



**INOVASYS**

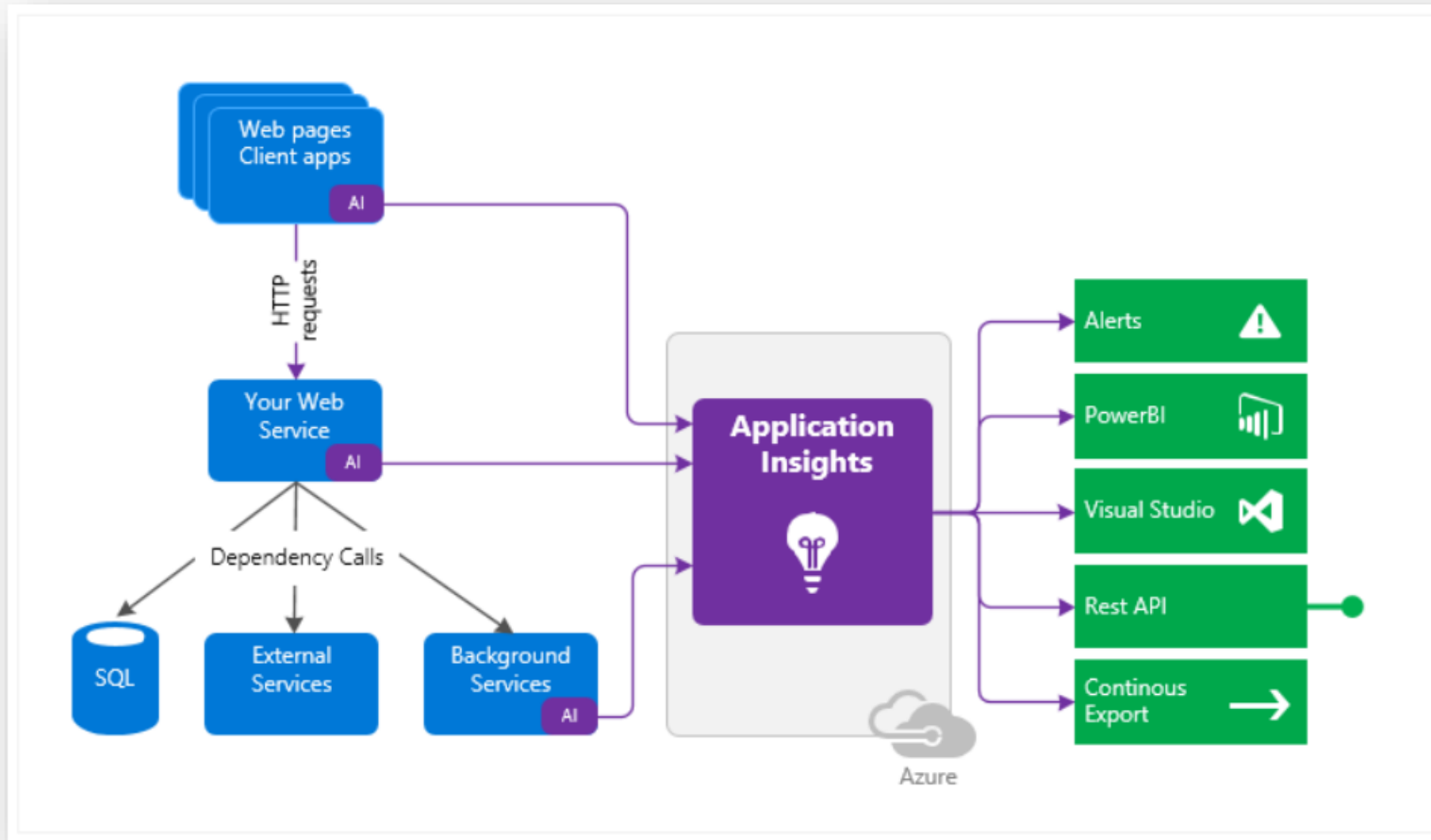
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Think**BIG**

# Application Insights



# Application Insights



You install a **small instrumentation package in your application**, and set up an Application Insights resource in the Microsoft Azure portal.

