

**KNOWLEDGE BASE ARTICLE**

# Display Azure DevOps Query Results on SharePoint Site



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## Introduction

In today's fast-paced development environment, seamless integration between tools is crucial for maintaining productivity and efficiency. One powerful combination is SharePoint Online and **Azure DevOps**. By integrating these two platforms, teams can leverage the collaborative features of SharePoint while accessing real-time data from Azure DevOps.

This article will guide you through the process of installing and configuring the **Azure DevOps Query Viewer Web Part** in **SharePoint Online** that displays Azure DevOps Query results.

Whether you're a developer looking to streamline your workflow or an administrator aiming to enhance your team's project management capabilities, this step-by-step guide will help you set up and customize the web part to meet your specific needs.

## Azure DevOps Query Viewer Web Part

The Azure DevOps Query web part has been a valuable addition to the My Tasks solution since version 6.x and above.

### Note

To utilize this web part, ensure that your My Tasks solution is updated to the latest version. For detailed instructions on updating the solution, please refer to the article available [here](#).

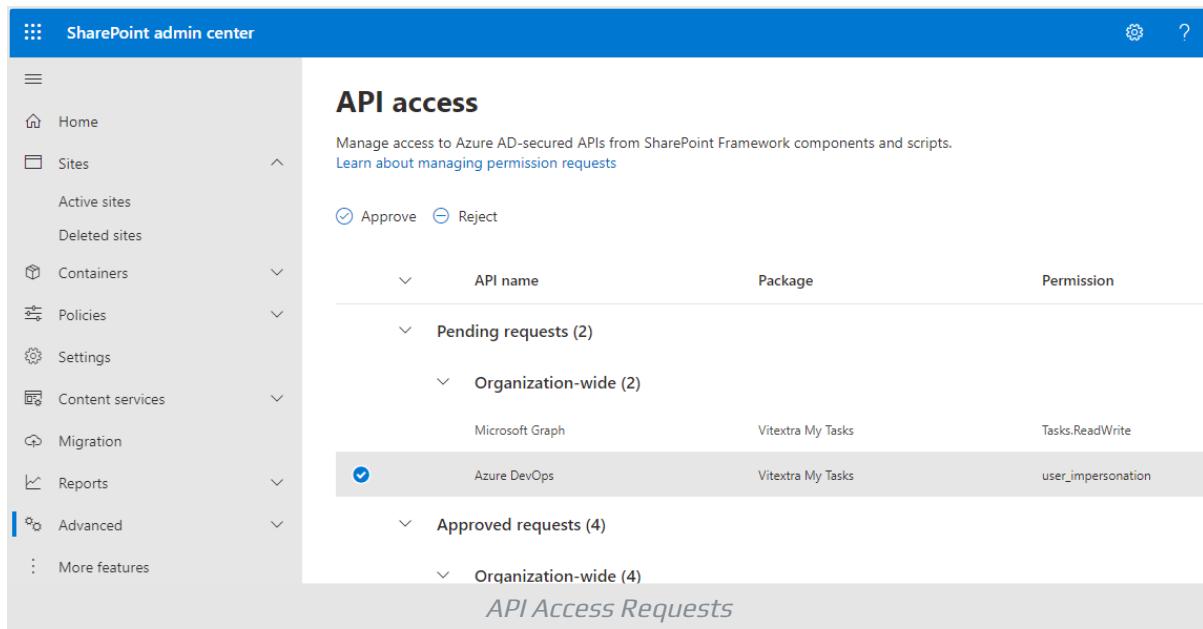
## Prerequisites

Before you begin installing and configuring the web part to display Azure DevOps Query results on your SharePoint Online site, ensure you have met the following prerequisites:

### 1. Approved API Access for the SharePoint Solution

Ensure that your SharePoint Online environment has the necessary API access approved. This involves registering your SharePoint solution with **Entra ID** and granting it the required permissions to interact with Azure DevOps **REST APIs**.

