

# **Tenable and Jira Cloud Integration Guide**

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## Welcome to Tenable for Jira Cloud

The Tenable for Jira Cloud integration provides you with the organizational convenience of managing vulnerabilities detected in Tenable Vulnerability Management from the Tenable platform itself. When you configure the Tenable for Jira Cloud integration, <u>custom fields</u> are created in Tenable for Jira Cloud. The integration uses these custom fields to organize and manage vulnerabilities detected when running vulnerability scans.

- Tenable for Jira Cloud pulls Tenable Vulnerability Management vulnerability data, then generates Jira tasks and linked tasks based on the vulnerability's current state. Tasks are automatically closed once the state of the vulnerability is marked as **Fixed** in Tenable Vulnerability Management.
- Tenable for Jira Cloud creates a Tenable Vulnerability Task for each vulnerability and creates each vulnerability instance as a "linked task." For example, if you have five hosts with plugin 151074 on a Group-by vulnerability, the integration creates one Tenable Vulnerability Task with the details for that specific plugin and creates five linked tasks. Each linked task points to a specific instance of the vulnerability, on a specific host.
- Tenable for Jira Cloud automatically closes **Vulnerability Instances** once the vulnerability is fixed in Tenable Vulnerability Management.
- Vulnerabilities are closed once all linked tasks enter a closed state.
- If a vulnerability is reopened, Tenable Vulnerability Tasks are moved to the **Reopen** status.
- All data imports from Tenable Vulnerability Management are synced with Tenable for Jira Cloud after the scan gets completed. Vulnerabilities are available in Tenable for Jira Cloud after scan completion and some processing time

The Tenable for Jira Cloud integration can pull historic findings as well as new findings as they get discovered by the platform and creates Jira issues for each vulnerability in the project that you specify. The integration creates Jira tickets according to the following scenarios:

Group By Vulnerability

- For every vulnerability plugin, the integration creates a vulnerability issue.
- For every affected asset, the integration creates a vulnerable host issue and a blocking link to the related vulnerability issue. A linked issue is created under the vulnerability task.
- As assets are remediated, vulnerable host tickets are marked as resolved.
- If all vulnerable host issues related to a vulnerability issue are marked as resolved, the vulnerability issue is marked as resolved.
- If an asset is found to have a vulnerability again, but was previously resolved, the integration reopens the vulnerable host issue.
- If a vulnerability issue is marked as resolved and a new vulnerable host issue is linked to it (or a prior vulnerable host issue that was resolved) the vulnerability issue is reopened.
- All historic data imported from Tenable Vulnerability Management uses the last\_found field. This ensures that all issues are updated whenever new information becomes available.

#### Group By Asset

- For every host, a vulnerability host issue is created.
- For every reporting plugin, the integration creates a vulnerability issue and a blocking link to the related vulnerability host issue. A linked issue is created under the vulnerability host task.
- As findings are remediated, vulnerability issue tickets are marked as resolved.
- If all vulnerability issues related to a vulnerability host issue are marked as resolved, the vulnerability host issue is marked as resolved.
- If a vulnerability issue is found to have a vulnerability again, but was previously resolved, the integration reopens the vulnerable issue.
- If a vulnerability host issue is marked as resolved and a new vulnerable plugin issue is linked to it (or a prior vulnerable plugin issue that was resolved) the vulnerability issue is reopened.

In Tenable Vulnerability Management, the vulnerability issue and vulnerable host issue titles are automatically generated using the following formula:

- Vulnerability = pluginname + protocol + port + severity
- Vulnerable Host = IPV4 / IPV6 + FQDN

## Prerequisites

Meet the following prerequisites before installing and using the Tenable for Jira Cloud integration:

• An admin user in Tenable Vulnerability Management can configure the integration.

**Note:** The Tenable for Jira Cloud integration requires a user in Jira Cloud who has admin privileges as the integration has to create various components in Jira Cloud, as described <u>here</u>, After the setup is completed and ticket generation begins, admin privileges can be dropped and you can downgrade the user to <u>these permissions</u>.

