

# CP4I Workshop

## Asset Repository and Tracing

—  
Developer Advocacy

# Contents

- Asset Repository Introduction
- Managing Asset
- Access Control
- Tracing Introduction
- Features
- Supported capabilities



# Asset Repository



Store



Manage



retrieve



search

# Managing Assets

## Asset repository

Upload progress

Browse Assets

Remotes

Access Control

Search Assets

Q Search for assets, tags, types or owners...

Designer API Implementation ::

[Car Insurance Cognitive API Lab Short](#)

Version: 1.0.0



Owner: CP4I Demo Assets

Modified: 18 days ago

Designer API Implementation ::

[Car Insurance Cognitive API Lab](#)

Version: 1.0.0

Owner: CP4I Demo Assets

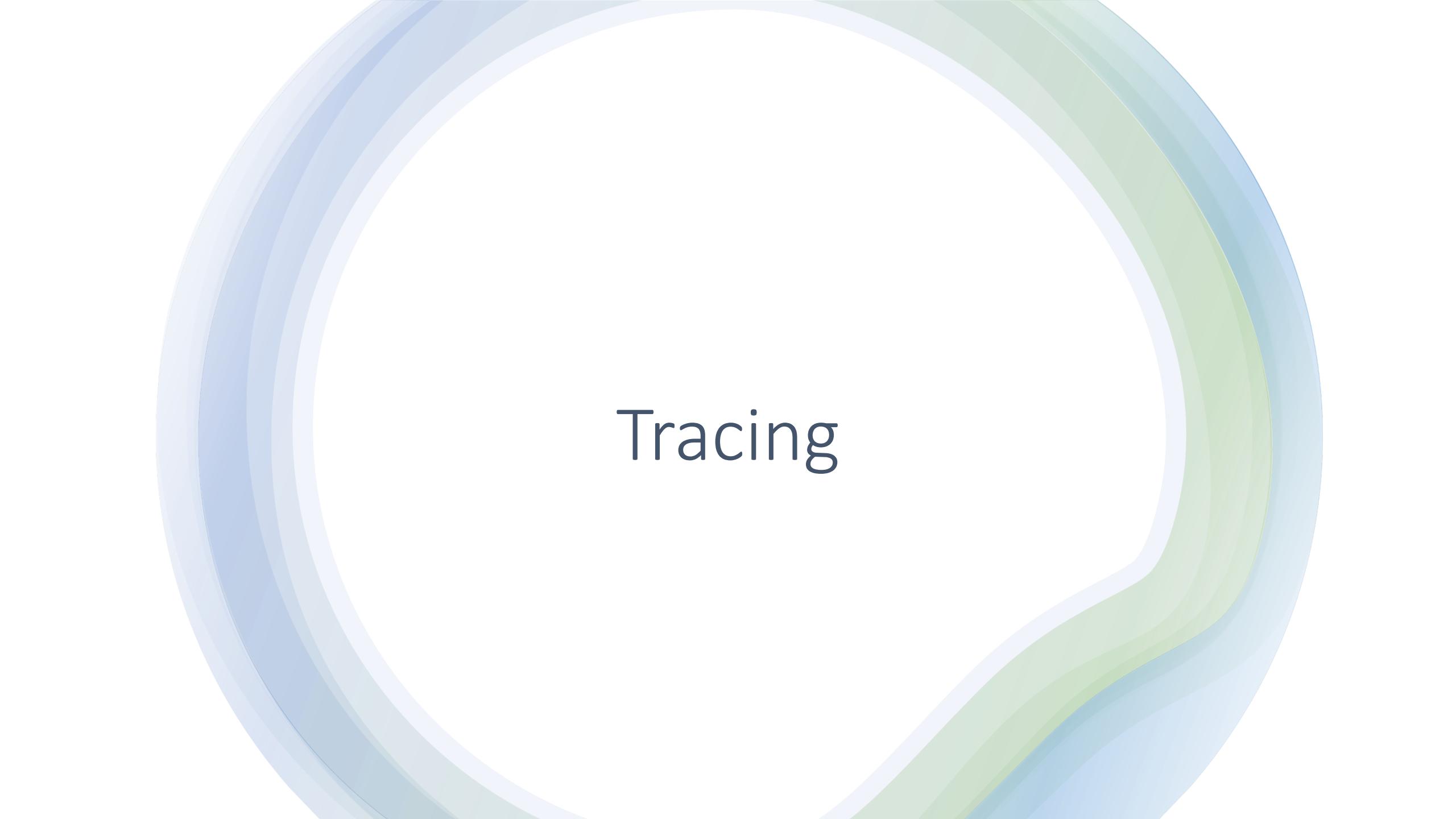
Modified: 18 days ago

Showing 2 of 2 assets

Add assets +

# Remote Assets

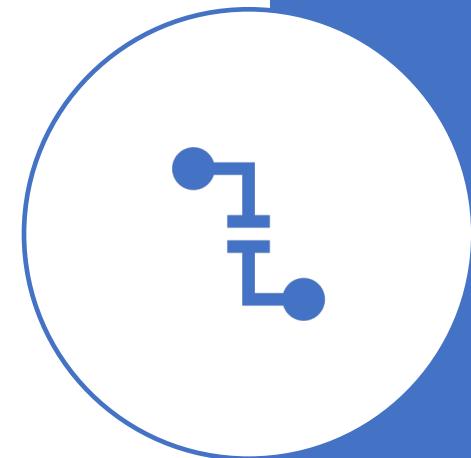
Name*	Description
CP4I Demo Assets	Remote that populates the asset repository with assets for CP4I demos
<b>Remote details</b>	
Git URL*	Automatic sync options*