This step is crucial for enabling the web part to retrieve and display data from Azure DevOps.



The screenshot shows the 'API access' page in the SharePoint admin center. The left sidebar includes 'Home', 'Sites', 'Active sites', 'Deleted sites', 'Containers', 'Policies', 'Settings', 'Content services', 'Migration', 'Reports', 'Advanced', and 'More features'. The main content area is titled 'API access' and contains a table of 'Pending requests (2)' and 'Approved requests (4)'. The table columns are 'API name', 'Package', and 'Permission'. The 'Approved requests (4)' section is expanded, showing a row for 'Azure DevOps' with 'Vitextra My Tasks' as the package and 'user\_impersonation' as the permission. A blue checkmark is next to the 'Azure DevOps' row.

API name	Package	Permission
Microsoft Graph	Vitextra My Tasks	Tasks.ReadWrite
Azure DevOps	Vitextra My Tasks	user_impersonation

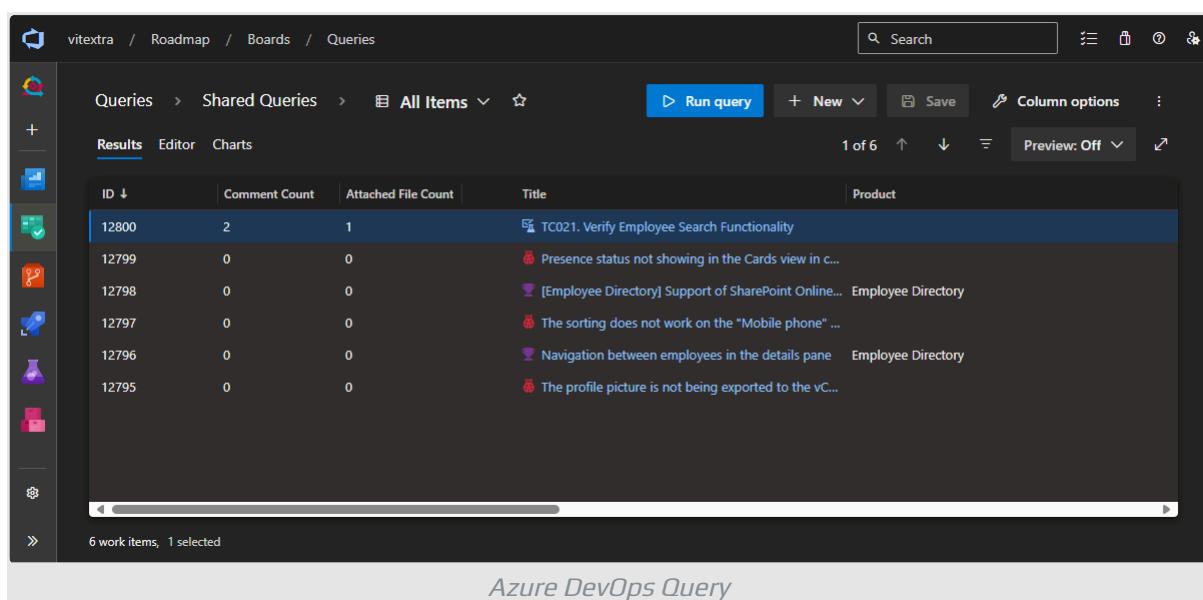
### Tip

For detailed instructions on the installation process, please refer to the article [How to Install a Vitextra Product in SharePoint Online](#).

## 2. Access to Azure DevOps Organization

You must have access to the Azure DevOps organization that will serve as the data source for the web part. This includes having an active Azure DevOps account and being a member of the organization where the queries are stored.

Without this access, the web part will not be able to fetch the necessary data.