- The Tenable for Jira Cloud integration requires a user in Jira cloud with admin privileges.
- Projects cannot have mandatory fields or configured validators.
- Ensure your Tenable for Jira Cloud instance does not have any custom field starting with "Tenable." Delete these.
- Ensure you have no Issue types with the name "Tenable Vulnerability Host" or "Tenable Vulnerability."
- If you are creating the integration project manually, select the project template as **Business** (Jira Work Management), and the project type as **Company-Managed**. For more information, see the <u>Atlassian documentation</u>.

## Components, Actions, and Workflow

Central to the function of the Tenable for Jira Cloud integration are the components created during the initial stages of service, the specific actions the integration performs, and the workflow process in use. You may find it useful to familiarize yourself with these elements for an efficient setup.

## **Created Components**

Tenable for Jira Cloud creates many components during the initial setup. The following table outlines many of the actions performed by the integration.

Component Name Description

Project	Creates a Project with <b>Business</b> (Jira Work Management) as the Project Template and Project Type as <b>Company-Managed</b> .
Workflow	Creates a workflow with the name <b>Tenable Vulnerability Workflow</b> . This workflow uses OPEN (To-do), RESOLVED (Done), and REOPENED (To-do) statuses with transitions Created $\rightarrow$ Resolved $\leftarrow \rightarrow$ Reopen.
Workflow Scheme	Creates a workflow with the name <b>Tenable Vulnerability Workflow</b> Scheme.
Issue Types	Creates Issue Types with the names <b>Tenable Vulnerability Host</b> and <b>Tenable Vulnerability</b> .
Issue Types Schemes	Creates Issue Type Scheme with the name <b>Tenable Issue Type Scheme</b> .
Custom Fields	Creates custom fields listed here.

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## **Actions Performed**

Tenable for Jira Cloud performs the following list of actions:

- Search Project Details
- Search User Details
- Create Project
- Check Project Permissions
- Search Tenable Workflow
- Search Tenable Workflow Scheme
- Search Workflow Status
- Get Workflow Status
- Create Tenable Workflow
- Create Tenable Workflow Scheme
- Assign Workflow Scheme to Project

- Search Tenable Issue Types
- Create Tenable Issue Types
- Create Tenable Issue Types Schemes
- Assign Issue Type Scheme to Project
- Search Custom Fields
- Create Custom Fields
- Attach Custom Fields to screens, tabs
- Search/Create/Edit/Link Issues
- Assign User to the Issue
- Transition Issues
- Change Assignee of the Issue
- Change Reporter of the Issue

### Workflow

The Tenable for Jira Cloud workflow uses OPEN, RESOLVED, and REOPENED statuses:



## **Roles and Permissions**

The Jira Cloud user used to connect to the Tenable for Jira Cloud instance in the integration, should have the following permissions:

- Assignable User
- Assign Issues
- Close Issues
- Create Issues
- Delete Issues
- Edit Issues
- Link Issues
- Modify Reporter

- Move Issues
- Resolve Issues
- Schedule Issues
- Set Issue Security
- Transition Issues

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# **Connect and Configure Tenable for Jira Cloud**

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Required User Role: Administrator

To configure Tenable Vulnerability Management:

- 1. Log in to Tenable Vulnerability Management.
- 2. In the upper-left corner, click the  $\equiv$  button.

The left navigation plane appears.

3. In the left navigation plane, click Settings.

The Settings page appears:

