



Trust in Your APIs with Runscope

Your business relies on your app and your app relies on APIs

February 2018





The Application Economy is evolving to

The API Economy.

APIs are the applications that run your business.

What is the API Economy?

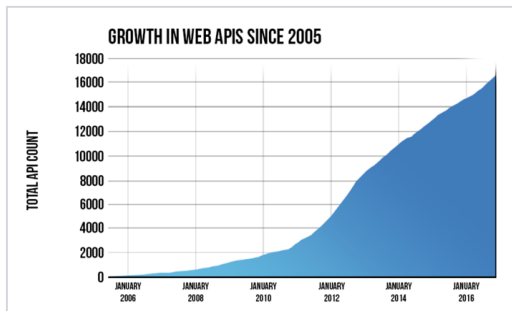


APIs **are the building blocks** of applications.

Companies are **exposing back-end systems** as APIs

Potential opportunities to **grow revenue and partnerships**

In Today's Environment



API touchpoints are growing rapidly



More systems rely on 3rd party connections



More pressure to provide a high level of service..

The bar is rising. More users expect things to “just work.”

The API Economy Is Here to Stay



"Today, a firm without application program interfaces (APIs) ... is like the internet without the World Wide Web."



"Nearly every enterprise today runs on APIs: eBay generates 50 percent of its revenue through APIs while Expedia generates nearly 90 percent."



"The rise of the internet of things and its need for APIs to tie sensors to each other and to the internet, has led to a growing importance of APIs."

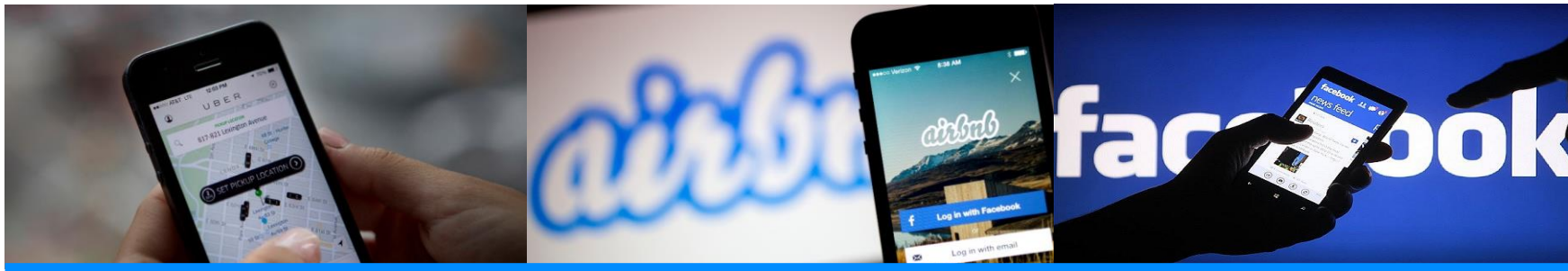


"APIs have conquered the world and turned many industries upside down, like those in the IoT space."



Everyone is Disrupting via APIs

From these so-called "unicorn" startups...



To longstanding industry "horses"



An API Failure is an Application Failure

When APIs Break...