The instrumentation monitors your app and **sends telemetry data to the portal**.

You can instrument not only the **web service application**, but also any **background components**, and the JavaScript in the **web pages** themselves.

# What kinds of data are collected?

The main categories are:

- **Web server telemetry** - HTTP requests. Uri, time taken to process the request, response code, client IP address, Session id.
- **Web pages** - Page, user and session counts. Page load times. Exceptions. Ajax calls.
- **Performance counters** - Memory, CPU, IO, Network occupancy.
- **Client and server context** - OS, locale, device type, browser, screen resolution.
- **Exceptions and crashes** - stack dumps, build id, CPU type.
- **Dependencies** - calls to external services such as REST, SQL, AJAX. URI or connection string, duration, success, command.
- **Availability tests** - duration of test and steps, responses.
- **Trace logs and custom telemetry** - anything you code into your logs or telemetry.

# Supported Languages and Frameworks





APPLICATION INSIGHTS

Ask a question about the data on this dashboard

[How to ask](#)

Users  
LAST 7 DAYS

17K

Users  
LAST 30 DAYS

44K

Page Views  
LAST 7 DAYS

152K

Page Views  
LAST 30 DAYS

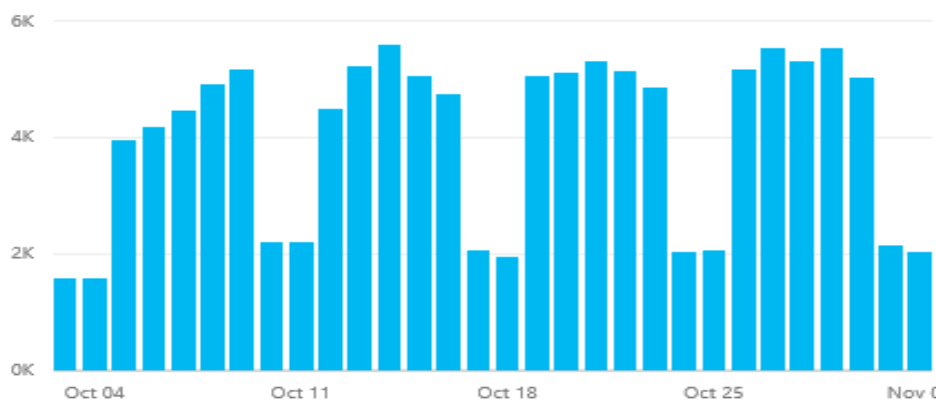
506K



Unique count of users by Country or region  
LAST 30 DAYS



Users  
LAST 30 DAYS



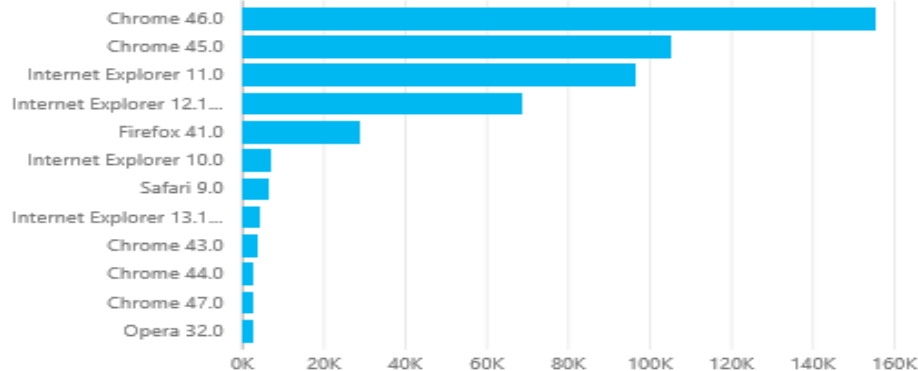
Application Details

Application Na... Resource Group  
Subscription ID

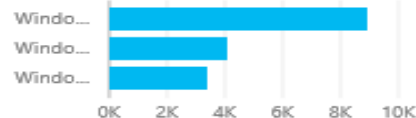
Sessions  
LAST 7 DAYS

46K

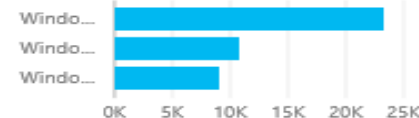
Total of page views by Browser version  
LAST 30 DAYS



