

# DEVLERAZUREDA - DevOps Academy

02. Choose an Agile approach to  
software development

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# Github – DevOps Academy

<https://github.com/msdevopsacademy/>

Repo:

02-choose-an-agile-approach-to-software-development

# Azure Boards

Track work with Kanban boards, backlogs, team dashboards, and custom reporting.



## Connected from idea to release

Track all your ideas at every development stage and keep your team aligned with all code changes linked directly to work items.



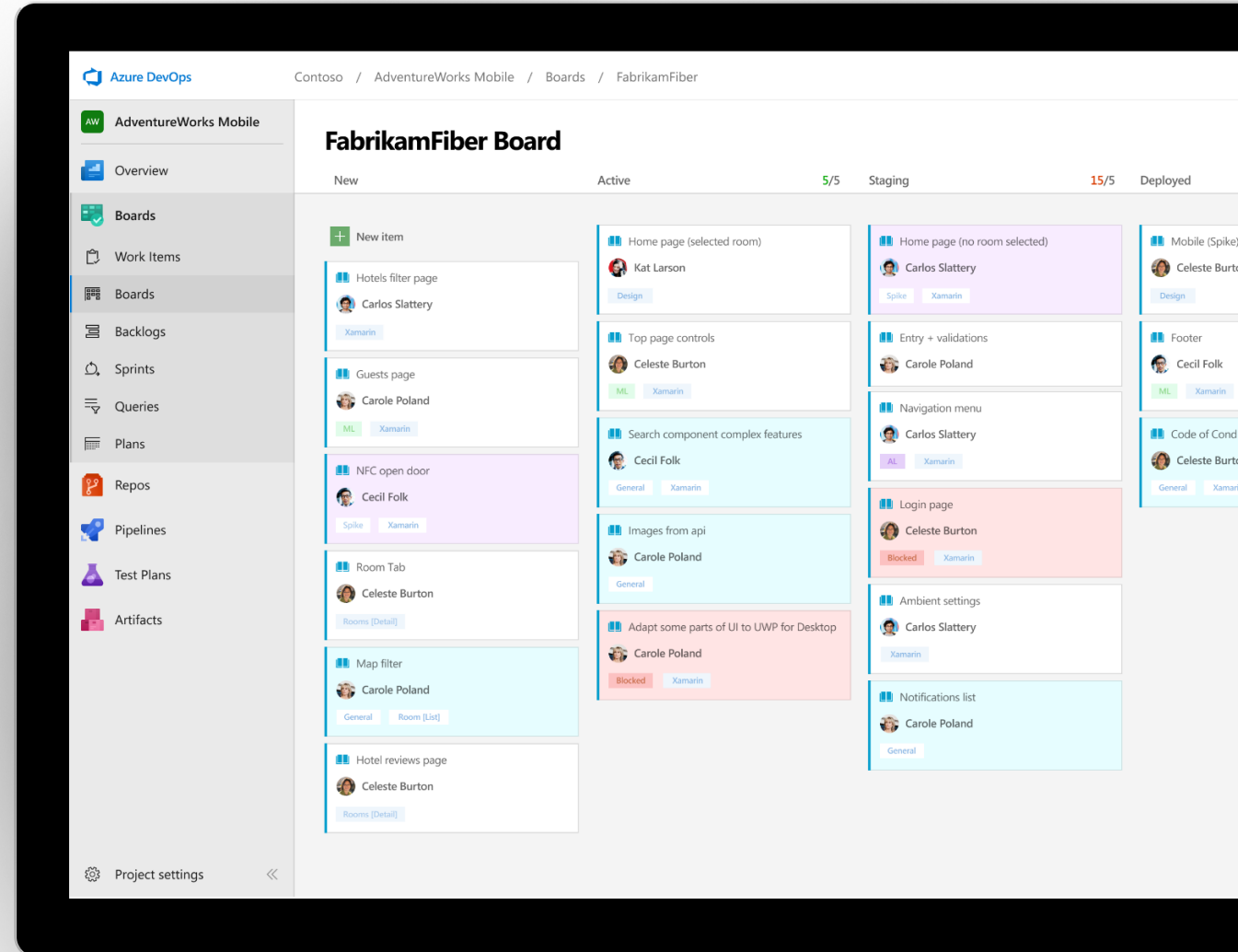
## Scrum ready

Use built-in scrum boards and planning tools to help your teams run sprints, stand-ups, and planning meetings.