Connections Break



Great Experiences Turn Sour

Chart reveals Tesla API outage that downed Model S, X app users

By Gene
Posted on March 8, 2017



Revenue is Lost

'Unprecedented' Bitcoin Boom Sees Coinbase, Kraken Suffer Outages

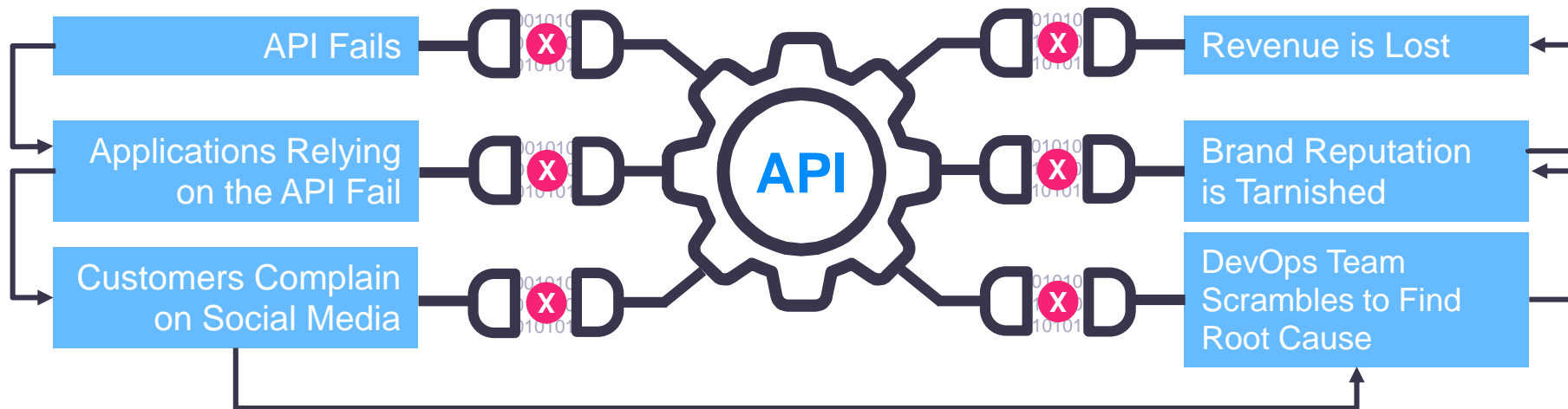
“ The website and API are currently slow or unresponsive for many clients. We are working to resolve but do not have an ETA for when things may return to normal at this time. We are currently seeing all-time record traffic and performance may not return to normal until the load goes down.

Data from Kraken's status page reveals three instances of downtime on Thursday for the website, while its API has fared worse.



An API Failure is an Application Failure

What Happens When No One is Watching...



**Most applications now have hundreds of APIs making remediation time consuming.
When even one API is down, so is your business.**

- **Catch API failures** before your customers do
- **Understand when 3rd party APIs go down** and how they affect app performance
- **Ensure SLAs are being met** for your APIs or the APIs you depend on
- **Synthetically monitor API performance** around the world
- Verify that APIs are returning the **right data**
- **Flexible and easy to use solution**
- **SaaS-first offering**

OVER 1,000 CUSTOMERS DEPEND ON RUNSCOPE



A DevOps Approach for API Monitoring



- Creates and schedules tests to monitor APIs
- Monitors in-house and third-party APIs
- Ensures APIs are returning the right data
- Monitors APIs with tests enhanced from anomalies found in development and production



- Monitors APIs in production using tests created in development
- Adjusts and creates new test to address blind spots and makes them available to development
- Determines if slow or broken APIs are affecting the user experience

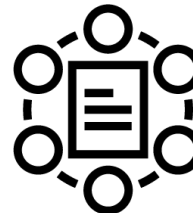
RUNSCOPE MONITORS



Uptime



Performance




Data Integrity

Prevent Broken APIs From Affecting Your Bottom Line



Uptime

 CA TECHNOLOGIES
My Online Shopping

Tests




Invite Team Docs Help

API Tests

Create Test Shared Environments Bucket Settings

SORT BY Failures First TIMEFRAME Last Day STYLE List

FILTER ex: My API Test Run All Tests

NAME	STATUS	LATEST RESULTS	SUCCESS RATIO	AVG. RESPONSE TIME
Credit Card API	Failed — Just Now		86.46% +1.16%	353.53ms -4ms
Cart API	Passed — Just Now		98.98% +3.49%	237.02ms -8ms
Catalog (SOAP API)	Passed — Just Now		94.11% -0.89%	32.34ms --

Run continuous API monitors to gain visibility into API problems so you can prevent, identify and solve them fast—before your customers notice.



Ensure API Service Level Agreements



Performance



Uptime

Success Ratio



LAST 24 HOURS

86.46%

19022/22000

LAST 7 DAYS

85.81%

37556/43764

LAST 30 DAYS

69.29%

57681/83244

Latest Test Results

OLDEST

MOST RECENT



Showing 7 minutes of test results.

Ensure the APIs you develop and 3rd-party APIs you use are meeting SLA commitments

Monitor API Performance Around the World



Monitor API performance from 8 countries and 16 locations

Keep Slow Performing APIs from Affecting the User Experience



Stay ahead of intermittent failures before they become major issues with the API Dashboard and daily API Performance Report.