Uashboards View and manage dashboards and customize widgets			
Recast/Accept Review and manage Tenable Vulnerability Management Accept/Recast/Change Result Rules	View and manage Tenable Vulnerability Management Tags and tagging rules.		
1			
Sensors Settings for managing Sensors and Sensor Groups.	Vew and manage Tenable Vulnerability Management Scanning Credentials.	S Target Groups Will soon be retired, Targets defined in Tags will be used going forward.	Exclusions View and manage scanning restrice Exclusions
ration			
License Info (View As) View the License information page as an impersonated user			
ons			1
Cloud Connectors Enable Frictionless Assessment and Cloud	SN ServiceNow Set up two way sync to discover assets with	Automate the vulnerability remediation	Security Platform Integrations Manage data integrations with third-party
	Uashboards View and manage dashboards and customize widgets  Recast/Accept Review and manage Tenable Vulnerability Management Accept/Recast/Change Result Rules  Sensors Settings for managing Sensors and Sensor Groups.  License Info (View As) View the License Information page as an Impersonated user  Cloud Connectors Enable Prictionless Assessment and Cloud	Ueshboards         View and manage dashboards and customize wrigets         Recast/Accept         Revow and manage Tenable Vulnerability Management Accept/Recast/Change Result Rules         Sensors         Settings for managing Sensors and Sensor Groups         Credentials         View the License Info (View As)         We the License Info (View As)         We the License Info (View As)         Sensors         Cloud Connectors         Charle Connectors         Lizense Info (View As)         View the License Information page as an impersonated user	Ueshboards         Were and manage dashboards and customize weiges         Recast/Accept         Recover and manage dashboards and customize weiges         Preview and manage dashboards and customize weights         Recast/Accept         Recover and manage dashboards and customize weights         Management Accept/Recast/Change Result         Image: Comparison of the comparison of the customize weights         Sensors         Settings for managing Sensors and Sensor from and generating Sensors and Sensor from and generating Credentials.         Imagement Scanning Credentials         Were the License Info (View As)         Were the License Info (View As)         Were the License Info (View As)         Total         Ciscual Connectors         Image: Comparison of the customize information page as an impersonated user         Date Previoundes Assessment and Cloud

4. In the Integrations section, click the Jira Cloud tile.

The Jira Cloud - Vulnerability Management page appears:

Ctenable Vulnerability Management		¢	₩ (	PE
← Back to Vulnerability Management Settings				
Vitra Cloud - Vulnerability     Management     Create and assign tickets for your findings	Jira Cloud - Vulnerability Management			
	No data available			

5. Click the **Configuration** button.

The Configuration pop-up appears. By default, the Request Connection tab is active:

<b>tenable</b> Vulnerability	Management			¢\$ III 💌
Back to Vulnerability Management	Settings		×	Edit Deloto
Management Create and assign tickets for your findings	1 Request Connection	Request Connection Fill in the following details to start a request for connection	tion.	
	2 Set up	Jira Cloud URL your-domain atlassian.net Jira Cloud Access Token Jira Cloud access token for your account	Jira Cloud User Account Enter your email	
			Cancel Connect	
	Project Lead	Rishabh Prashar		
	Group by	Vulnerabilities		

6. Use the following table to fill in the appropriate Tenable for Jira Cloud options in the **Request Connection** tab.

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Option Name	Description	Required
Jira Cloud URL	Your Jira cloud instance URL. (For example, yoursite.atlassian.net)	yes
	Note: The integration only supports Jira cloud URLs with a domain ending in *.atlassian.net.	
Jira Cloud Access Key	The Tenable for Jira Cloud integration requires a Site Admin Access Key to create the project, the custom fields, and link all elements to the correct screens.	yes
	documentation.	
Jira User Email Address	The Atlassian user email of the user whose key is provided in the Jira Cloud Access Key field.	yes

7. Click the **Connect** button.

If your credentials are valid, the Set Up section appears to configure the integration:

to Numerability Management	Tellion				_	
tion Planet - U. Anarability	Configuration				×	
Anagement	Request Connection	Set up			_	
	3 Setup	Pit in the following details to complete your setup.				
		<ul> <li>Connection details has been updated sur-</li> </ul>	coeeshilly.		_	
		Denditions				
		Lowest Severity to Store	Symt Since			
		h/s	~ 01/01/004	630AH	•	
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		Select Looot Taghd	×.			
		Jan Ticket Properties				
		Default Radyree	Defect Prop	ed		
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		brieut Reporter	Project Lee	a		
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8. Use the following table to fill in the Tenable for Jira Cloud options in the **Set Up** tab.