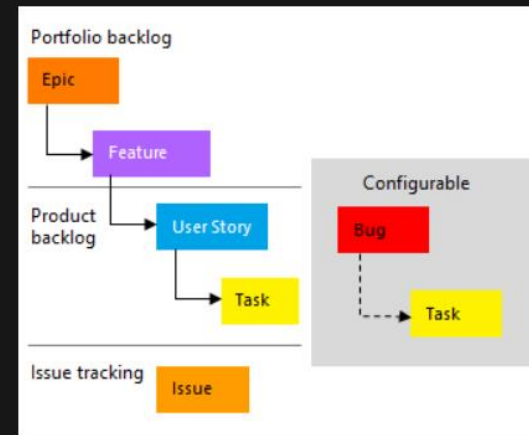
## Project insights

Gain new insights into the health and status of your project with powerful analytics tools and dashboard widgets.



The Agile process provides several work item types—for example, user stories, tasks, bugs, features, and epics among others—to plan and track work. We recommend you start by adding user stories. If you need to group them into a hierarchy, you can define features. If you want to track additional details of work, you can add tasks to a user story.

### Work item types



### Backlog hierarchy

State	Title
New	Web site updates
New	Web pages
New	Cancel order form
Active	Hello World web site
Active	Change background color
New	Change page layout
New	Develop about page
New	Slow response on form
Active	Secure Sign-in
New	Improve User Experience
Active	Emoticon feedback enabled in client
New	Service status
New	Service support
New	Lookup service outages
Resolved	Canadian addresses don't display
Active	Voicemail hang issue
Active	Check issues with permissions

Agile process

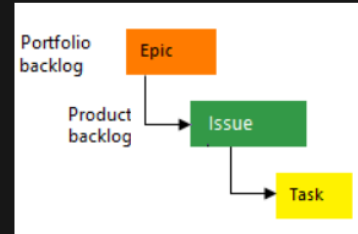
Basic process

Scrum process

CMMI process

The Basic process provides three work item types—epics, issues, and tasks—to plan and track work. We recommend you start by adding issues to track your user stories, bugs, or feature items. If you need to group them into a hierarchy, you can define epics. If you want to track additional details of work, you can add tasks to an issue.

#### Work item types



#### Backlog hierarchy

State	Title
To Do	Web site updates
Doing	Secure sign-in
Doing	Hello World web site
To Do	Design welcome screen
To Do	Standarize form factors
To Do	Change background color
To Do	About screen
To Do	Welcome back page
To Do	Change initial view
To Do	Service status
Doing	Resolve service status issues
Doing	Check performance
To Do	Change new item

Within each work item form, you can describe the work to be done, assign work to project contributors, track status, and collaborate with others through the Discussion section.

Here we show how to add issues and child tasks from the web portal and add details to those work items .