The screenshot shows the 'Azure DevOps Query' interface within the Vitextra product. The top navigation bar includes 'vitextra / Roadmap / Boards / Queries'. The main area shows a list of work items with columns: 'ID', 'Comment Count', 'Attached File Count', 'Title', and 'Product'. The first item is selected, showing '12800' with '2' comments and '1' attached file. The title is 'TC021. Verify Employee Search Functionality'. Other items listed include 'Presence status not showing in the Cards view in c...', '[Employee Directory] Support of SharePoint Online...', 'The sorting does not work on the "Mobile phone" ...', 'Navigation between employees in the details pane', and 'The profile picture is not being exported to the vc...'. A sidebar on the left contains icons for 'Queries', 'Shared Queries', 'Editor', and 'Charts'. The bottom status bar indicates '6 work items, 1 selected'.

ID	Comment Count	Attached File Count	Title	Product
12800	2	1	TC021. Verify Employee Search Functionality	
12799	0	0	Presence status not showing in the Cards view in c...	
12798	0	0	[Employee Directory] Support of SharePoint Online...	Employee Directory
12797	0	0	The sorting does not work on the "Mobile phone" ...	
12796	0	0	Navigation between employees in the details pane	Employee Directory
12795	0	0	The profile picture is not being exported to the vc...	

### Note

The My Tasks solution working within SharePoint Online or Azure DevOps makes a call to API and other services on behalf of the logged-in user.

## 3. Necessary Permissions to Read Information about Projects and Queries

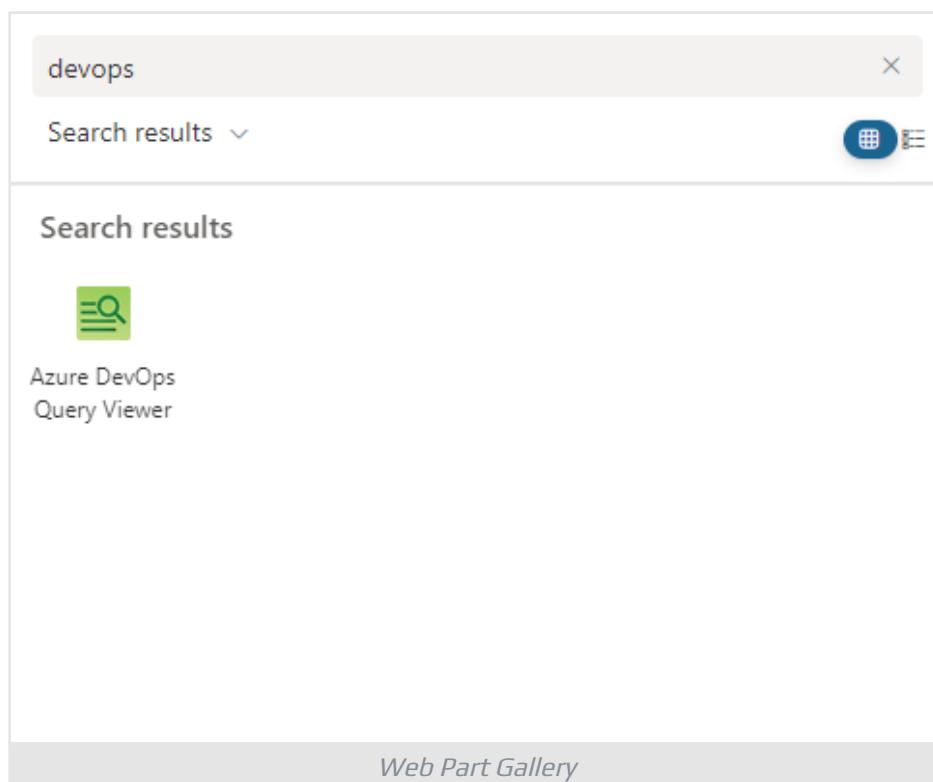
End users who will interact with the web part need to have the appropriate permissions within Azure DevOps to read information about projects and queries. This typically means having at least read access to the projects and queries displayed on the SharePoint site.

Ensure that the user roles in Azure DevOps include these permissions to avoid any access issues during usage.