<a href="https://github.com/IBM/cp4i-demos.git">https://github.com/IBM/cp4i-demos.git</a>	Every 5 minutes ▾
Branch*	Asset types*
master	<input checked="" type="checkbox"/> Designer API Implementation <input checked="" type="checkbox"/> JSON schema <input checked="" type="checkbox"/> Open API specification
<input type="checkbox"/> Use SSH authentication	



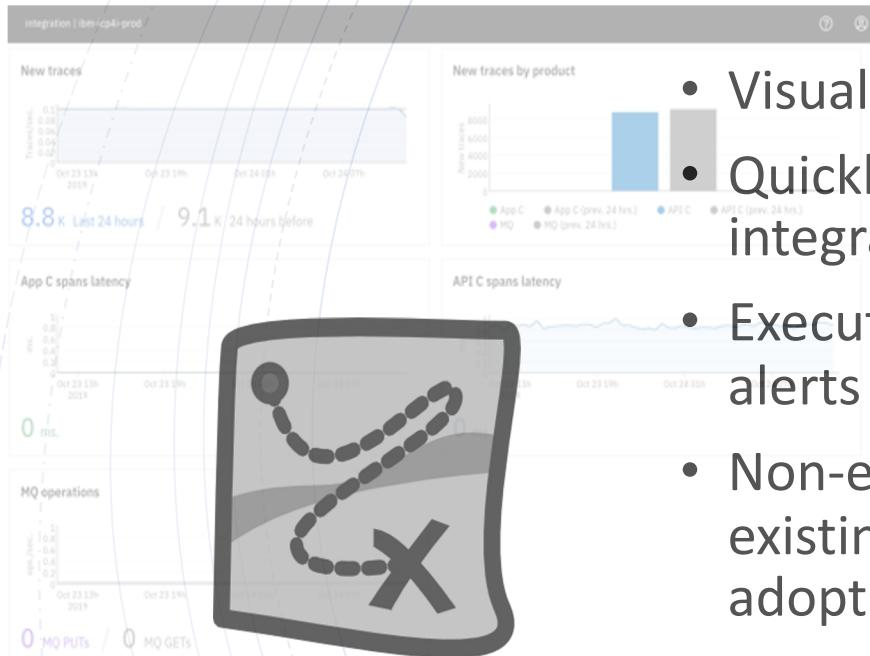
Tracing

# Tracing

- CP4I Operations Dashboard Add-on provides cross-component transaction tracing to allow troubleshooting and investigating errors and latency issues across integration capabilities to ensure applications meet service level agreements



# Features



- Visually follow the journey of distributed transactions
- Quickly understand latencies and errors across integration capabilities
- Execute and schedule reports and define proactive alerts to quickly respond to issues.
- Non-evasive with zero code change to be used with existing integration code and allow for fastest adoption.