Unique count of users by Operati...  
LAST 7 DAYS



Unique count of users by Operati...  
LAST 30 DAYS



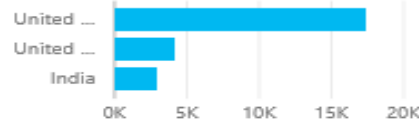
Sessions  
LAST 30 DAYS

176K

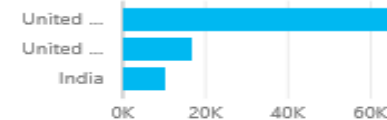
Unique count of sessions by Coun...  
LAST 7 DAYS

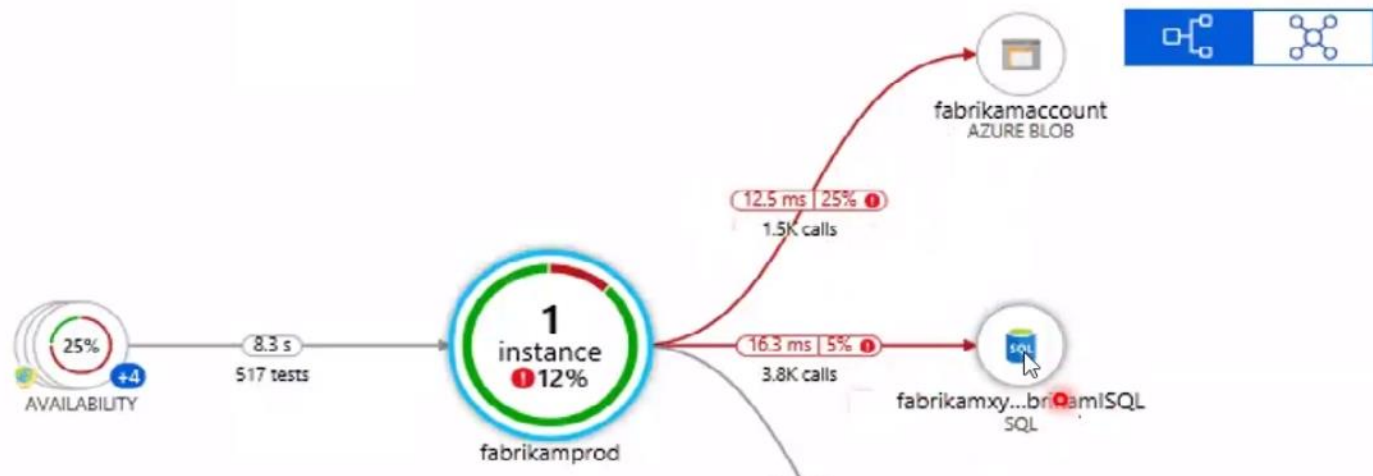


Unique count of sessions by Coun...  
LAST 7 DAYS



Unique count of sessions by Coun...  
LAST 30 DAYS





## fabrikamprod

Filter by this node

View in Analytics

TOP FAILING REQUESTS BY NAME

NAME	COUNT
GET ServiceTickets/Details	600
GET Employees/Details	200
POST ServiceTickets/Create	195