Agile process

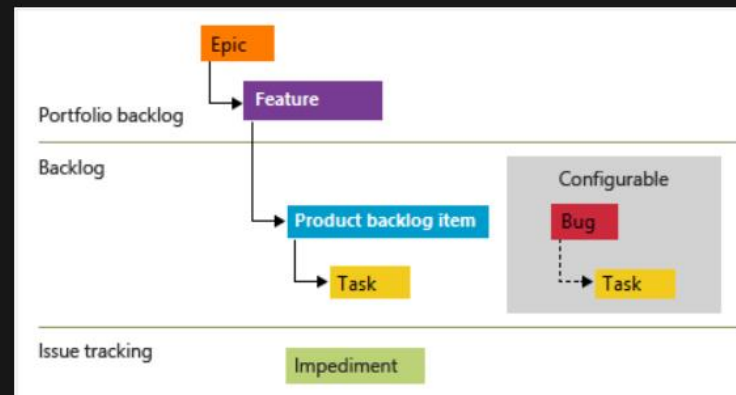
Basic process

Scrum process

CMMI process

The Scrum process provides several work item types—for example, product backlog items, tasks, bugs, features, and epics among others—to plan and track work. We recommend you start by adding product backlog items. If you need to group them into a hierarchy, you can define features. If you want to track additional details of work, you can add tasks child items to a product backlog item.

### Work item types



### Backlog hierarchy

State	Title
New	Phase 1 - Customer access and engagement
In Progress	Customer Phone - Phase 1
Committed	Request support
Approved	Phone sign in
New	Customer Web - Phase 1
New	Support mobile apps
New	Mobile shopping cart
Approved	Check out
New	Add an item
New	Clear an item
New	Design UI
New	Mobile feedback
New	Customer service - improve UI performance
In Progress	Refresh web look, feel, performance factors
New	Bug 2



Agile process

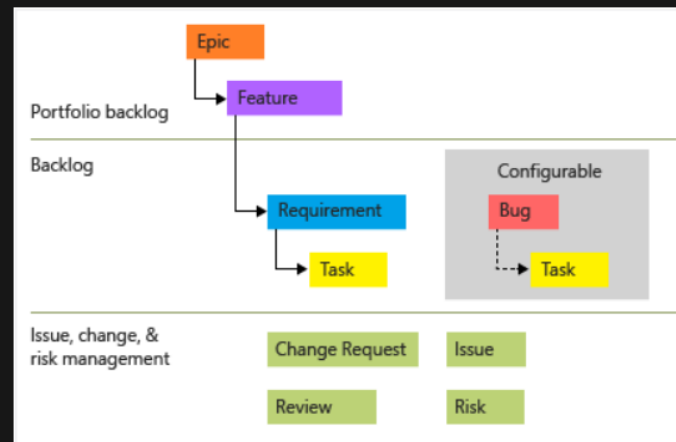
Basic process

Scrum process

CMMI process

The CMMI process provides several work item types—for example, requirements, tasks, bugs, features, and epics among others—to plan and track work. We recommend you start by adding requirements. If you need to group them into a hierarchy, you can define features and epics. If you want to track additional details of work, you can add tasks child items to a requirement.

### Work item types



### Backlog hierarchy

Work Item Type	Title
Epic	Service status
Feature	Web pages
Requirement	Cancel order form
Bug	Slow response on form
Bug	Secure sign-in
Feature	Improve User Experience
Feature	Emoticon feedback enabled
Epic	Web site updates
Feature	Service support
Requirement	Lookup service outages
Bug	Voicemail hang issues
Bug	Check issues with permissions

Within each work item form, you can describe the work to be done, assign work to project contributors, track status, and collaborate with others through the Discussion section.

Here we show how to add user stories and child tasks from the web portal and add details to those work items .

# Work Items Hub

Use work items to find and focus on work you care about.



## Find work items assigned to you

Track work items that you're following or have viewed or modified recently.



## Rich filtering

Filter work items on types, assignment, states, area, and tags.



## Query and Search work items

Query work items within your project or across projects.

The screenshot displays the Azure DevOps Work Items Hub interface. The top navigation bar shows the Azure DevOps logo, the organization name 'ContosoIncorporated', and the path 'Directory / Boards / Work Items'. The left sidebar contains a list of navigation items: Directory, Overview, Boards, Work Items (selected), Boards, Backlogs, Sprints, Queries, Repos, Pipelines, Test Plans, and Artifacts. The main content area is titled 'Work Items' and includes a filter bar with 'Assigned to me', '+ New Work Item', 'Open filtered view in Queries', 'Column Options', and a search filter. Below the filter bar is a table of work items with columns for ID, Title, Assigned To, State, and Tags. The table lists several work items, including one with ID 1598 titled 'An error is thrown in the shopping c...' assigned to Aaron Bjork with a Resolved state.

