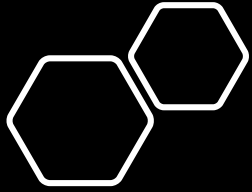


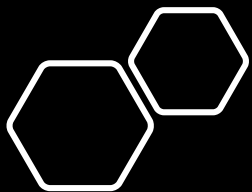
Integrate *Azure* *DevOps* Pipelines in ALM Octane





Build automation: CI server integrations

Pipelines in ALM Octane represent the jobs or steps that run on your CI server. ALM Octane incorporates data from your pipelines into your application delivery process, helping you analyze quality, progress, change impact, code coverage and more.



Overview



Pre-requisites need to run the CI Plugin integration



Download Azure DevOps CI Integration Plugin



Install and Configure Azure DevOps CI Integration Plugin



View Pipeline Insights in ALM Octane



Administer ALM Octane CI Plugin for Azure DevOps

Pre-requisites

OCT

SETTINGS

SPACES



Type to search



 MF DACH Presales_835370598

Azure DevOps

Customer Relationship Management

default_workspace

Demo

MF DACH Presales_835370598

ENTITIES

LISTS

RELEASES

CALENDARS

CREDENTIALS

ENTITY LAB

 API access



 Revoke access

 Regenerate access

More 



ID

Active

Name

Integra

 14001



AzureDevOps

3rd-pa

Pre-requisites

Obtain an API key for ALM Octane CI Integration from your ALM Octane Space Admin.

Collections

D DefaultCollection

User settings

General

Notifications

Security

Personal access tokens

Personal access tokens can be used instead of a password to allow applications outside the browser access to

Your tokens are like passwords. Keep them secret.

[Add](#) [Revoke All](#) [Show Revoked Tokens](#)

| Description | Expiration | Status ↑ | Actions |
|-------------|-----------------------|----------|---------|
| UFTOne | 6/21/2020 8:54:10 AM | Active | × |
| ALMOctaneCI | 6/21/2020 10:20:43 AM | Active | × |

Pre-requisites

Generate Personal Access Token (PAT) on
Azure DevOps Server.

PAT (Personal access token)

The token should be configured by TFS admin (see PAT). PAT minimal permission set should contain :

- Build (read and execute)
- Code (read)
- Project and team (read)
- Test management (read)

Download & Configure the Plugin

Releases

Tags

Latest release

v1.4

d193d96

Compare ▼

v1.4 for Azure DevOps 2019



radislavB released this 25 days ago · 1 commit to master since this release

support for Azure DevOps server 2019
Added option to configure proxy

▼ Assets 3



ALMOctane-AzureDevOps-Plugin-1.4-2019-setup.zip

4.21 MB

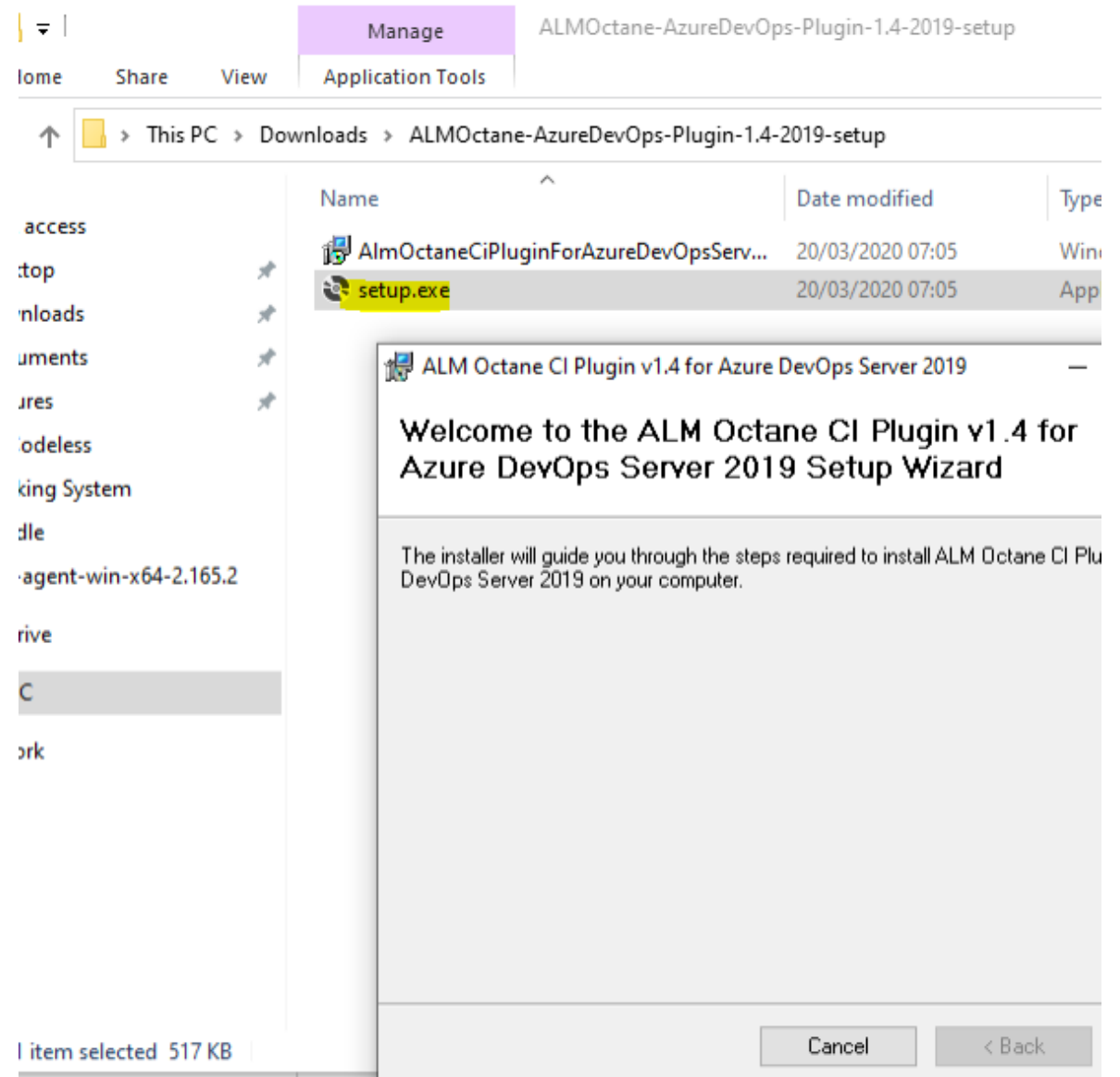


Source code (zip)