# Why Operations Dashboard ?



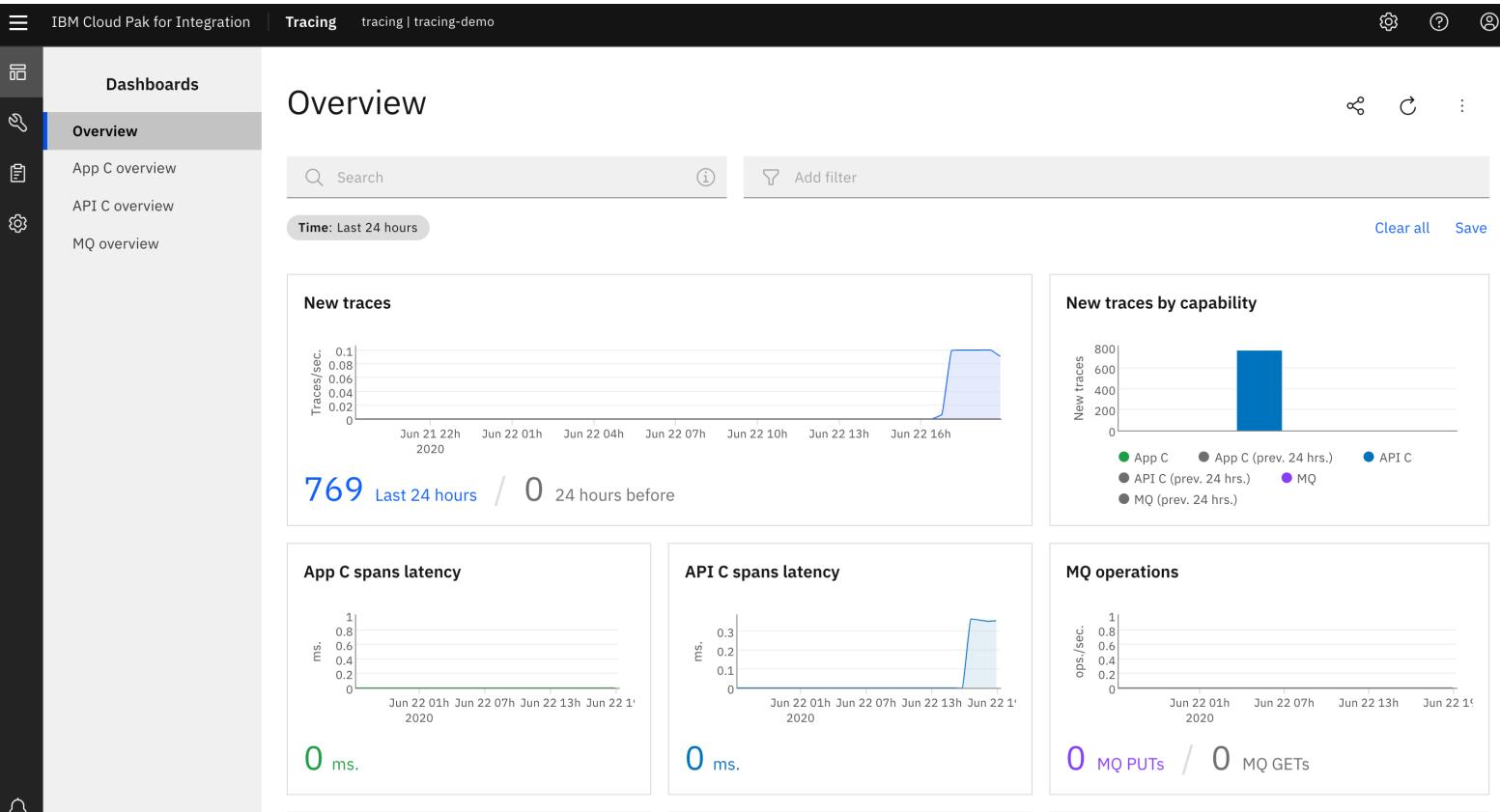
- **Address the infrastructure pain points** of Administrators and Operational teams that need to maintain resiliency and operational efficiency across the Cloud Pak for Integration platform
- **Specialized tool to uniquely** interpret and visualize the runtime execution of Integration flows, enabling clients to find patterns of common problems
- **Enable tracing** selectively, using non-evasive techniques without modifying existing applications