ID	Title	Assigned To	State	Tags
1598	An error is thrown in the shopping c...	Aaron Bjork	Resolved	Custom...
1601	As user, I want to empty my shopping cart...	Lowell Steel	Active	Adminis...
1597	Add the identity log tables into the DB	Aaron Bjork	Closed	Framewo...
1602	Shopping Cart	Aaron Bjork	Active	
1599	Shopping cart comparison	Noah Munger	New	Release...
1596	Not able to complete sign up flows	Aaron Bjork	Active	Core



# Boards Hub

The pre-configured Kanban board is perfect for managing the flow of your work.



## Highly customizable

Customize columns, swim lanes, cards, conditional formatting, filtering, and even WIP limits.



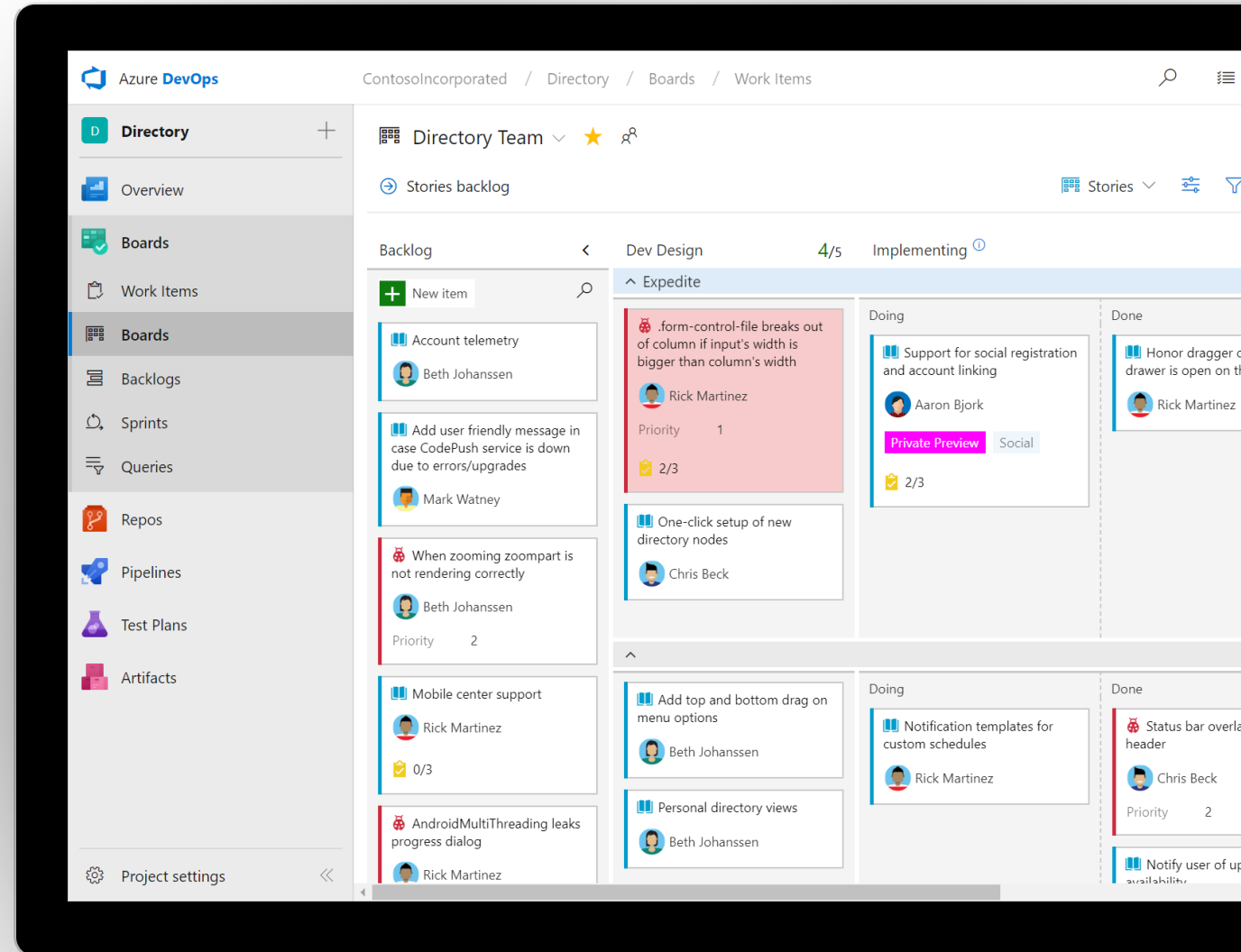
## Extensibility through extensions

Add specific features and capabilities to your board with free or paid extensions.



## Live updates

See all board changes as they happen.



# Backlogs Hub

Use your product backlog to quickly plan and prioritize your work.



## Prioritize work items

Drag and drop items to adjust the order to help keep things in order or priority.