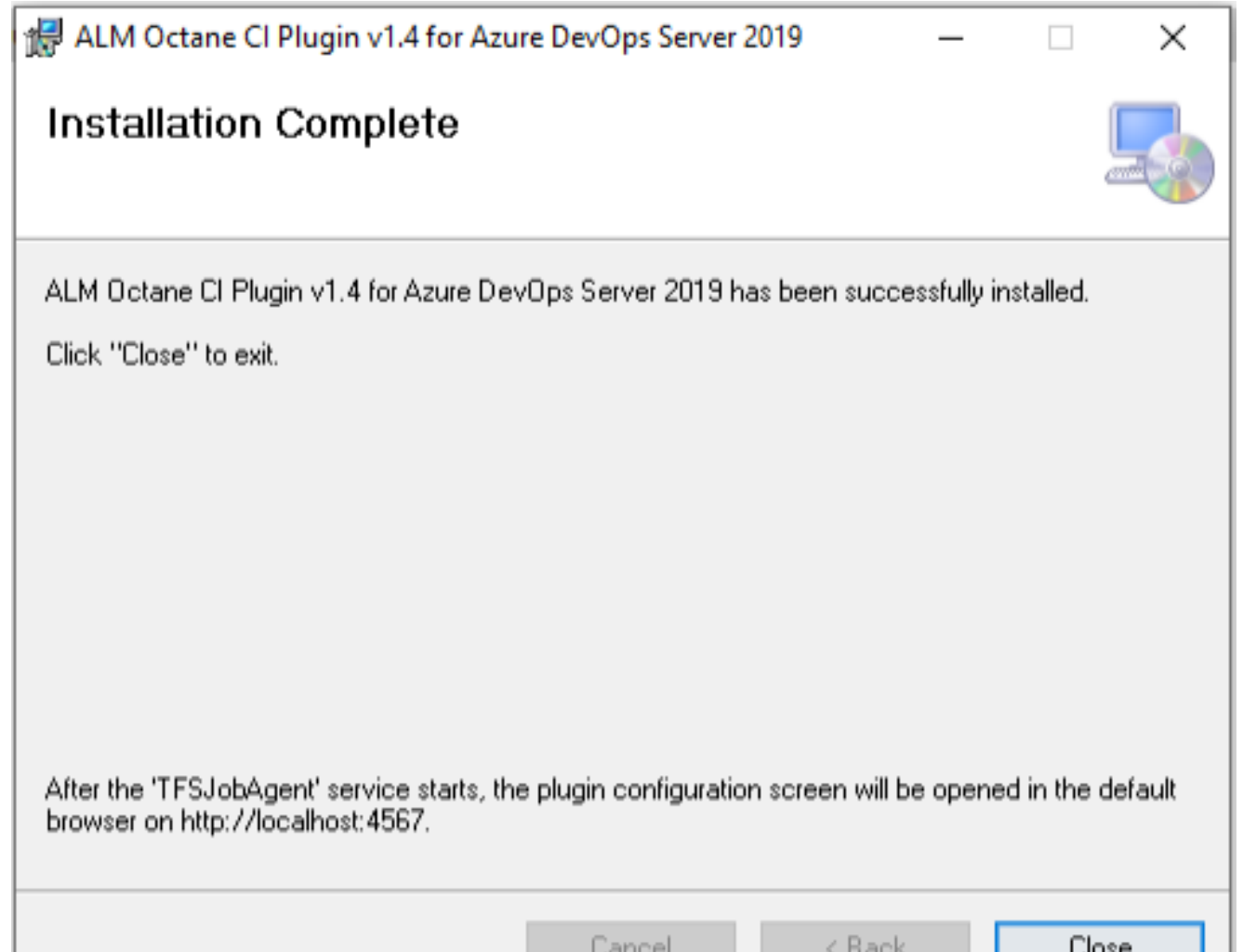
Download Azure
DevOps

Use the github download link to download the CI Plugin for ALM Octane:
<https://github.com/MicroFocus/octane-tfs-plugin/releases>

Extract the downloaded zip file and run setup.exe and follow the instructions on the screen.



Wait until
Installation is
completed





ALM Octane CI plugin for Azure DevOps Server - Configuration



ALM Octane Location



ALM Octane Client ID



ALM Octane Client Secret



Azure DevOps Server Location



Azure DevOps Server PAT (Personal Access Token)



Instance ID



Test Connection

Save

The service is installed on port 4567. After installation the service is stopped by default.

Once installation is done, ALM Octane CI Plugin need to be configured.



ALM Octane CI plugin for Azure DevOps Server - Configuration

| | | |
|---|--|---|
| ALM Octane Location | <input type="text" value="https://almoctane-portal.azure.com/?p=146008/4001"/> | ? |
| ALM Octane Client ID | <input type="text" value="demo_02111111-0700-0000-5001"/> | ? |
| ALM Octane Client Secret | <input type="password" value="....."/> | ? |
| Azure DevOps Server Location | <input type="text" value="http://[redacted]khan:8082"/> | ? |
| Azure DevOps Server PAT (Personal Access Token) | <input type="password" value="....."/> | ? |
| Instance ID | <input type="text" value="b2e2bcc5-897d-41e1-b76d-822fed28d4d4"/> | ? |