Investigate failures

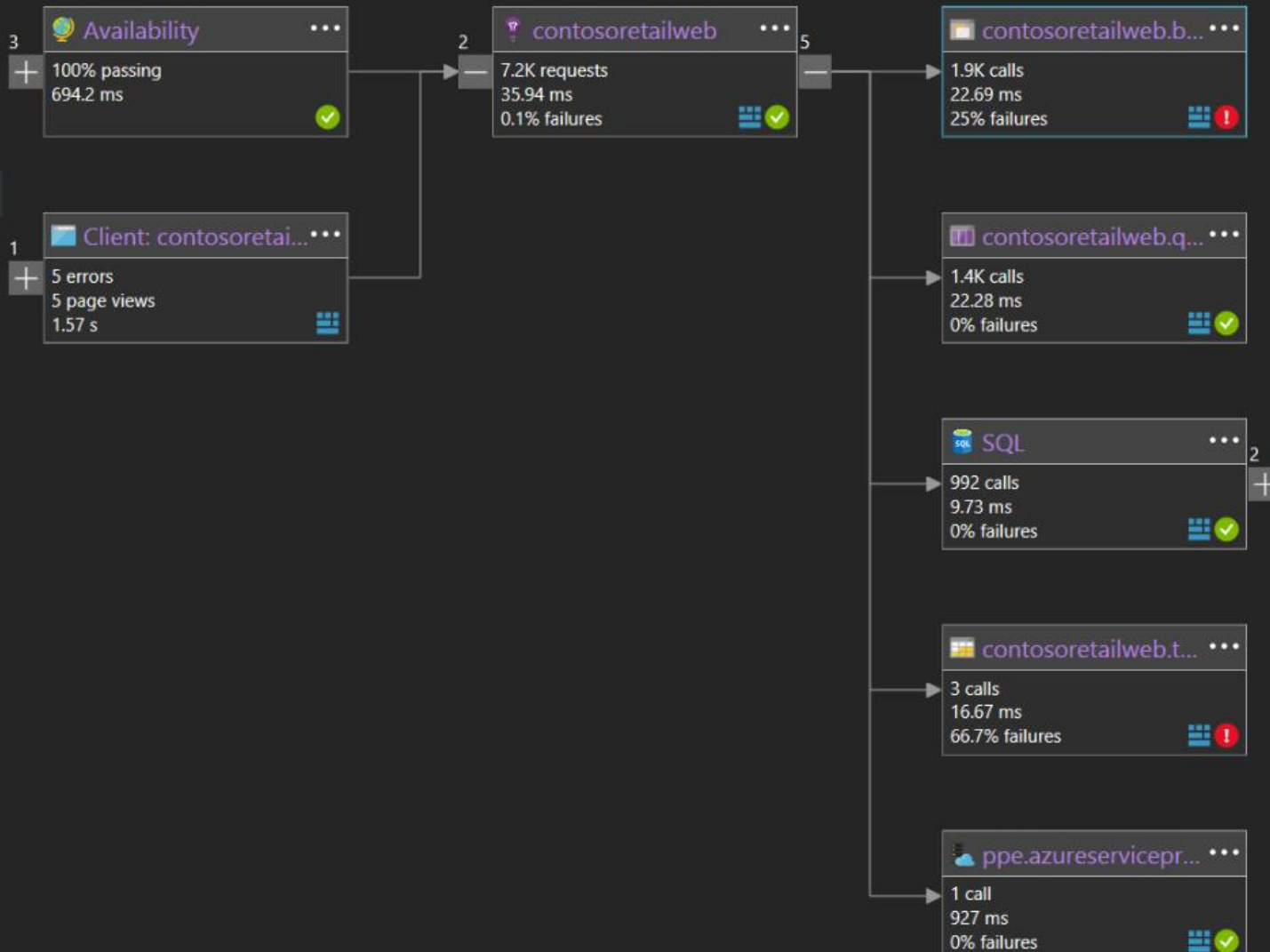
SLOWEST REQUESTS BY NAME

NAME	DURATION (AV...
POST ServiceTickets/Create	195.9 ms
GET Home/Index	123.3 ms
GET ServiceTickets/Index	106.9 ms

Investigate performance

Time range Filters Options Refresh Restore defaults Learn more

Warning thresholds: ✔ <5% ⚠ >=5% ❗ >=20% failed



contosoetailweb.blob.core.wi...  
AZURE BLOB

Top Errors [See all errors](#)

- GET Home/Index  
1 problem, 480 instances  
Failed Dependency: 409 480
- HEAD Home/Index  
1 problem, 1 instance  
Failed Dependency: 409 1