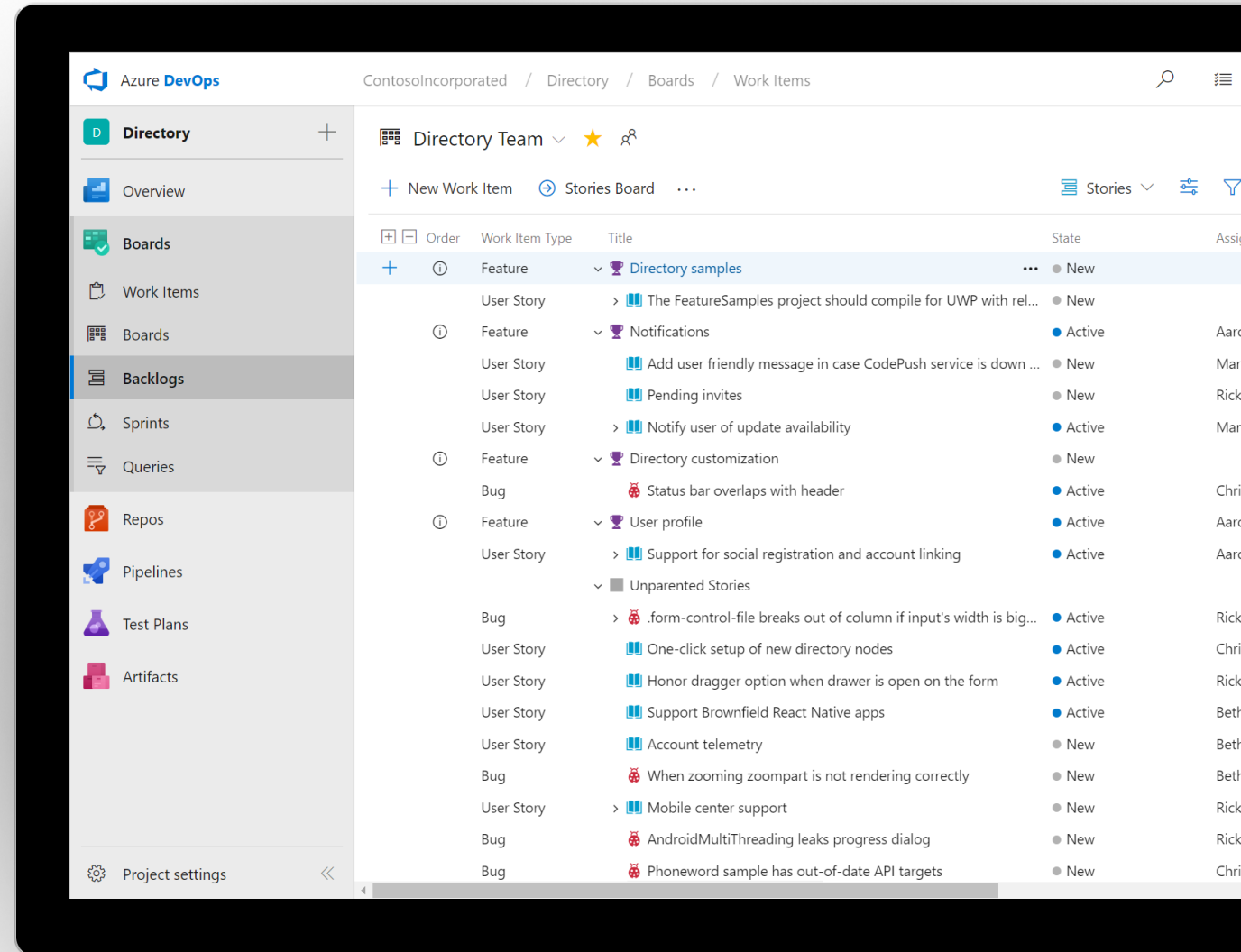
## Manage relationships with hierarchy

After you've added features or epics to your portfolio backlog, you can map backlog items to them.



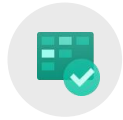
## Plan sprints

Use the Plan Sprints pane to quickly assign work to an upcoming sprint.



# Sprints Hub

Sprints give you the ability to create increments of work for your team to accomplish together.



## Taskboard

Use the taskboard in daily Scrum meetings to view progress made to backlog items and tasks.