## Adding the Web Part

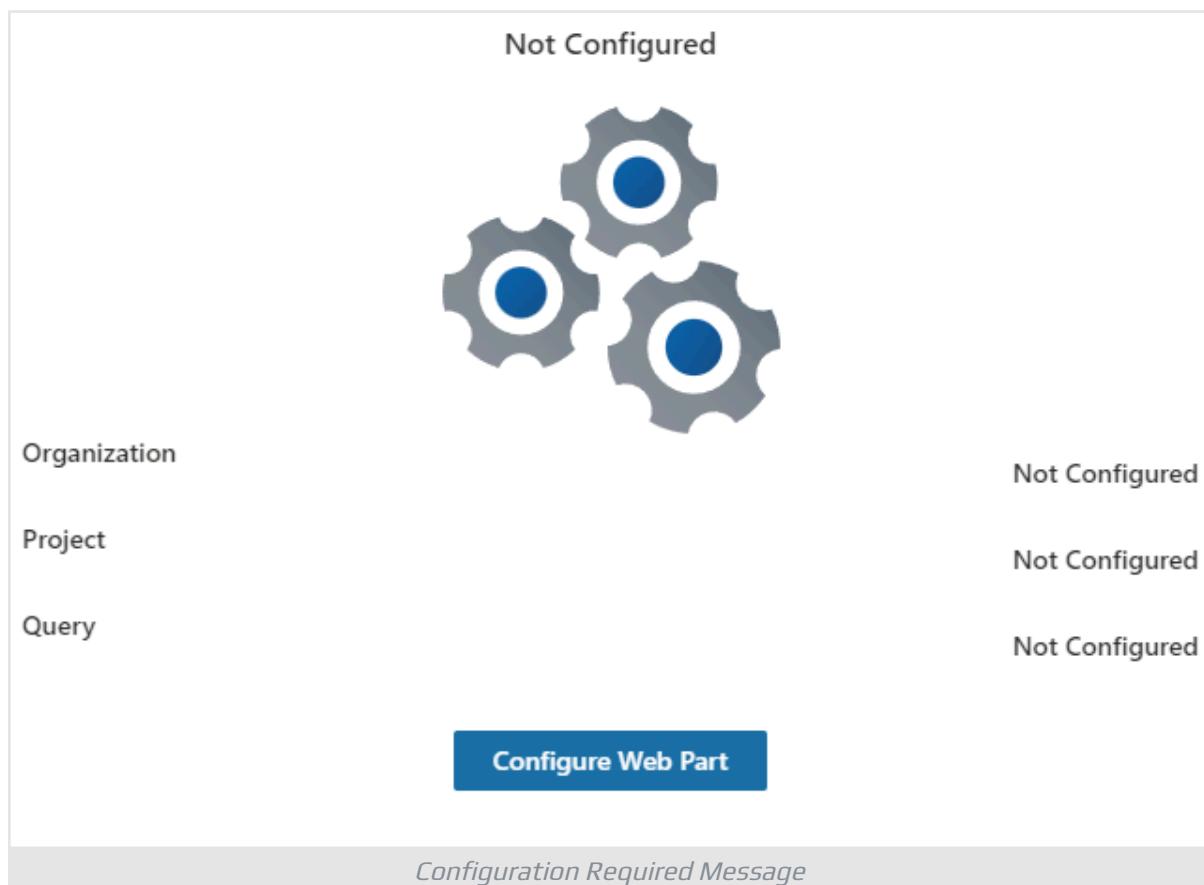
Once you have met all the prerequisites, you can proceed with adding the Azure DevOps Query web part to your SharePoint Online site.

Navigate to the page where you want to add the web part and click on the "Edit" button. Next, click on the + icon to add a new web part. A list of **available web parts** will appear.



From the list of web parts, search for the Azure DevOps Query web part. Select it to add it to your page.

Once the web part is added to the page, you will see the following notification about the web part not configured:



You will need to configure it to display the desired Azure DevOps Query results.