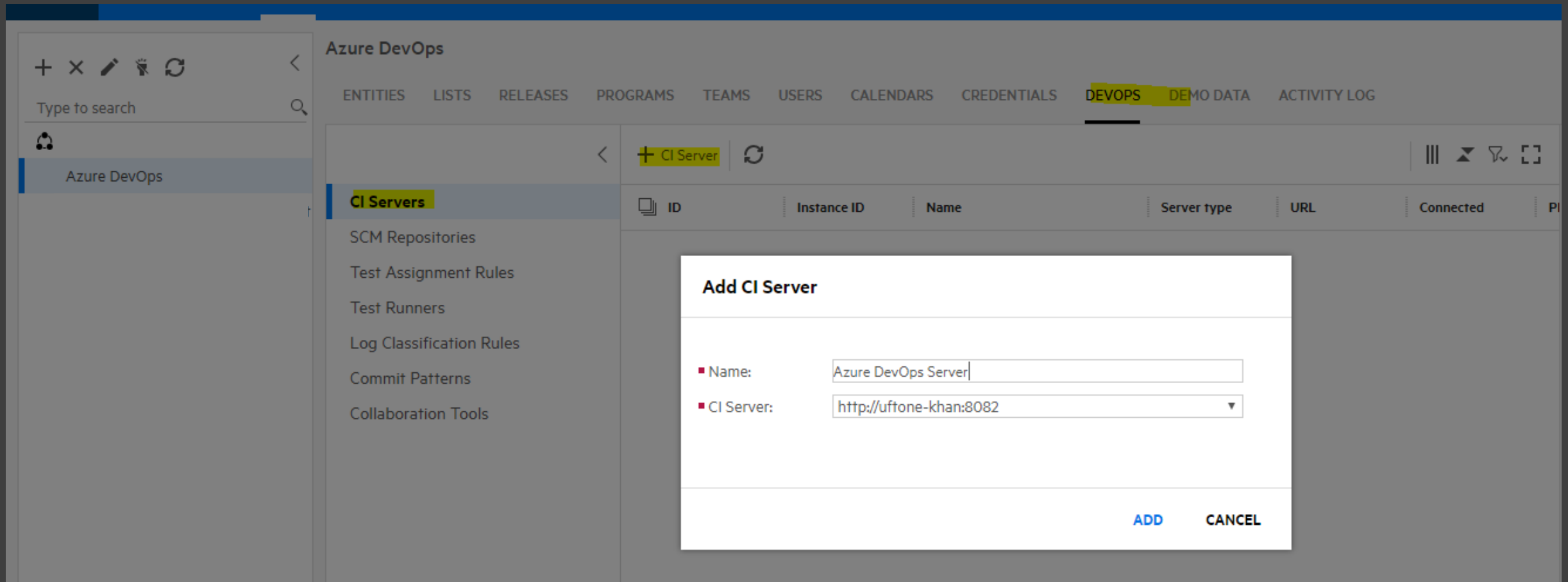
Configuration validated successfully

Test Connection

Save

After setting all
parameters, click on **Test
Connection** to validate


Set configuration parameters
correctly



Check CI Servers in
ALM Octane

After a successful connection *Azure DevOps Server* should be visible under
DevOps > CI Servers > Add CI Server in **ALM Octane**.

[+ CI Server](#) [Refresh](#) [Copy Link](#) [Delete](#)

| ID | Instance ID | Name | Server type | URL | Connected | Plugin Version |
|---|--------------------------------------|---------------------|-------------|-------------------------|---|----------------|
| <input checked="" type="checkbox"/> 19001 | b2e2bcc5-897d-41e1-b76d-822fed28d4d4 | Azure DevOps Server | TFS | http://uftone-khan:8082 |  | 1.4.0.0 |

Once CI Server is added in ALM Octane, it should appear „online“ | Add CI Server in ALM Octane

Add Pipeline

Pipeline should be available in ALM Octane for selection.

OCT

PIPELINES

PIPELINES

LIVE SUMMARY

+ ↺ 📄 | ▼ 🔍 ☐

Add Pipeline

×

Select a job for the root of the pipeline that you want to track in ALM Octane. ALM Octane collects pipeline run results: builds, test runs, commit information, and more.

CI Server

■ Name:

Azure DevOps Server

ⓘ

■ Job:

AzureDevOps-CI

AzureDevOps-CI ▼

■ Pipeline name:

AzureDevOps-CI

📋

Release:

Milestone:

Type:

☐ Notify committers upon run failure

☐ Notify test owners if their tests fail

Purging policy

☐ Override space purging policy

☐ Keep last 30000 runs

☐ Keep last 728 days

☒ Disable

SAVE

CANCEL

View Pipeline Insights in
ALM Octane

OCT PIPELINES PIPELINES LIVE SUMMARY

Azure DevOps

AzureDevOps-CI
Run #4 20s

AzureDevOps-CI | #3

OVERVIEW BUILDS TESTS LOGS

There is 1 new run in this pipeline.

PIPELINE ISSUE SUMMARY

No issues are available.

FAILED TEST RUNS

Azure DevOps

DefaultCollection / AzureDevOps / Pipelines / Builds

AzureDevOps

#4: Change e288395

Manually run just now by khamamir
<https://github.com/a1m0ctane/almdev> master e288395

Logs Summary Tests

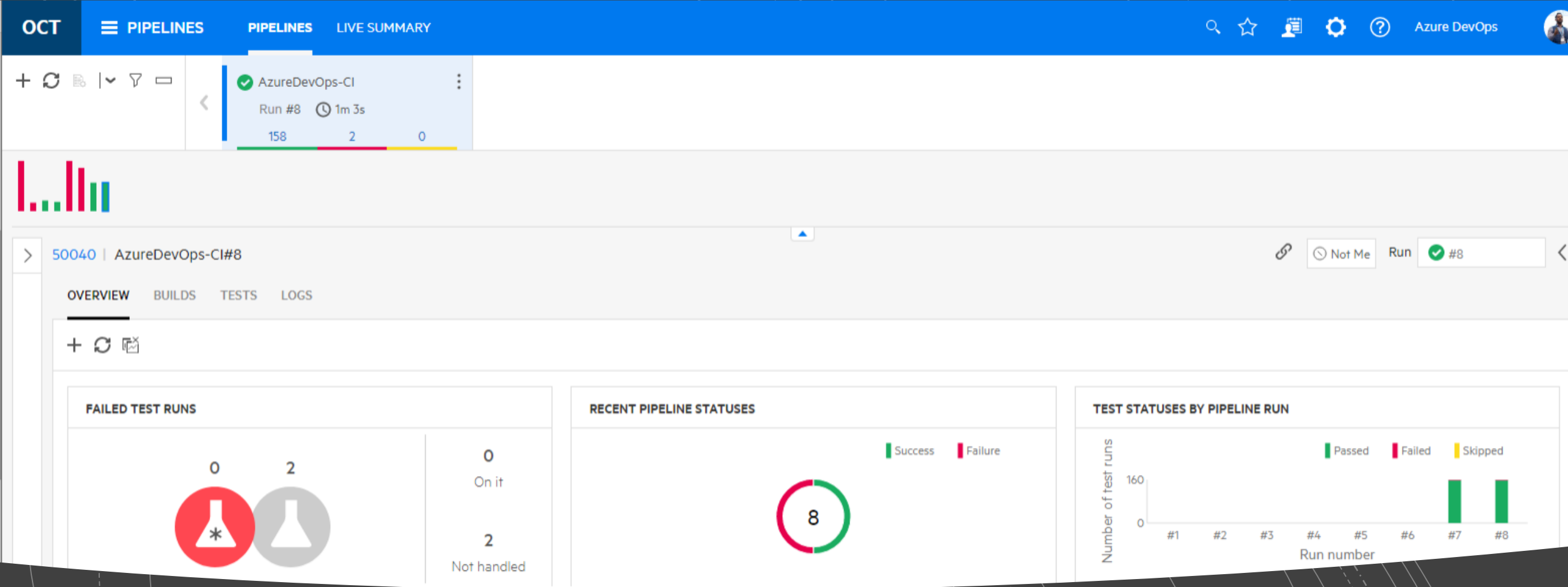
Agent job 1 Job

Pool: Default · Agent: CI-Agent-Octane

- Prepare job · succeeded
- Initialize job · succeeded
- Checkout · succeeded
- Post-job: Checkout · succeeded

Pipeline Integration
completed

After the pipeline is added in ALM Octane, you can now run pipeline from Azure DevOps / TFS or directly from ALM Octane.