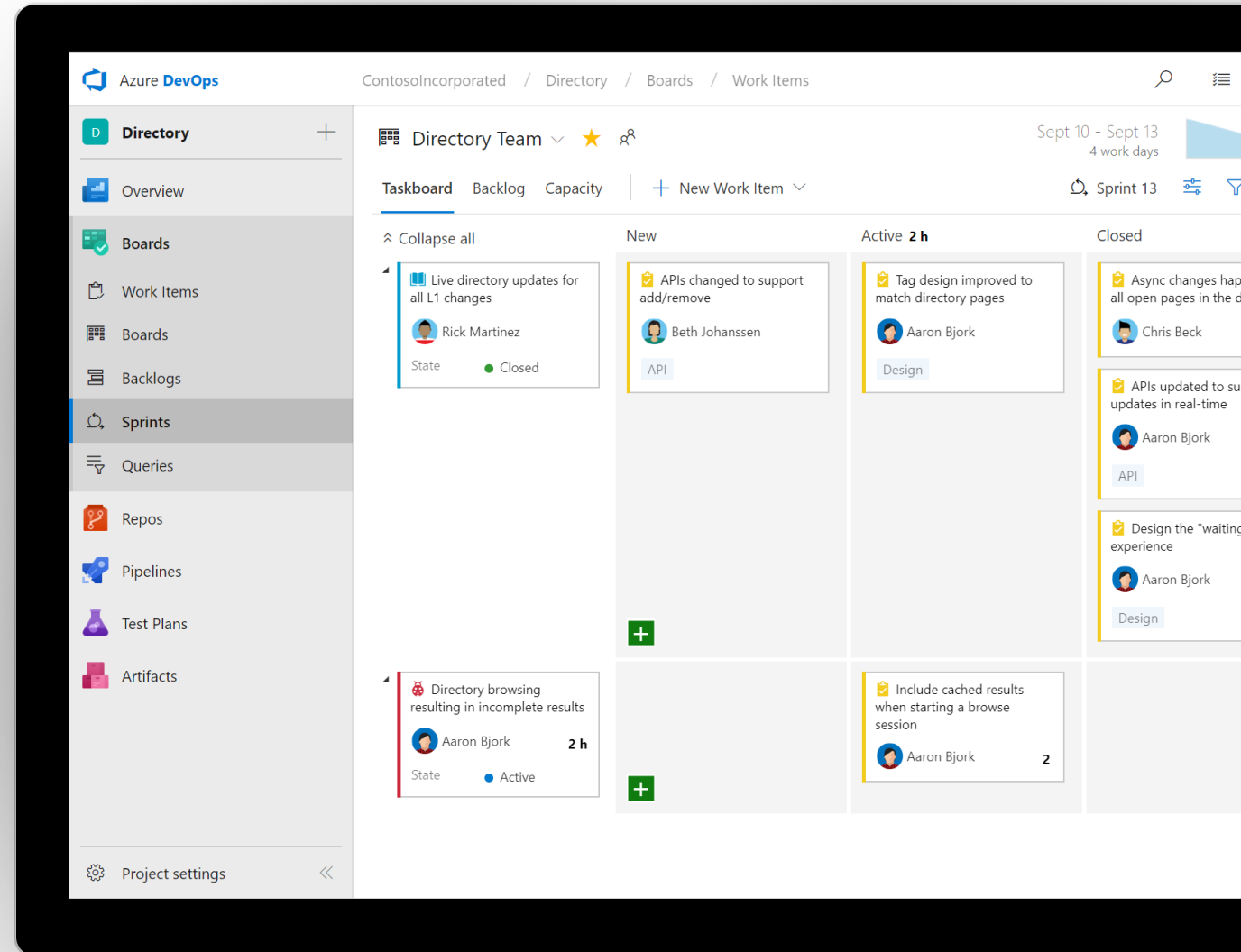
## Capacity Planning

Assign work hours to team members to help you and your team deliver your work on time.



## Burndown Chart

Throughout your sprint, you can monitor the sprint burndown chart to determine if your team is on track to complete its sprint plan.



# Queries Hub

Tailor exactly what you're tracking with the query engine.



## Cross-project

Create and save queries to track work across different team projects.



## Pin to dashboard

Quickly pin queries to dashboards for quick monitoring and status.



## Bulk modify work items

Use bulk modify to quickly modify one or more fields for work items.

The screenshot displays the Azure DevOps interface for the 'ContosoIncorporated' project, specifically the 'Directory' view under 'Boards' > 'Work Items'. The 'Queries' section is active, showing a list of work items. The selected work item, ID 1606, is 'Build the cache tables needed to support carts w/o any items' assigned to Christina Kelly. The detailed view shows the task's state as 'New', area as 'FabrikamFiber', and iteration as 'FabrikamFiber\Sprint 3'. The description field contains the text: 'The cart needs a new cache mechanism in order to support pre-loading. The empty cart scenario makes this all the more important.' The planning section shows a priority of 2 and a development status.

ID	Work Item...	Title	Assigned To	State
1605	Task	Design the empty cart experience	Lowell Steel	New
1606	Task	Build the cache tables needed to support carts w/o any items	Christina Kelly	New
1607	Task	Update all error messages	Lowell Steel	New
1608	Task	Build the popup experience prompting to need to empty your cart	Aaron Bjork	Active
1609	Task	Update any controllers that need attention after supporting the empty ...	Noah Munger	New
1610	Task	Find all search experiences that should be updated	Lowell Steel	New
1611	Task	Empty cart prompts	Christina Kelly	Active

**Task 1606: Build the cache tables needed to support carts w/o any items**

Assigned to: Christina Kelly (1 comment)

State: New | Area: FabrikamFiber | Iteration: FabrikamFiber\Sprint 3

**Description:** The cart needs a new cache mechanism in order to support pre-loading. The empty cart scenario makes this all the more important.

**Planning:** Priority 2, Development

# Dashboards

Dashboards give a clear view of what's happening to track progress and direction.