Verify That APIs Are Returning the Right Data

▼ {{BaseURL}}

GET /api/deck/{{deck_id}}/draw/?count=2

Request **Assertions⁴** Variables Pre-request Scripts Post-response Scripts

Define the criteria for a successful request. We recommend creating at least one assertion. [Learn more.](#)

SOURCE	PROPERTY	COMPARISON	TARGET VALUE
Status Code	—	equals (number)	200
Response Time (ms)	—	less than	500
JSON Body	remaining	equals (number)	49
JSON Body	deck_id	is not empty	

▶ deckofcardsapi.com

GET /api/deck/qfdd2gclxrko/draw/?count=2

VARIABLES USED

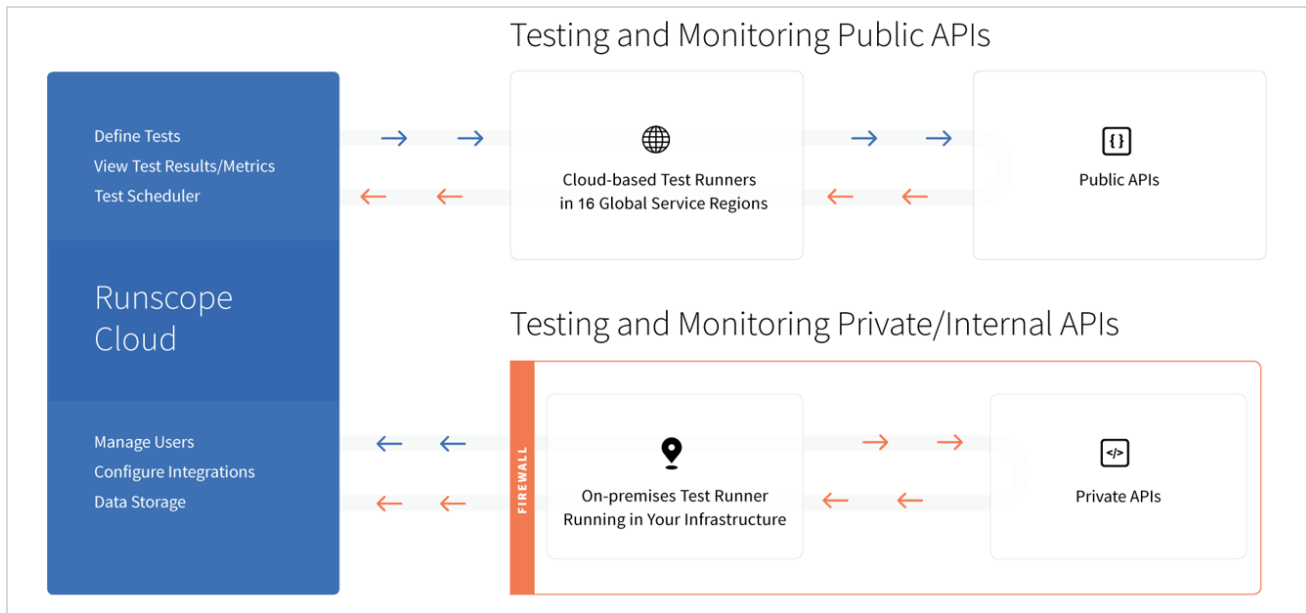
- ✓ Request 'host' set to 'deckofcardsapi.com'
- ✓ Request 'path' set to '/api/deck/qfdd2gclxrko/draw/'

ASSERTIONS

- ✓ Status — '200' was a number equal to 200
- ✗ Response Time of 506.0ms was not less than 500
- ✗ body.remaining — '50' was not a number equal to 49
- ✓ body.deck_id — was not empty

Verify that the structure & content of your API calls meets your expectations. Flexible assertions give you total control over defining a successful API call.