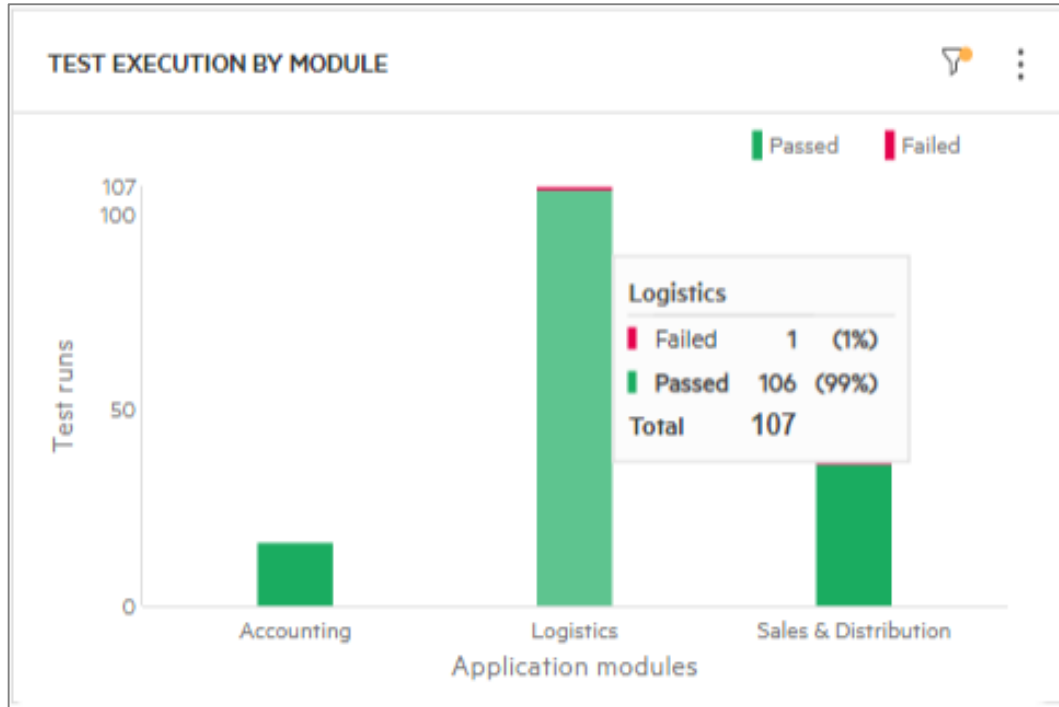
Pipeline Insights are
captured into ALM
Octane

After Build Execution is completed, you can see the build status and test execution support of that specific build execution run from Azure DevOps.

The screenshot displays the ALM Octane interface. At the top, there's a blue header with 'OCT' and 'PIPELINES' tabs. Below this, a sidebar on the left contains a list of items, including 'AzureDevOps-CI'. A dropdown menu is open for 'Run #8', showing options like 'View', 'Run', and 'View in CI Server' (which is highlighted in yellow). The main area shows the 'Azure DevOps' interface with a sidebar on the left listing various components like Overview, Boards, Repos, Pipelines, Builds, Releases, Library, Task groups, Deployment groups, and Test Plans. The main content area displays the details of a build run, including the commit hash 'e288395' and a list of tasks that have succeeded: Prepare job, Initialize job, Checkout, Maven Build, Publish Test Results, and Post-job: Checkout.

Go to Azure DevOps
CI Server

From ALM Octane „View in CI Server“ you can directly jump to the corresponding build execution in Azure DevOps.



APPLICATION MODULES WITH FAILED TEST RUNS

| | | |
|----------------------|------------------------|-------|
| Sales & Distribution | <div><div></div></div> | 1/37 |
| Logistics | <div><div></div></div> | 1/107 |

Quality Dashboard by Pipeline Test Runs

Administer Azure DevOps CI Plugin






Status Summary

| | |
|-------------------------------|-----------------|
| Plugin status : | Connected |
| Plugin version : | 1.4.0.0 |
| Azure DevOps Server version : | AzureDevOps2019 |



Queues

| | |
|-----------------------------|---|
| General events queue size : | 0 |
| SCM events queue size : | 0 |
| Test results queue size : | 0 |








Links

-  Configuration
-  Proxy settings
-  Logs

Actions

-  Start Plugin
-  Stop Plugin



-  Application log
-  TFS REST call log
-  TFS test result log
-  ALM Octane test result log
-  ALM Octane task polling log
-  Setup log
-  Download all

Logs available for the CI Plugin |

What **ALM Octane** can do for your
Organization by Integrating *Azure
DevOps* or any other Agile Project
Management (*Jira, CA Rally*, etc.) Tool?