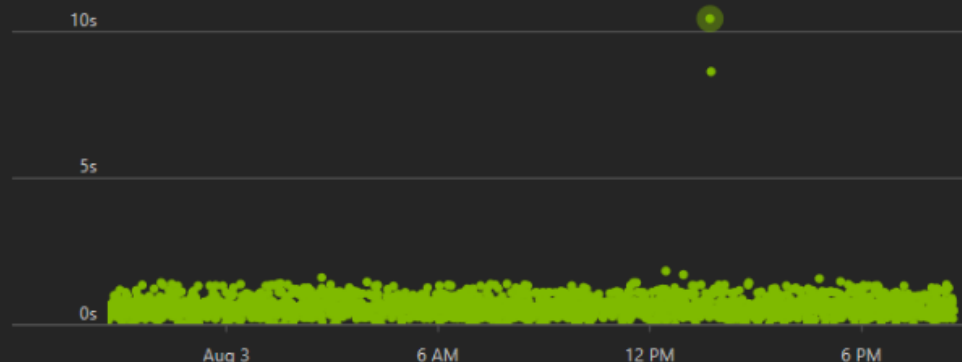
# Availability

+ Add test Time range Refresh Help

- view
- activity log
- access control (IAM)
- tags
- STATE
- application map
- Smart Detection
- Live Metrics Stream
- Metrics Explorer
- Search
- availability
- failures
- performance (preview)
- servers
- rowser
- PREVIEW)
- sers
- sessions
- vents

## Availability test summary

The chart shows a sample of the test results. To see more samples, select a shorter time range or select a specific availability test. To see all the results, use Search Explorer or an Analytics query. To see Availability metrics, use Metrics Explorer.



AVAILABILITY **100 %** AVERAGE TEST DURATION **694 ms** TOTAL SUCCESSFUL TESTS **5.6 k** TOTAL FAILED TESTS **0**

## All availability tests

TEST NAME	20 MIN	1 H	24 H	72 H
✓ Contoso Retail - Tickets View	100%	100%	100%	100%
✓ Contoso Retail - reports page	100%	100%	100%	100%
✓ Contoso RetailMain Site	100%	100%	100%	100%

< 1 / 1 >

## Availability test result

Open in Visual Studio + New Work Item View Work Items

## Properties

Name	contoso retail - reports page-contosoretailweb	...
Location	CH : Zurich	...
Timestamp	03/08/2017 13:42:00	...
Success	True	...
Duration	10.4 sec	...

## Results

We don't store all the successful results. We have retrieved a stored result that is close to the time you are looking for [ 03/08/2017 13:42:00 ].

REQUEST	STATUS	TOTAL TIME	REQUEST TIME
✓ ▶ http://contosoweb1.southcentralus....	200 OK	10.440 sec	9.820 sec

## Related Items

- Server side requests 9
- Server side exceptions 0
- Server side dependency calls 0
- Server side traces 9
- All telemetry available for this test 18
- All available telemetry 5 minutes before and after this test 217