Monitor APIs in the Cloud and On-premise



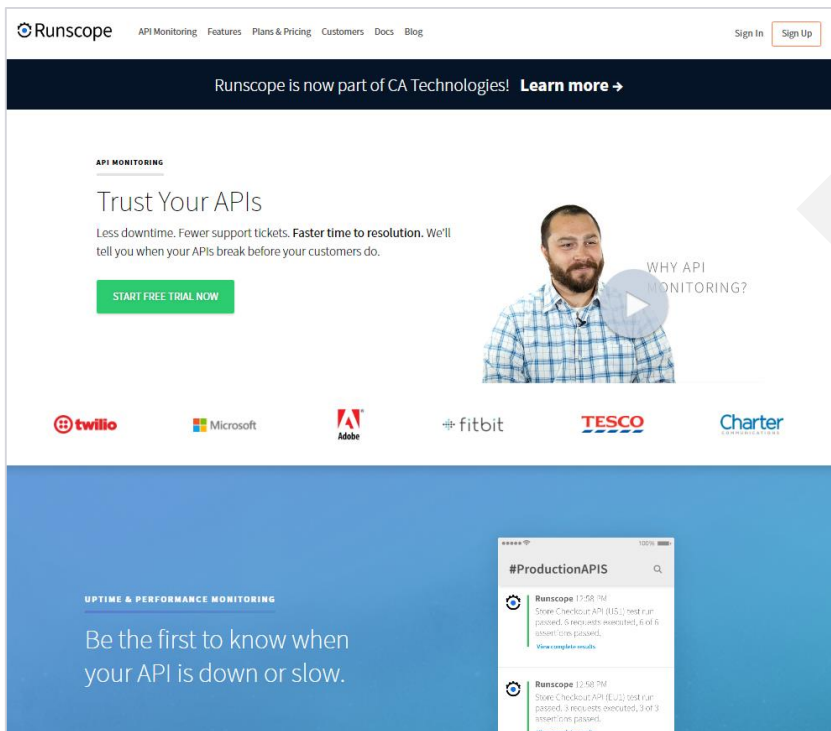
Monitor private APIs with an on-premise agent.

TRUST IN YOUR APIS WITH RUNSCOPE

- **Be the first to know** when an API is down or slow
- **Monitor 3rd party APIs** for uptime and performance
- **Ensure SLAs** are being met
- Achieve a **global view of API Performance**
- Verify your API payloads are **returning the correct data.**
- **Solve API problems as a team** & improve collaboration among developers and operations.

Less downtime. Fewer support tickets. Faster time to resolution.

Start Monitoring in Less Than 5 Minutes



Runscope

API Monitoring Features Plans & Pricing Customers Docs Blog

Sign In Sign Up

Runscope is now part of CA Technologies! [Learn more ->](#)

API MONITORING

Trust Your APIs

Less downtime. Fewer support tickets. **Faster time to resolution.** We'll tell you when your APIs break before your customers do.

[START FREE TRIAL NOW](#)

WHY API MONITORING?

twilio Microsoft Adobe fitbit TESCO Charter

UPTIME & PERFORMANCE MONITORING

Be the first to know when your API is down or slow.

#ProductionAPIS

Runscope 11:58 PM
Status: Checkup API (11:51) test run passed, 5 requests executed, 6 of 6 status codes passed.
[View complete results](#)

Runscope 12:58 PM
Status: Checkup API (12:12) test run passed, 3 requests executed, 3 of 3 status codes passed.
[View complete results](#)