Optimize Value Streams

Test Strategy



Risk Management



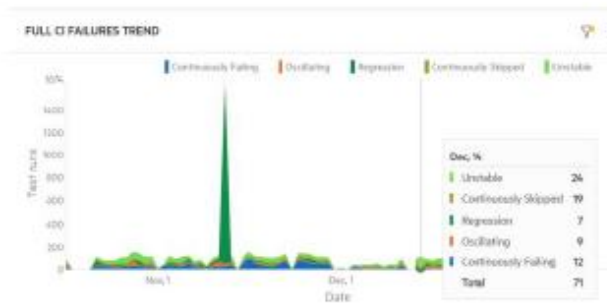
Release Management



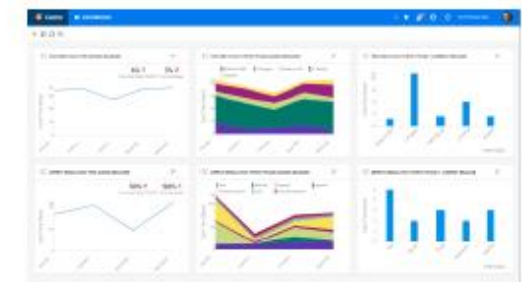
Agile Management



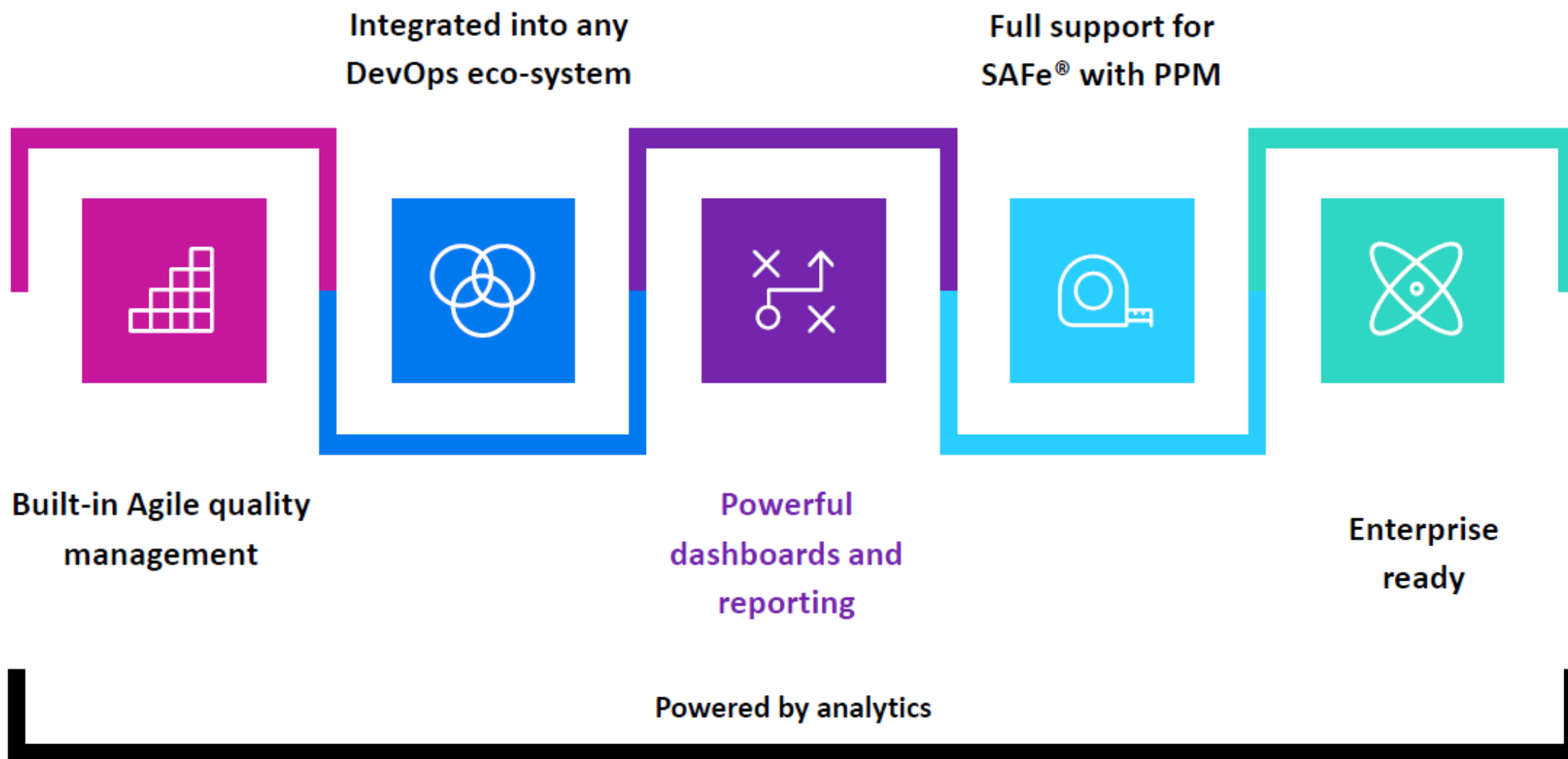
DevOps Optimization



Governance



ALM Octane Value Points



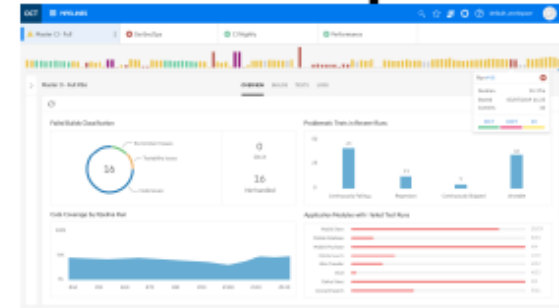
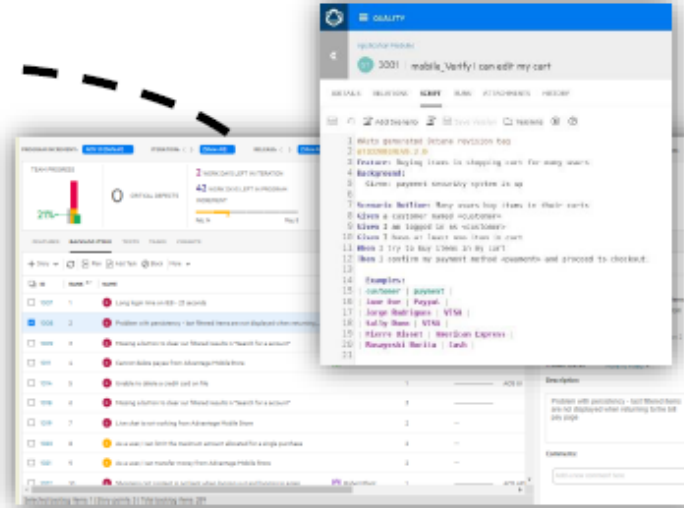
Put Quality at the Core

“Agile testing and continuous quality approaches remain challenging to adopt and continue to present a significant bottleneck for DevOps and continuous deployment (CD)” - IDC 2019

Increase
Dev-Test
Collaboration

Increase
test automation
ROI

Increase System
Quality – Ensure
value delivery



Propagate & Consolidate Backlog Information from other Agile Project Management Tools

Unleash the Power of ALM Octane

The screenshot displays the ALM Octane interface for a project named '6003 | APAC CI PACMAN Development'. The top navigation bar includes the 'OCT' logo, a 'BACKLOG' menu, and various utility icons. Below the navigation bar, there are filters for 'Release' (including 'No Release', '2019 Q1 Release Tr...', '2019 Q2 Release Tr...', '2019 Q3 Release Tr...', 'CRM2020', and 'Overall Release') and 'OBJECTIVES'. The main content area shows a list of features with tabs for 'OVERVIEW', 'DETAILS', 'FEATURES', 'BACKLOG ITEMS', and 'TESTS'. The 'FEATURES' tab is active, showing a list of features with their status, progress, and associated team members. A dropdown menu is open for the '7006 Advantage Mobile Store Search' feature, showing details like 'Done story point', 'Remaining story points', 'Feature estimation', 'User Stories', and 'Defects'. The bottom of the interface shows 'Total features: 5' and a link to 'Show also indirect features'.