## Real-time information

Dashboards provide easy-to-read, easy access, real-time information



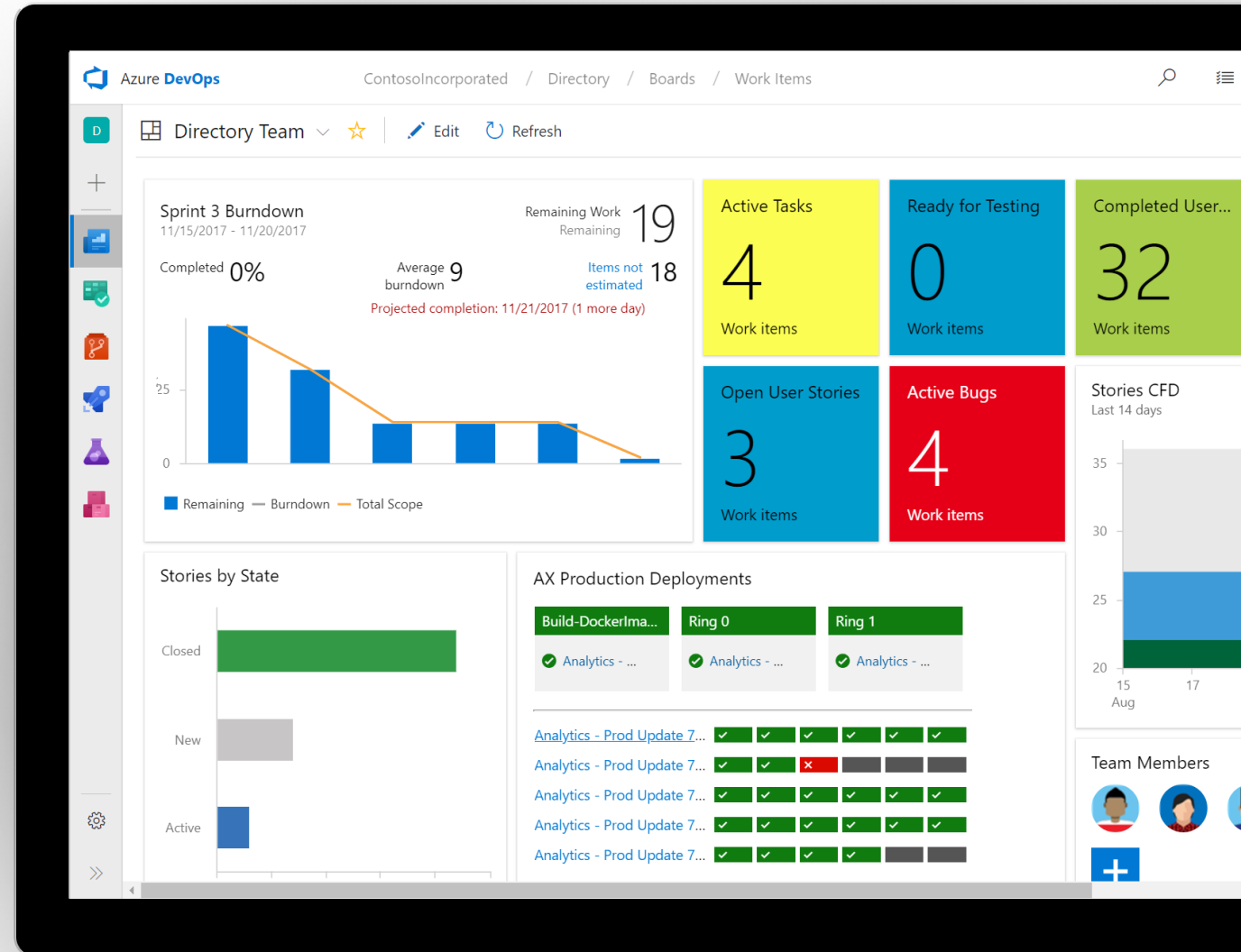
## Thriving community of widgets

Widgets smartly format data to provide access to easily consumable data. Add widgets to your team dashboards to gain visibility into the status and trends occurring as you develop your software project.



## Add dashboards as needed

Tailor configure the layout that makes sense for your team, and easily monitor progress throughout the lifecycle of your project.



**Demo**

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