Start your Free Trial today:
www.runscope.com



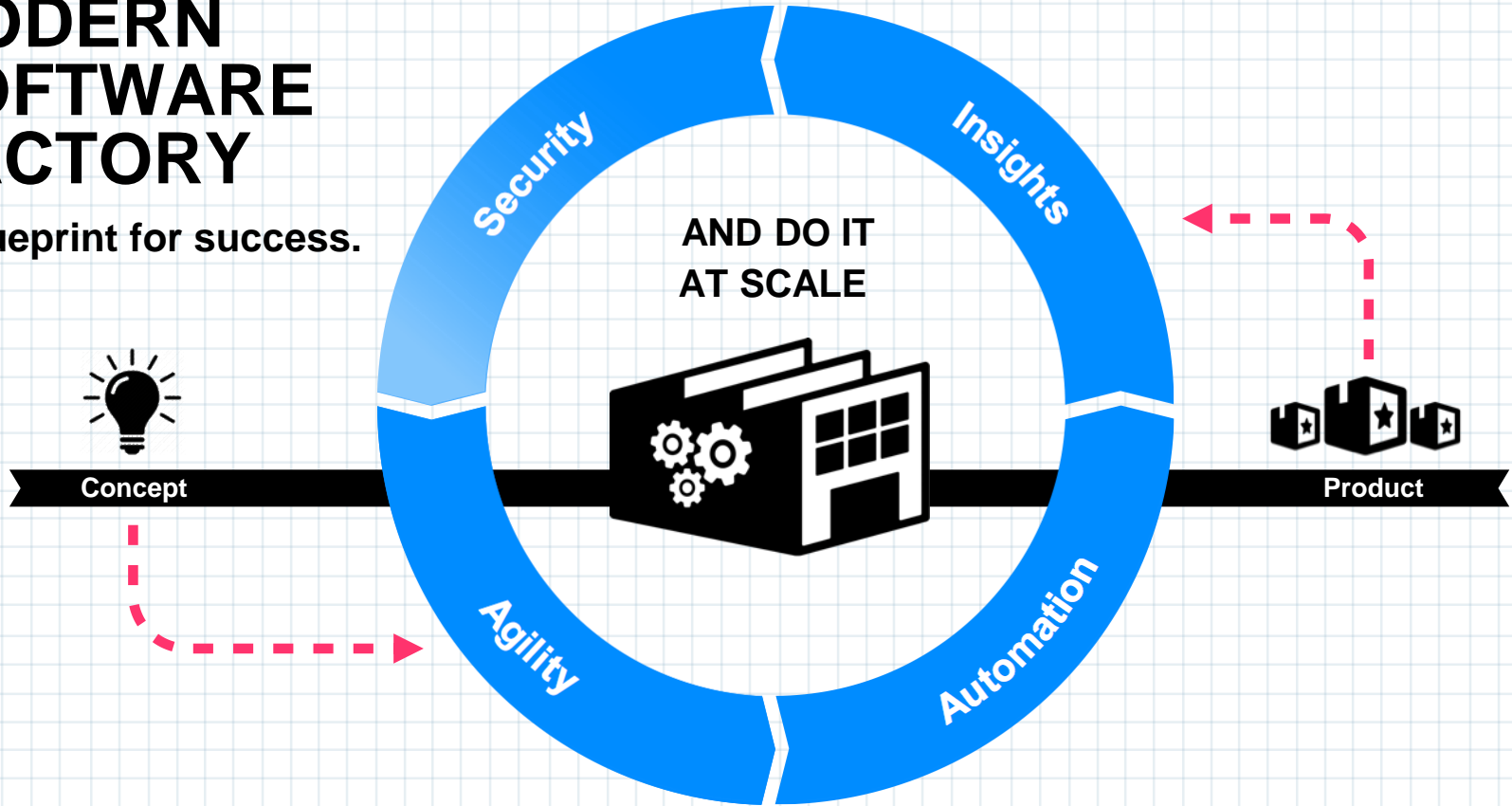
Demo



Backup Slides

THE MODERN SOFTWARE FACTORY

A blueprint for success.

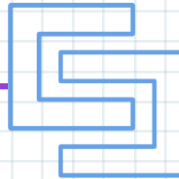


THE MODERN SOFTWARE FACTORY

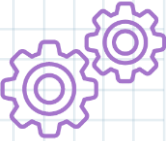
**RUNSCOPE
CA BLAZMETER**



OUTSIDE-IN



**CA API PRECISION
MONITORING**

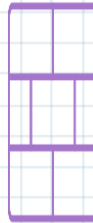


INSIDE-OUT

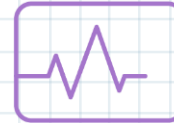
SYNTHETICS



API Availability
SLA Monitoring
Data Integrity
Performance at Scale



BACKEND SYSTEMS



API Performance
Full Trace Visibility
Component Break-down



Are you able to answer these questions?

How do I continuously validate API uptime in production?

Is your DevOps team equipped to identify & resolve API issues before it affects customers?

How do I correlate API performance to user experience?

Is the API functioning properly?

How do I know if I'm meeting my SLAs or SLAs are being met?