# Performance View

Operations Dependencies

Operation response time



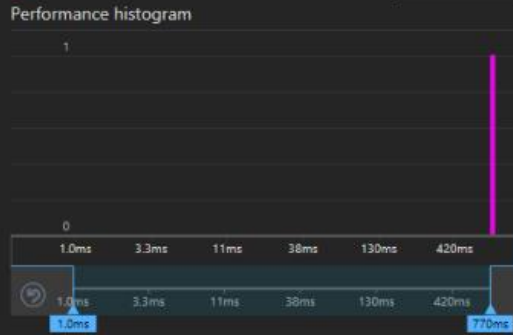
Request count



OPERATION NAME	DURATION (95 <sup>th</sup> )	COUNT	PIN
Overall	247 ms	7.20k	<input checked="" type="checkbox"/>
GET Customers/Index	953 ms	1	<input type="checkbox"/>
POST ServiceTickets/Create	825 ms	1	<input checked="" type="checkbox"/>
GET Home/Index	518 ms	481	<input type="checkbox"/>
GET ServiceTickets/Index	363 ms	477	<input type="checkbox"/>
GET ServiceTickets/Create	355 ms	1	<input type="checkbox"/>
GET Reports/Employees	295 ms	1	<input type="checkbox"/>
GET ServiceTickets/Schedule	268 ms	1	<input type="checkbox"/>
HEAD Home/Index	242 ms	1	<input type="checkbox"/>
GET ServiceTickets/Assign	161 ms	1	<input type="checkbox"/>
GET Reports/Tickets	78.0 ms	1	<input type="checkbox"/>
GET robots.txt/Index	66.4 ms	1	<input type="checkbox"/>
GET ServiceTickets/Details	45.1 ms	2	<input type="checkbox"/>
GET ServiceTickets/GetLogEntries	40.2 ms	1	<input type="checkbox"/>

View in Analytics Feedback Refresh

POST ServiceTickets/Create Scale



Histogram selected details

Event time	03/08/2017 02:43:13
Response code	302
Successful request	true
Response time	825 ms
Request URL	http://contoso1web1.southcentralus.cloudapp.azure.com/ServiceTickets/Create
Role instance	ContosoWeb1.ContosoRetail.com
Region	United States

Operation details 5

POST ServiceTickets/Create contoso1web1

View Session Timeline + New Work Item View Work Items

## POST ServiceTickets/Create

Event Time: 03/08/2017 02:43:13 1 of 1

### Request Properties

Event time	03/08/2017 02:43:13	...
Request name	POST ServiceTickets/Create	...
Response code	302	...
Successful request	true	...
Response time	825.26 ms	...
Request URL	http://contoso1web1.southcentralus.cloudapp.azure.com/ServiceTickets/Create	...
Client IP address	167.220.1.0	...
Device type	PC	...

### Custom Data

_MS.ProcessedByMe...	(Name: 'Requests', Ver: '1.0')	...
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### Calls to Remote Dependencies

View as timeline

TYPE	DEPENDENCY	DURATION	SUCCESS
SQL	tcp:consqhqytc4j6j6uibc2.database.windows.net,1433   Co...	2 ms	✓
SQL	tcp:consqhqytc4j6j6uibc2.database.windows.net,1433   Co...	6 ms	✓
SQL	tcp:consqhqytc4j6j6uibc2.database.windows.net,1433   Co...	1 ms	✓

### Related Items

All traces for this operation	1
Exceptions for this operation	0

# User Retention

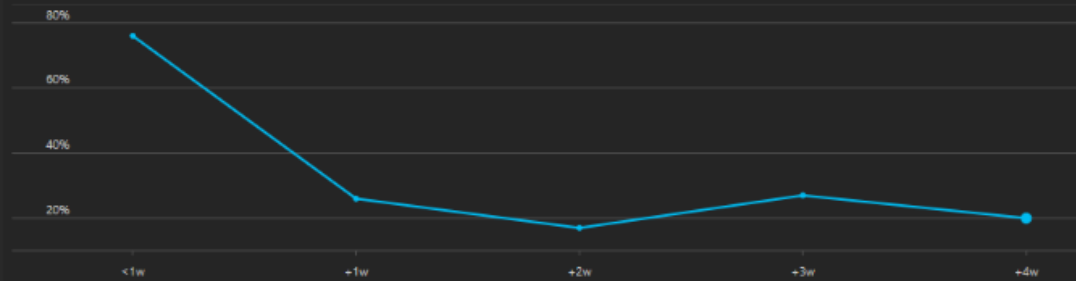
Share Help

Show users who used Any Event or Page View And then returned to use Any Event or Page View By weeks (over the last month)

Add filter

Overall Retention (Weeks Over Last Month)

Line Bar % #



Cohort	Users	...and returned after				
		<1w	+1w	+2w	+3w	+4w
Overall	13	76%	26%	17%	27%	20% *