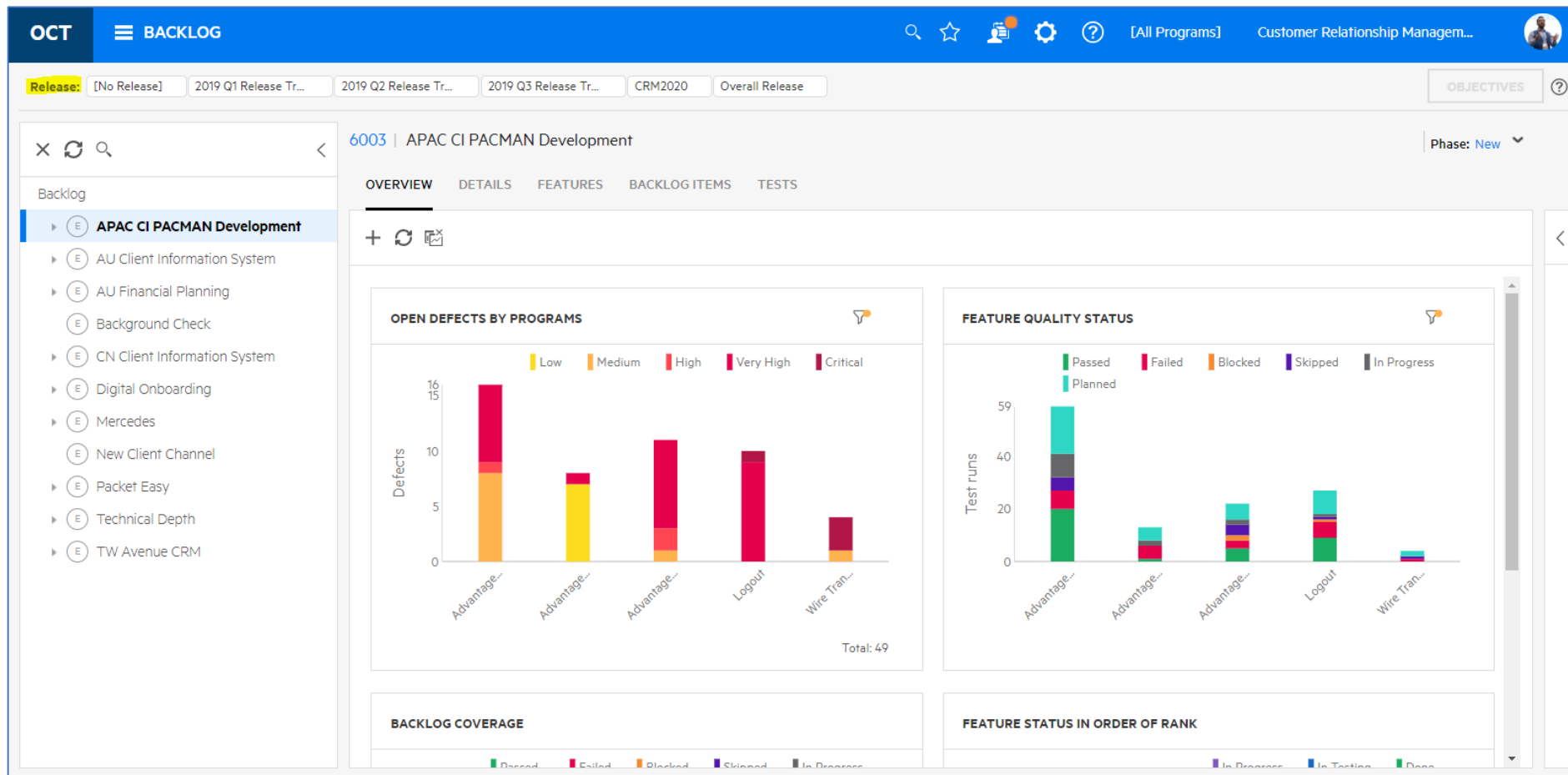
| Feature ID | Feature Name | Category | Status | Commits | Progress | Act. SP | Team | Last Runs |
|------------|---------------------------------|--------------|-------------|---------|----------|---------|-----------------|-----------|
| 7005 | Advantage Mobile Store Database | Business | In Testing | 14 | 36% | 84 | Thomas Koepp... | 23 tests |
| 7008 | Advantage Mobile Store Purchase | Business | In Testing | 5 | 80% | 37 | Amir Khan | 5 tests |
| 7006 | Advantage Mobile Store Search | Architecture | In Progress | 8 | 13% | 59 | Amir Khan | 8 tests |
| 7007 | Logout | Business | In Progress | | | | Joel Flueckiger | 10 tests |
| 7009 | Wire Transfer | Business | In Testing | | | | Amir Khan | 2 tests |

Total features: 5

Show also indirect features

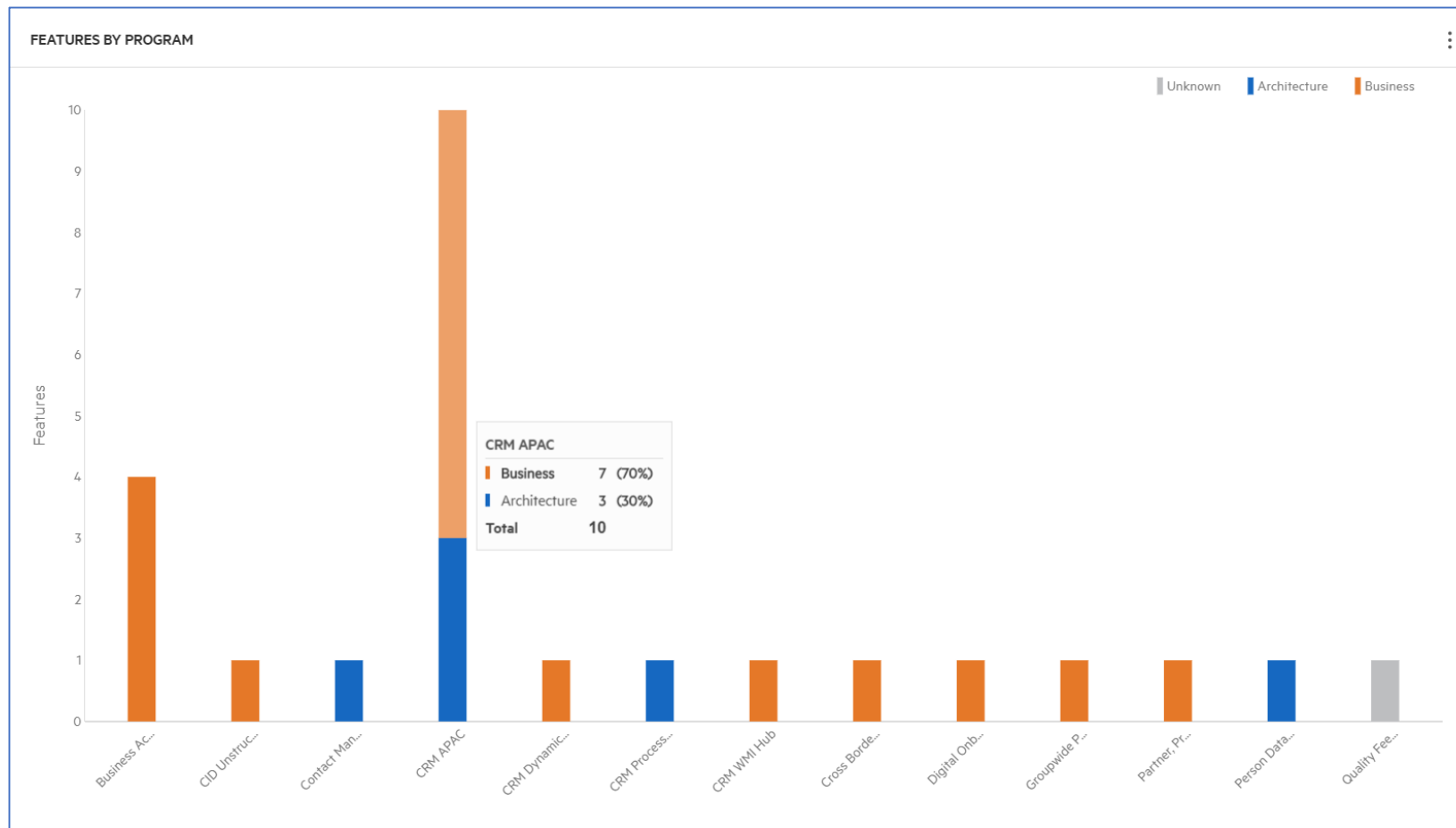
Apply SAFe Methodology to synchronized Backlog Items from different Tools