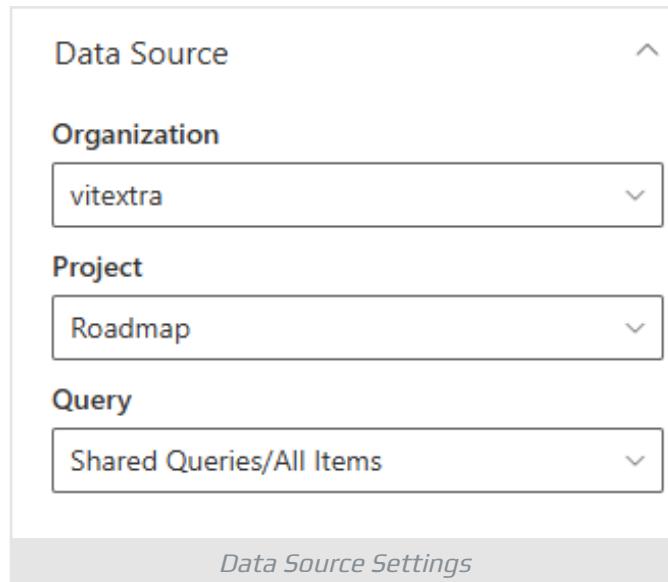
## Web Part Configuration

Click on the Edit Web Part icon (pencil icon) or **Configure Web Part** button to open the configuration pane.

### Data Source

In the configuration pane, enter the necessary details to connect to your Azure DevOps organization. This includes:

- Azure DevOps **Organization**.
- **Project** from which you want to display query results.
- Specific **Query** you want to display.



## Supported Query Types

The Azure DevOps Query web part currently supports only flat queries. Flat queries are straightforward and list **work items** without any hierarchical structure. This means that the web part can display a simple list of work items that match the specified criteria, but it does not support tree or direct links queries, which involve parent-child relationships or linked work items.

### ⚠ Warning

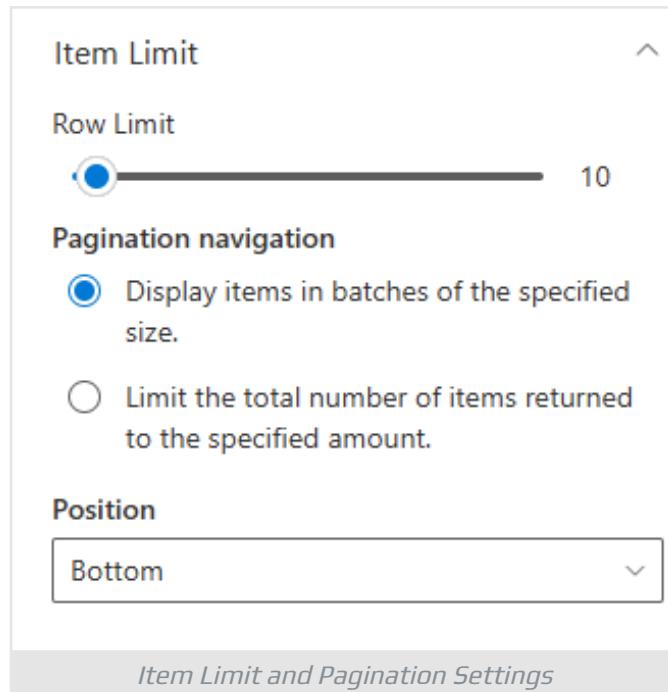
The Azure DevOps Query web part currently supports only flat queries.

## Display Options

Use **Row Limit** slider to choose how many work items you want to display in the directory at a time.

To enable pagination for the query select **Display items in batches of the specified size** and choose the position of the pagination control (top, bottom, or both).

