR Phase III vehicles
FLEXIBLE	No limits on the dollar size of an SBIR Phase III procurement
	Acquire products, production, services, research, research and development, or any combination
	Use any color of government funds (e.g. O&M, FMS, RDT&E) from any Agency
SECURE	Contracts or Task Orders can be issued with requirements for UNCLAS, SECRET, TS/SCI

Big Data Analytics
- Analytics Environment
- SECRET Clearance
- Cross Domain Engineering
- ISR ML Applications
- Containerized Applications

Contract N6833519C0437

Microelectronics Blockchain
- Quantitative Assurance
- Trusted Supply Chain
- Standards Implementation
- HW/SW Security
- Blockchain Solutions

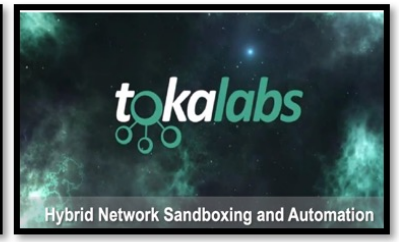
Contract HQ072720C0001

Maintenance Modernization
- User-centered CBM+ Apps
- Authoritative Data Environment
- Management Decision Aid
- Predictive Asset Management
- Logistics Applications

Contract FA864920C0113

Data Integration & Fusion
- Analytics Environment
- Applied Data Science
- Workflow Automation
- Cloud Compute Optimization
- Process Modernization

Contract FA875020P1626



Cybersecurity & Training
- Hybrid IT Infrastructure
- Cyber Operations
- Cloud Migration Support
- Hardware Enclave
- IT Process Automation

Contract FA864920P0673

Harness Software Delivery Platform

Deploy and Manage

Continuous Delivery — Build deployment pipelines in minutes, and safely deploy artifacts to production

Feature Flags — Release and manage features at scale

Build & Test

Continuous Integration — Automate build/test, and packaging of code to artifacts

Security Testing Orchestration — Consolidate/deduplicate all app security testing cross-enterprise while natively integrating into CI/CD

Chaos Engineering — Leverage ChaosNative—the company behind the LitmusChaos CNCF Project—to experiment on a production system and promote software resilience.

Create Reliability & Efficiency

Cloud Cost Management — Active cloud cost insights, recommendations, and automated optimizations

Service Reliability Management — Deliver on SLOs and SLAs, and ensure reliability with error budgets

Workloads

- Cloud-Native Apps
- Traditional Apps
- GitOps
- Mobile Apps
- Database Schemas
- IoT Code
- Big Data Pipelines
- ML Models
- Packaged SaaS Apps

The Three Pillars of Observability

Traces

Identify Cause Across Services

App Throughput, Latency, Errors

Request-Based

Metrics

Recognize Trends/Patterns

System & Middleware Performance

Often Combined or Aggregated

Logs

Investigate Incidents

Debugging & Troubleshooting

Event-Based

BUSINESS ANALYTICS

Logins

Items in Shopping Cart

Total Trips

Ad Revenue

ADMINISTRATIVE & CONTACT INFO

SBIR CONTRACT SELECTIONS

Phase I	10
Phase II	9
Phase III	2

NAICS CODES

541330	Engineering Services
541511	Custom Computer Programming
541512	Computer Systems Design
541519	Other Computer Related Services
541611	General Management Consulting
541715	Research and Development

SBIR AWARDED TOPIC AREAS

Automation
Blockchain
Business Intelligence
Cloud
Data Analytics
Machine Learning
Maintenance
Modernization
Networking

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