Unleash the Power of ALM Octane



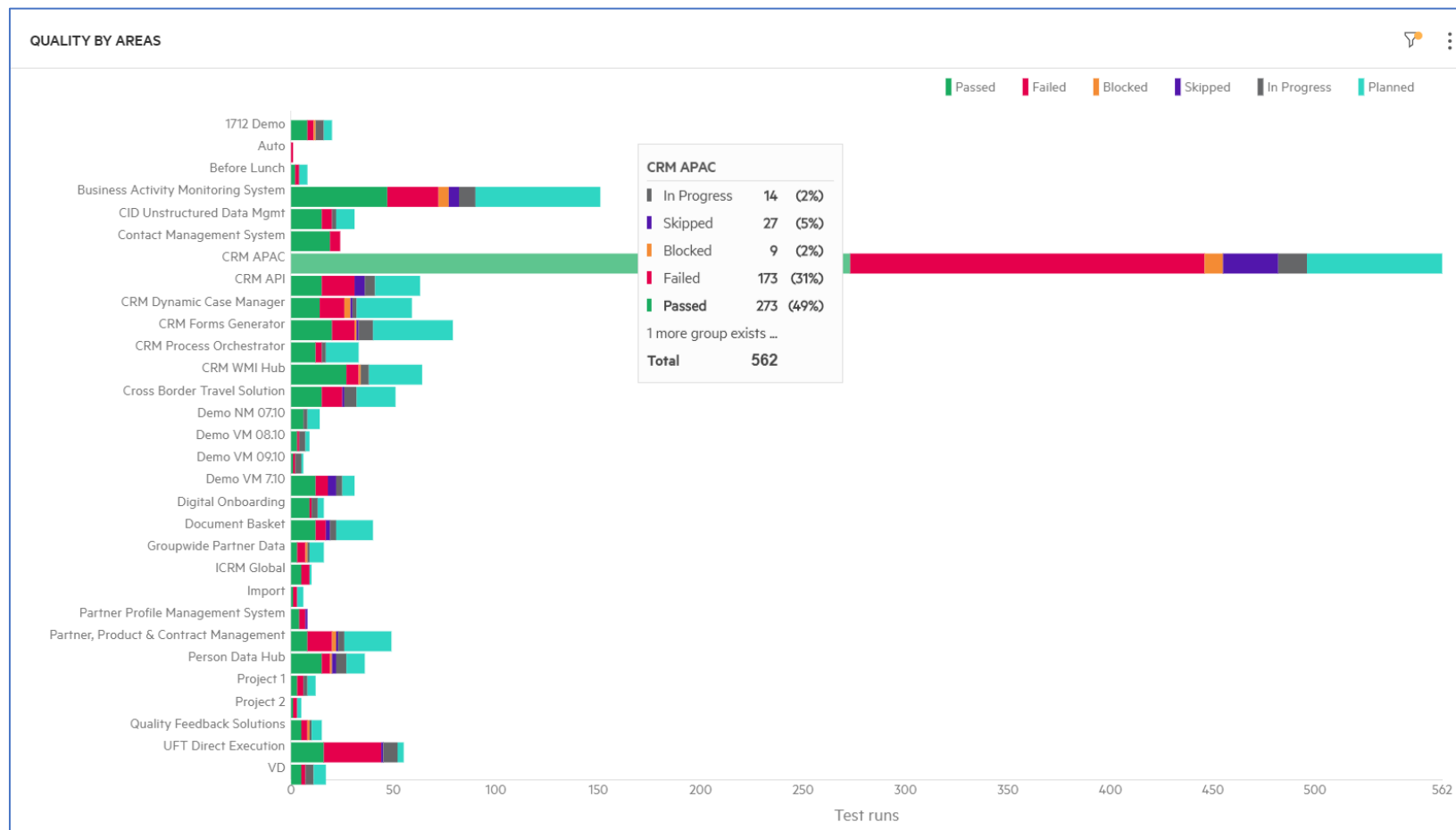
Map Features & Backlog Items to Programs from different Agile Project Tools