# Supported capabilities

- **App Connect (ACE)**
  - HTTP, SOAP, MQ and Kafka nodes are supported.
- **API Connect**
  - APIs using API Gateway are supported.
  - APIs using v5 Compatible Gateway are not supported.
- **MQ**
  - MQ messages that include an MQRFH2 header or message properties are supported.
  - MQ client connection is supported, binding mode is not supported.
- **External applications**
  - Applications deployed inside the Cloud Pak for Integration cluster can push trace data into the Operations Dashboard runtime (requires code changes to the application).

# Dashboards



- The Operations Dashboard Web Console includes several dashboards that are automatically generated.

## • **Overview Dashboard**

- Use this dashboard to view tracing data from the entire IBM Cloud Pak for Integration platform.

## • **App C overview dashboard**

- Use this dashboard to view App Connect (ACE) tracing data

## • **API C overview dashboard**

- Use this dashboard to view API Connect tracing data.

## • **MQ overview dashboard**

- Use this dashboard to view MQ tracing data.

## • **External app overview dashboard**

- Use this dashboard to view external applications tracing data

# Web UI Components - Reports

- The **Reports** page lists all the available reports and allows to create new reports, or to execute, edit, delete and duplicate existing reports.

Name	Description	Scheduling	Execute	Edit	Duplicate	Delete
API C - span count by API name and version	API C span count grouped by API name and version	N/A	Execute	Edit	Duplicate	Delete
App C - span count by flow name	App C span count grouped by flow name	N/A	Execute	Edit	Duplicate	Delete
MQ - span count by Q name and operation	MQ span count grouped by queue name and operation	N/A	Execute	Edit	Duplicate	Delete
New traces count by operation	New traces count grouped by root span operation	N/A	Execute	Edit	Duplicate	Delete