Option Name	Description	Required
Set up	Multiple fields to configure Tenable for Jira Cloud, based on your requirements.	yes
Lowest Severity to Store	The lowest severity for which tickets are created. (For example, if you select <b>Medium</b> severity, the integration creates a ticket of severity Medium, High, and Critical.	yes
Sync Since	If provided, the integration pulls historic data from that time. The maximum allowed past date is one month.	yes
Asset Tags	(Required if Tags are provided) Tickets are only created for assets which include the provided tag.	yes
Default Assignee	If selected, all the tickets are assigned to the selected user. If not selected, the Tenable for Jira Cloud user	yes

	who configured the integration is used by default.	
Select Project	You can create a project by providing a unique name or by selecting a project already created in Tenable for Jira Cloud, By default, this integration uses the <b>Business</b> project in Tenable for Jira Cloud. For more information about project types, see <u>Product</u> <u>Features and Project Types</u> in the Atlassian documentation.	yes
	<b>Note:</b> This integration supports classic (Company- managed) Jira projects, You must create a Company- managed project and select that project in this field.	
Default Reporter	If selected, the selected user is used as the default reporter on all tickets, If not provided, the Tenable for Jira Cloud user who configured the integration is used by default.	yes
	<b>Note:</b> You must have appropriate permissions to assign the default reporter. If not, the Default Reporter is not assigned.	
Project Lead	The lead user for the project.	yes
Group by	You can group tickets by either Asset or Vulnerability.	yes

9. Click **Save** to complete the setup.

### What to do next:

Tenable for Jira Cloud creates a "Tenable Vulnerability Workflow" to manage the transition of the Jira tickets. It may take several minutes to setup projects and custom fields in Tenable for Jira Cloud. Details are refreshed on-screen once they are created. As soon as the configuration is saved, Tenable for Jira Cloud starts listening to new findings discovered by the scans, providing near real-time vulnerability data into Tenable for Jira Cloud. When Tenable for Jira Cloud starts creating tickets, the **Waiting for ticket creation on Jira instance** notification banner is removed.

Next, Tenable for Jira Cloud fetches metrics and shows them on the Tenable for Jira Cloud dashboard, as shown in the following image:

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Ctenable Vulnerability Management			¢ې 👪 📭
← Back to Vulnerability Management Settings			
Jira Cloud - Vulnerability     Management Create and assign tickets for your findings	Jira Cloud – V Statistics Tickets Created 29 29 Open Tickets by Severity Critical: 2 High: 0 Medium:	<b>Unerability Management</b> Crossed Tickets - <b>2</b>	Edil Delete
	Vulnerability Management Co	nfiguration	
	Jira Address	tenb.atlassian.net	
	Lowest Severity to Store	Low	
	Jira Project	ASHOKA - ASHO	
	Default Assignee	Rishabh Prashar	
	Project Lead	Rishabh Prashar	
	Group by	Vulnerabilities	

# **Custom Fields and Filters Created in JIRA**

Custom fields are created when Tenable for Jira Cloud is installed. Custom field types are either editable **text area** or non-editable **read-only field**. You can also create filters with the custom fields created in Tenable for Jira Cloud.

Note: There may be conflict if a custom field is created manually or as part of another plugin.

**Note:** While configuring Tenable Vulnerability Management or Tenable Security Center for Jira, if you select **Asset** in the **Group By** drop-down, several fields (Tenable Port, Tenable Protocol, Tenable First Found, Tenable Last Fixed, and Tenable State) are moved from the **Vulnerable Host** issue type to the **Vulnerability** issue type, while the Tenable Severity field is removed from the **Vulnerable Host** issue type.

**Note:** The Jira Cloud integration does not support pre-configured Custom Fields, Issue Types, or Issue Type Schemes with the prefix Tenable. Delete these, then set up the integration again.