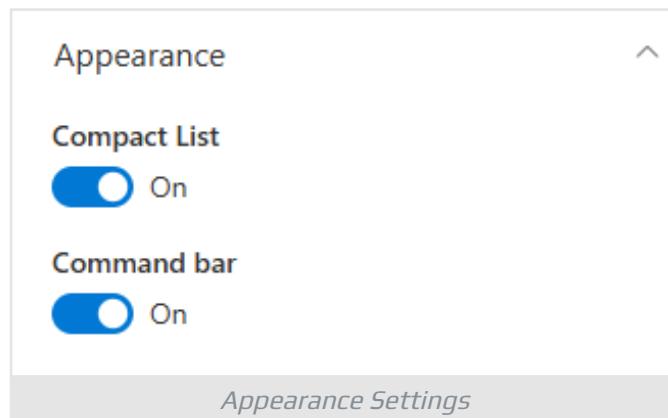
If you want to disable pagination select **Limit the total number of items returned to the specified amount** and specify the desired amount.



## Appearance

The last section offers several configuration options to customize how query results are displayed on your SharePoint Online site. Here are two key options:

- 1 Compact List.** The compact mode option allows you to display the details list in a more condensed format. This is particularly useful when you want to fit more information on the screen without requiring users to scroll extensively.
- 2 Command Bar.** The command bar provides users with quick access to various actions and commands related to the displayed query results. This includes options like refreshing the data, exporting to Excel, and more.



## Result

By following the steps outlined in this guide, you will successfully integrate Azure DevOps Query results into your SharePoint Online site. This integration allows your team to view real-time data from Azure DevOps directly within SharePoint,

enhancing collaboration and project management efficiency.

Azure DevOps Query

Refresh

ID			Title	State	Description	Tags
12796			🏆 Navigation between employees in the details	Done		
12797			❗ The sorting does not work on the "Mobile ph...	Done		
12798			🏆 [Employee Directory] Support of SharePoint O...	New		
12799			❗ Presence status not showing in the Cards view	Done		
12800	2	1	☒ TC021. Verify Employee Search Functionality	Design	Ensure that the e...	Search

« < 1 2 > »

Azure DevOps Query Viewer Web Part

## Conclusion

The Azure DevOps Query web part allows you to access real-time data by displaying up-to-date query results from Azure DevOps, ensuring your team always has the latest information. You can customize the display to meet your specific needs, including options for compact mode and a command bar. Additionally, it improves workflow by consolidating project management tools, reducing the need to switch between different platforms.

This powerful integration not only boosts productivity but also provides a unified view of your project tasks and progress, making it easier for your team to stay informed and aligned with project goals.

# Terms

## Azure DevOps

Azure DevOps Services (formerly Visual Studio Team Services) is a cloud-based product that provides version control, requirements management, automated pipelines for builds and releases, and testing capabilities.

## Entra ID

Microsoft Entra ID (formerly Azure Active Directory) is a cloud-based identity and access management service offered by Microsoft. This service allows organizations to efficiently manage and secure their users' identities and access to a variety of resources, both internal and external. These resources include Microsoft 365, the Azure platform, and thousands of other software-as-a-service (SaaS) applications.

## REST API

REST API (Representational State Transfer Application Programming Interface) is a standardized way for software applications to communicate over the internet. It enables clients to request and manipulate data from a server using standard HTTP methods like GET, POST, PUT, and DELETE. REST APIs are widely used for building web services that are scalable, flexible, and can be accessed by various client applications.

## SharePoint Online

Cloud version of SharePoint, a web-based collaborative platform within Microsoft 365 provides an extensive range of capabilities to store, share, and manage digital information, content, and knowledge of an organization.

## Web Part Gallery

The SharePoint Web Part Gallery is a centralized repository within SharePoint where users can discover, access, and manage various pre-built components, known as web parts, to enhance the functionality and customization of their SharePoint sites. It offers a diverse range of tools and widgets developed by Microsoft and third-party developers, empowering users to easily extend and tailor their SharePoint experience to meet specific business needs without extensive coding or development.

## Work Item (Azure DevOps)

A Work Item in Azure DevOps is a unit used to track various types of work within a project, such as tasks, bugs, features, and user stories. It helps teams plan, manage, and monitor their work efficiently, ensuring all project aspects are documented and progress is tracked.

# Terms