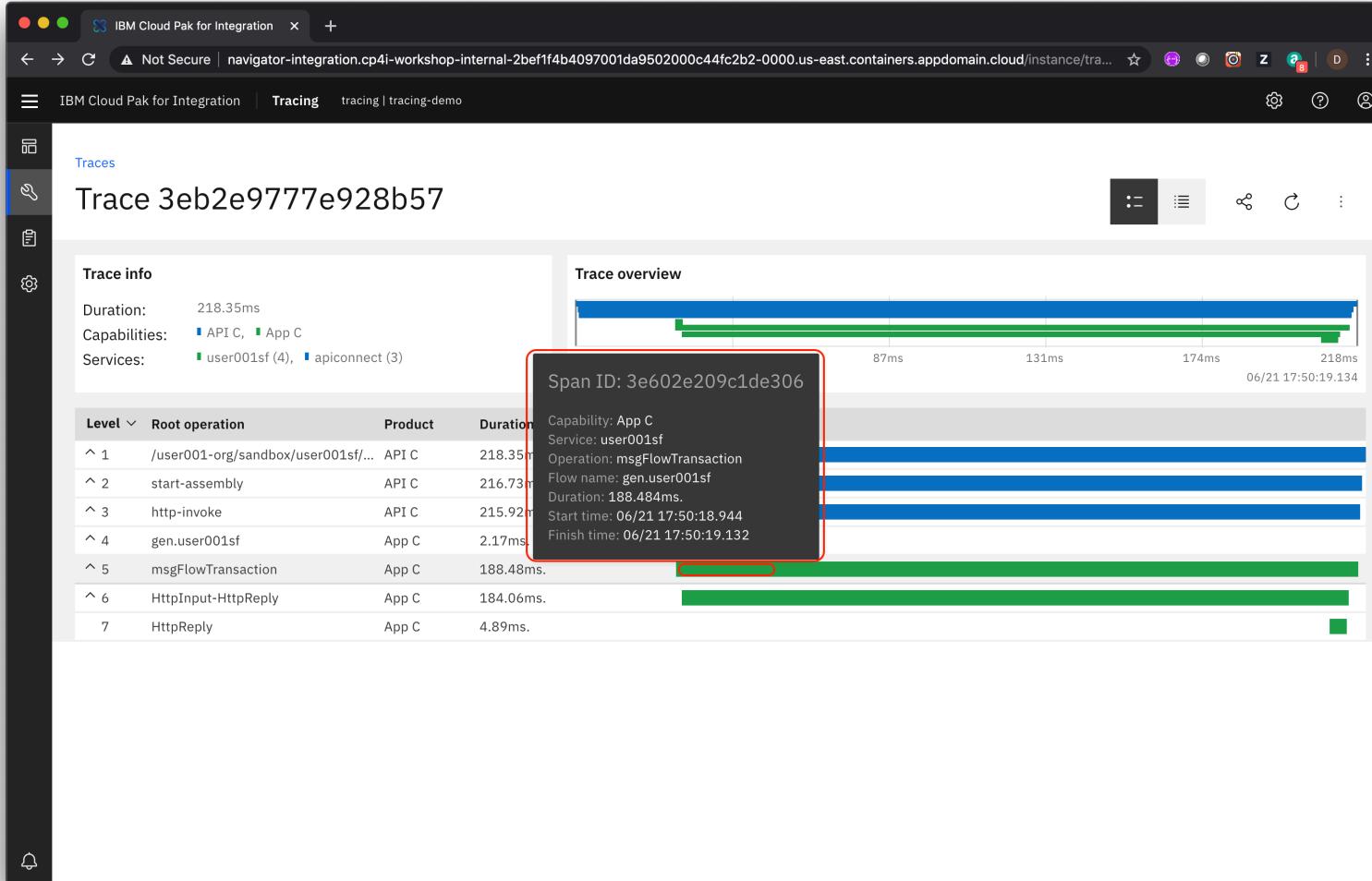
# Web UI Components - Alerts

- The **Alerts** page lists all the available alerts and allows to create new alerts, or to test, edit, delete and duplicate existing alerts.

The screenshot shows a web-based interface for managing alerts. On the left, a sidebar menu includes 'Reports / Alerts' (with 'Reports' and 'Reports history' options), 'Alerts' (which is selected and highlighted in blue), and 'Alerts history'. The main content area is titled 'Alerts' and contains a table with one row. The table columns are 'Enabled', 'Name', 'Description', 'Scheduling', and actions ('Test', 'Edit', 'Duplicate', 'Delete'). The single alert listed is 'Span Latency', which is enabled, has a description of 'Alert on App C and API C spans with duration over X microseconds', and is scheduled to run 'Every 10 minutes at second 00, every day'. There are also 'Add new alert' and a download icon ('.csv') in the top right corner of the main area.

Enabled	Name	Description	Scheduling	Test	Edit	Duplicate	Delete
✓	Span Latency	Alert on App C and API C spans with duration over X microseconds	Every 10 minutes at second 00, every day				

# Web UI Components - Traces



- A trace includes a summary and
- a table is displayed showing all
- the spans that belong to the
- trace ordered in hierarchical
- manner

# Limitation

- Trace data cannot be collected from integration products deployed outside of the IBM Cloud Pak for Integration platform
- Trace data generated by CP4I capabilities cannot be exported or used outside of CP4I Dashboard
- Spans are available for a limited duration based