Used on...	Cohort	Users	...and returned after				
			<1w	+1w	+2w	+3w	+4w
Jul 2 - Jul 8	5	5	80%	40%	20%	40%	20% *
Jul 9 - Jul 15	10	10	60%	10%	10%	20% *	
Jul 16 - Jul 22	3	3	100%	33%	33% *		
Jul 23 - Jul 29	1	1	100%	100% *			
Jul 30 - now	2	2	100% *				

100% - 82% 81% - 64% 63% - 46% 45% - 28% 27% - 10% \* Represents partial week

## Initiating Event (Top 5)

Home Page	12	<div style="width: 100%;"></div>
Create	7	<div style="width: 58%;"></div>
not_specified	7	<div style="width: 58%;"></div>
Details	7	<div style="width: 58%;"></div>
Schedule	7	<div style="width: 58%;"></div>

## Returned Event (Top 5)

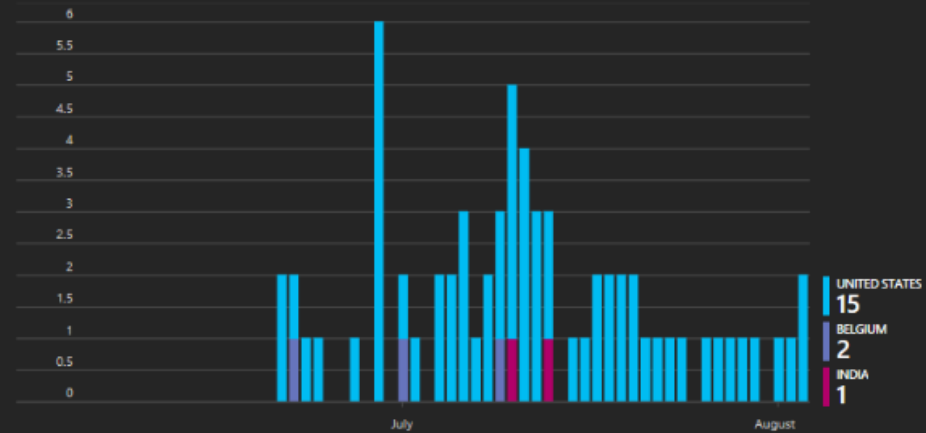
Home Page	8	<div style="width: 100%;"></div>
Create	7	<div style="width: 87.5%;"></div>
not_specified	7	<div style="width: 87.5%;"></div>
Details	7	<div style="width: 87.5%;"></div>
Schedule	7	<div style="width: 87.5%;"></div>

# User Analysis

New Open Save Save As Revert changes Refresh Save query as cohort Analytics Share Help

## 18 Unique Users

Bar Line Area



## Custom Events (Top 5)

Split by Event name

Clicked Create New Tic...	5	<div style="width: 100%;"></div>
Clicked Dashboard Tab	3	<div style="width: 60%;"></div>
Clicked My Tickets Butt...	3	<div style="width: 60%;"></div>
Clicked Reports Tab	2	<div style="width: 40%;"></div>
Clicked Tickets Tab	2	<div style="width: 40%;"></div>

## Page Views (Top 5)

Split by View page name

Home Page	17	<div style="width: 100%;"></div>
Details	8	<div style="width: 47%;"></div>
Schedule	7	<div style="width: 41%;"></div>
Create	7	<div style="width: 41%;"></div>
not_specified	7	<div style="width: 41%;"></div>

## Country or region (Top 5)

Split by Country or region

United States	15	<div style="width: 100%;"></div>
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## Insights

UNIQUE SESSIONS

49

View Sessions



EVENTS

426

View Events



## Sample of these users

USER ID	SESSIONS	EVENTS
ljOSm	13	165
ToyES	6	30
Mqdie	4	55
d+bSN	3	28
2Qajz	2	39

Tell a story using Workbooks

Track conversions via a Funnel

See if users return to your app in Retention

CUSTOM EVENTS

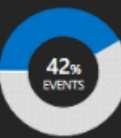
72

Browser version: Edge 15.15063

Country or region: United States

User id: ljOSm

Add these filters



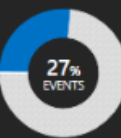
CUSTOM EVENTS

46

Country or region: United States

Event name: Customer Load

Add these filters



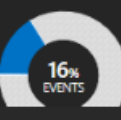
CUSTOM EVENTS

28

Browser version: Edge 15.15063

Country or region: United States

Event name: Clicked Create New Tic...