Unleash the Power of ALM Octane



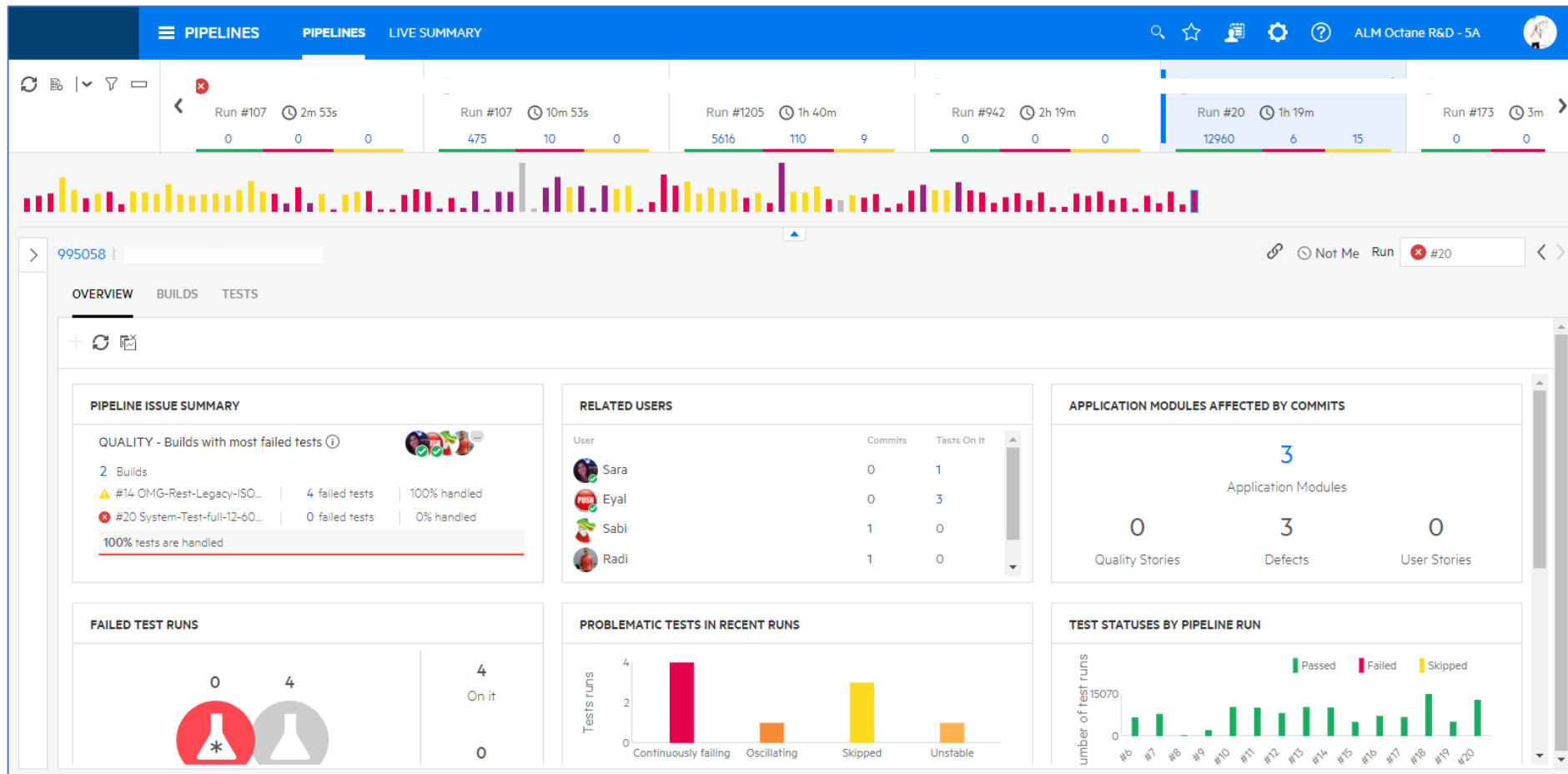
Map synchronized Backlog Items to Quality

Unleash the Power of ALM Octane



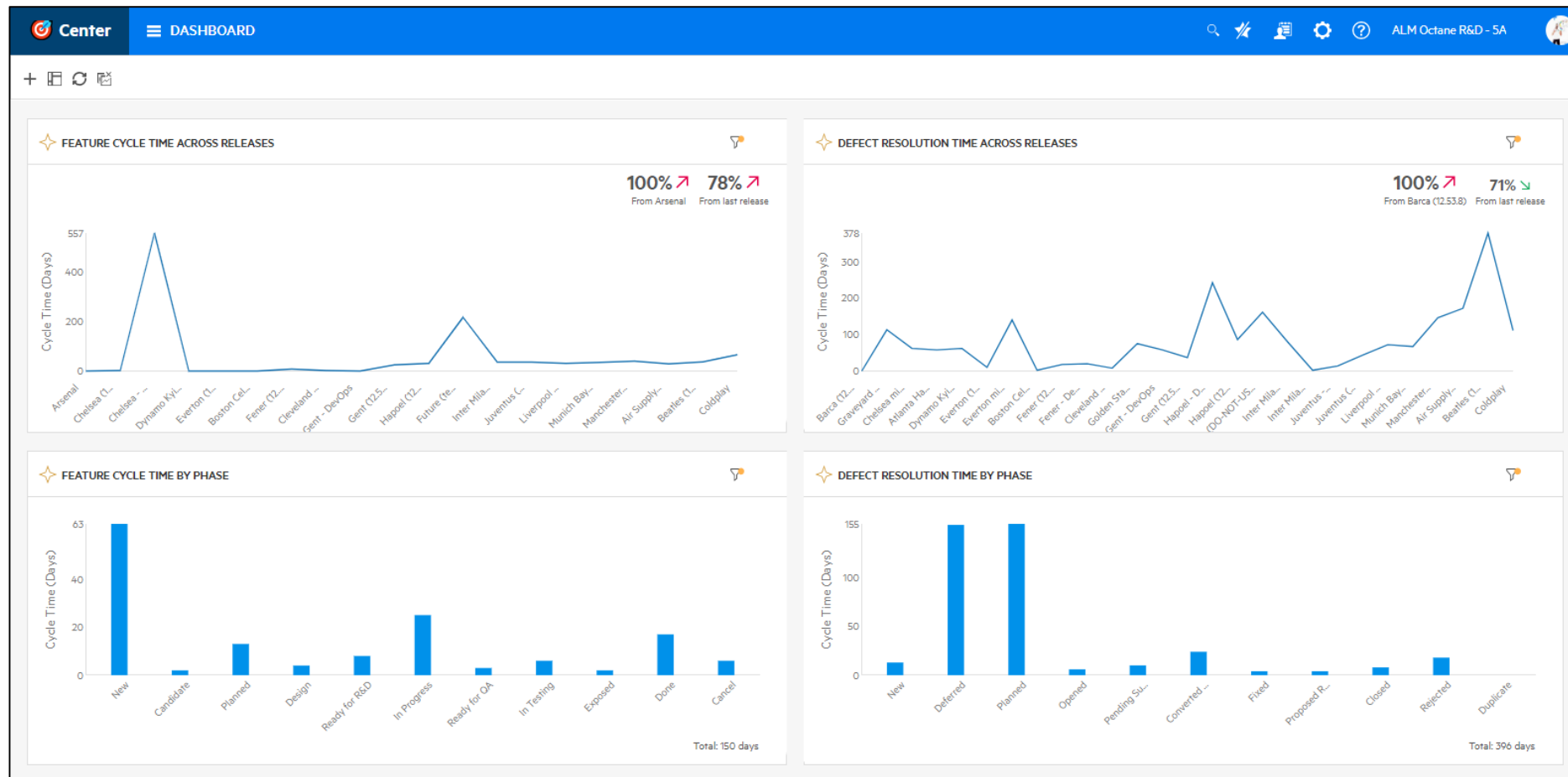
Get End-to-End Visibility Into Pipelines

Unleash the Power of ALM Octane



Powerful and easy Dashboards

Unleash the Power of ALM Octane



Powerful and easy Dashboards (2)

Unleash the Power of ALM Octane



Start your DevOps Transformation Journey with ALM Octane

<https://www.microfocus.com/en-us/products/alm-octane/free-trial>