

TESTING IN PRODUCTION

IDG 2018 CLOUD SURVEY

- » 77% of enterprises have at least one application in the cloud
- » 60% of all IT infrastructure and, 60-70% of all software, services and technology spending by 2020.

AWS, GOOGLE AND AZURE TURNING INTO AN API MARKETPLACE



**MAJOR RISKS ARE NOW
TESTABLE ONLY AFTER
DEPLOYMENT**



**WE CAN'T PREDICT
UNKNOWNNS,
BUT WE CAN SPOT
WHEN THEY HAPPEN**

1. BEHAVIOUR CHANGES



BASELINE AND TRACK PERIODIC TRENDS

A grayscale background image showing a person's torso and arms. A white measuring tape is wrapped around their waist, and another person's hands are visible, holding the tape measure against the person's side. The scene is brightly lit, creating a high-contrast, almost ethereal effect.

USE BEHAVIOUR CHANGES AS ACCEPTANCE CRITERIA

2. CLIENT-SIDE ERRORS



BROWSERS WITH COOKIE BLOCKING

- » 22.0% Globally
- » 32.0% Germany
- » 28.7% France
- » 25.2% US

Exception Tracking | Analytics | X

https://developers.google.com/analytics/devguides/collection/analyticsjs/exceptions

Apps File: README → A... daily check

Google Analytics > Tracking > analytics.js

Search ALL PRODUCTS

GUIDES REFERENCE SUPPORT

Exception Tracking

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This guide describes how to send exceptions using analytics.js. Exception tracking allows you to measure the number and type of crashes or errors that occur on your property.

Implementation

Exception hits can be sent using the `send` command and specifying a `hitType` of `exception`. The `send` command has the following signature for the `exception` hit type:

```
ga('send', 'exception', [fieldsObject]);
```

Exception fields

CLIENT ERROR TRACKING POPULARITY

- » Not tracking errors: 53%
- » Web analytics: 15%
- » Sentry.io: 15%
- » TrackJS.com: 4%
- » Rollbar.com: 3%

**SEPARATING SIGNAL
FROM NOISE IS
CRITICAL FOR CLIENT-
SIDE ERROR TRACKING**

3. LOG ANOMALIES

POPULAR TOOLS

- » Splunk
- » Graylog
- » Logstash

APPROACH LOGGING AS A FIRST-ORDER INTERFACE

NEW OPPORTUNITIES

- » Speed up testing
- » Safer deployments
- » New types of insights



```
aws-sfn-lambda-deployment: x
  - Effect: "Allow"
    Action:
      - "s3:ListAllMyBuckets"
    Resource: '*'
  DeploymentPreference:
    Type: Linear10PercentEvery1Minute
  Hooks:
    PreTraffic: !Ref preTrafficHook
  Events:
    Api:
      Type: Api
      Properties:
        Path: /test
        Method: get
  - preTrafficHook
```



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Supports up to 1,000 users for heatmap, forms and recordings	Supports up to 1,000 users for heatmap, forms and recordings	Supports up to 1,000 users for heatmap, forms and recordings
Manage up to 10,000 recordings	Manage up to 10,000 recordings	Manage up to 1,000 recordings
Heatmaps, forms and recordings	Heatmaps, forms and recordings	Heatmaps, forms and recordings
File storage for 1 year	File storage for 6 months	File storage for 3 months
Remote user tracking		
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HUMANS VS COMPUTERS

by Gojko Adzic