# Azure Monitor Pricing

## Log Data Ingestion

**Log Analytics** and **Application Insights** charge for data they ingest. There are two ways to pay for ingesting data: Pay-As-You-Go and Commitment Tiers. The Pay-As-You-Go pricing offers flexible pay-for-what-you-use pricing by simply charging for the volume of data ingested. With Commitment Tiers you are billed a fixed predictable fee starting at a 100 GB per day level. Data ingested above the Commitment Tier is billed at the same per-GB price as the current tier. Commitment Tiers provide you a discount on data ingestion based on your selected commitment tier. Commitment tiers have a 31-day commitment period ([learn more](#)). For Application Insights users, your resource must be [workspace-based](#) to leverage the Commitment Tiers. Some data types, including [Azure Activity Logs](#), are [free from data ingestion charges](#).

Pricing Tier	Price	Effective Per GB Price <sup>1</sup>	Savings Over Pay-As-You-Go
Pay-As-You-Go	<b>\$2.76</b> per GB (5 GB per <a href="#">billing account</a> per month included)	<b>\$2.76</b> per GB	N/A
100 GB per day	<b>\$235.20</b> per day	<b>\$2.36</b> per GB	15%
200 GB per day	<b>\$441.60</b> per day	<b>\$2.21</b> per GB	20%
300 GB per day	<b>\$648</b> per day	<b>\$2.16</b> per GB	22%
400 GB per day	<b>\$844.80</b> per day	<b>\$2.12</b> per GB	23%
500 GB per day	<b>\$1,038</b> per day	<b>\$2.08</b> per GB	25%
1,000 GB per day	<b>\$2,040</b> per day	<b>\$2.04</b> per GB	26%
2,000 GB per day	<b>\$3,984</b> per day	<b>\$2.00</b> per GB	28%

## Log Data Retention

Data ingested into your **Log Analytics** workspace can be retained at no charge for up to first 31 days (or 90 days if Azure Sentinel is enabled on the workspace). Data ingested into either classic or workspace-based **Application Insights** is retained for 90 days without any charge.

Data retained beyond these no-charge periods will be charged for each GB of data retained for a month (pro-rated daily).

Feature	Days of Included Retention	Price
Data Retention	31 days (or 90 days if Sentinel is enabled), and 90 days for Application Insights data	\$0.12 per GB per month

## Log Data Export

[Log Analytics Data Export](#) offers continuous streaming export of logs from your Log Analytics workspace to destinations such as Azure Storage and Event Hub. You are billed per GB of data exported from the Log Analytics Workspace. Exporting data via Diagnostic Settings is covered below in the Platform Logs section of this page.

Billing for the Log Analytics Data Export feature is not yet enabled. Advance notice will be provided before billing starts.

Feature	Price
Log Analytics Data Export	\$0.12 per GB <sup>1</sup>

<sup>1</sup>The size of data exported by Log Analytics Data Export is the number of bytes in the exported JSON formatted data. 1 GB = 10<sup>9</sup> bytes.

## Web Tests

Application Insights has [URL Ping tests](#) and [Multi-step web tests](#) which enable you to verify the availability of your application.

Feature	Price
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## Notifications

Notifications are sent based on when an Alert rule triggers. You are billed based on the type and number of notifications you choose to send.

Feature	Free units included	Price
ITSM connector create or update event	1,000 events per month	\$5/1,000 events
Emails	1,000 emails per month	\$2/100,000 emails
Push notification (to Azure Mobile App)	1,000 notifications per month	\$2/100,000 notifications
Secure web hooks	1 secure web hook	\$6/1,000,000 secure web hooks
Web hooks	100,000 web hooks per month	\$0.60/1,000,000 web hooks

## We Look Forward to Partnering With You...

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