Runscope Integrations

Notify



Release



Jenkins



Insight



And many more...

technologies

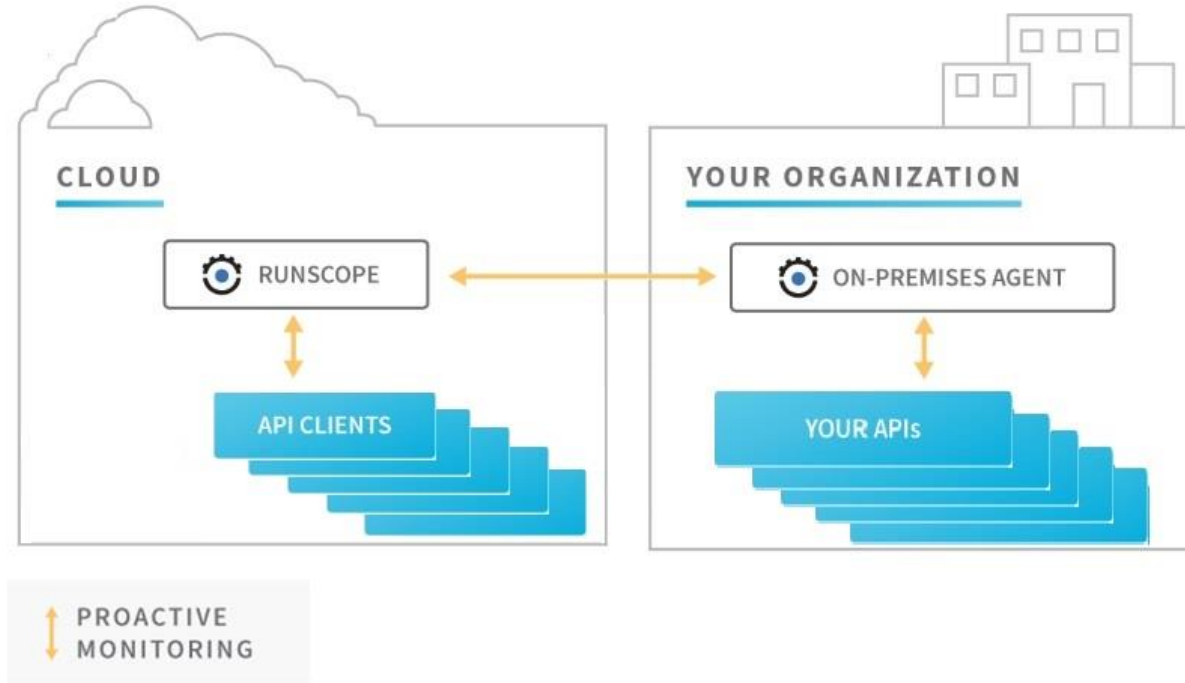
Easily Import Monitoring Tests

The screenshot shows the Runscope Monitors web application. On the left sidebar, the 'Import' option is highlighted. The main content area is titled 'Import Tests into Runscope Monitors' and includes a sub-header 'Step 1: Select a format to import.' followed by a list of import formats: Runscope API Tests, SmartBear SoapUI / Ready! API, Swagger 2.0 (JSON), AWS API Gateway, HTTP Archive (HAR), Postman Collection v1 / Data Dump, Paw, Fiddler, and VCR Cassettes (YAML or JSON). The top navigation bar includes links for 'Invite Team', 'Docs', 'Help', and a user profile icon.

Quickly import monitoring tests from a wide variety of platforms.



Runscope Proactive Monitoring



Quick Reference Links

[Runscope Customer Stories](#)
[Runscope Webinars](#)
[Runscope Documentation](#)



[API Monitoring](#) [Features](#) [Plans & Pricing](#) [Customers](#) [Docs](#) [Blog](#)

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Runscope Documentation

[API Monitoring](#)

[API Traffic Inspector](#)

[Accounts & Billing](#)

[Runscope API](#)

API Monitoring

Verify the performance and uptime of your APIs with functional monitoring.

[Getting Started](#)
[Validating Responses & Data](#)
[Global Monitoring](#)
[Accessing Private APIs](#)
[Notifying Your Team About Downtime](#)
[3rd-party Analytics Integrations](#)

Traffic Logging & Debugging

Quickly diagnose integration headaches with complete API traffic logging.

[Getting Started](#)
[Inspecting API Calls](#)
[Debugging Webhooks with Request Captures](#)

Real-time Traffic Monitoring

Monitor your live API traffic and receive notifications when matches are detected.

[Getting Started](#)
[Collecting Traffic for Alerts](#)
[Setting Up Notifications](#)

Runscope API

Programmatically interact with your Runscope account data.

[Overview](#)
[Resource List](#)
[Results](#)
[Ingesting Requests](#)