#### Vulnerability

Field Name	Туре	Definition
Tenable BID	text area	The Bugtraq ID for the plugin that identified the vulnerability.
Tenable CVE	text area	The Common Vulnerability and Exposure (CVE) ID for the plugin.
Tenable CVSSv3 Base Score	read-only field	The CVSSv3 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).
Tenable CVSSv3 Temporal Score	read-only field	The CVSSv3 temporal score (characteristics of a vulnerability that change over time, but not among user environments).
Tenable CVSSv2 Base Score	read-only field	The CVSSv2 base score (intrinsic and fundamental characteristics of a vulnerability that are constant over time and user environments).
Tenable CVSSv2	read-only	The CVSSv2 temporal score (characteristics of a

Temporal Score	field	vulnerability that change over time but not among user environments).
Tenable plugin Family	read-only field	The family of the plugin that identified the vulnerability. For more information about plugin families, see <u>https://www.tenable.com/plugins</u> .
Tenable plugin ID	read-only field	The ID of the plugin that identified the vulnerability.
Tenable MS Bulletin	read-only field	The Microsoft security bulletin that the plugin covers.
Tenable Vulnerability Title	read-only field	The name of the plugin that identified the vulnerability.
Tenable Solution	read-only field	Remediation information for the vulnerability.
Tenable Severity	read-only field	The code for the severity originally assigned to a vulnerability before a user recasts the risk associated with the vulnerability.
Tenable Source	read-only field	Determines if the application is connected to Tenable Vulnerability Management or Tenable Security Center.
Tenable Short Description	read-only field	A short description of the plugin.
Tenable VPR Scores	read-only field	VPR is a dynamic companion to the data provided by the vulnerability's CVSS score. Values range from 0.1 to 10.0, with a higher value representing a higher likelihood of exploit.

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### Vulnerable Host

Field Name	Туре	Definition
Tenable Agent UUID	read-only field	The UUID of the agent that performed the scan where the

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		vulnerability was found.
Tenable Device Type	read-only field	The type of asset where the vulnerability was found.
Tenable FQDN	read-only field	The fully qualified domain name of the asset where a scan found the vulnerability.
Tenable Hostname	read-only field	The hostname of the asset where a scan found the vulnerability.
Tenable Asset UUID	read-only field	The UUID of the asset where a scan found the vulnerability.
Tenable IPv4	read-only field	The IPv4 address of the asset where a scan found the vulnerability.
Tenable IPv6	read-only field	The IPv6 address of the asset where a scan found the vulnerability.
Tenable MAC Address	read-only field	The MAC address of the asset where a scan found the vulnerability.
Tenable NetBIOS Name	read-only field	The NETBIOS name of the asset where a scan found the vulnerability.
Tenable Plugin Output	text area	The text output of the Nessus scanner.
Tenable Port	read-only field	The port the scanner used to communicate with the asset.
Tenable Protocol	read-only field	The protocol the scanner used to communicate with the asset.

Tenable Service	read-only field	The service the scanner used to communicate with the asset.
Tenable Severity	read-only field	The severity of the vulnerability as defined using the Common Vulnerability Scoring System (CVSS) base score. Possible values are:
		• info - The vulnerability has a CVSS score of 0.
		<ul> <li>low - The vulnerability has a CVSS score between 0.1 and 3.9.</li> </ul>
		<ul> <li>medium - The vulnerability has a CVSS score between 4.0 and 6.9.</li> </ul>
		<ul> <li>high - The vulnerability has a CVSS score between 7.0 and 9.9.</li> </ul>
		<ul> <li>critical - The vulnerability has a CVSS score of 10.0."</li> </ul>
Tenable First Found	read-only field	The date on which the vulnerability was first found on the asset.
Tenable Last Fixed	read-only field	The date on which the vulnerability was last fixed on the asset. Tenable Vulnerability Management updates the vulnerability state to fixed when

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		a scan no longer detects a previously detected vulnerability on the asset.
Tenable State	read-only field	The state of the vulnerability as determined by the Tenable Vulnerability Management state service. Possible values are:
		<ul> <li>open - The vulnerability is currently present on an asset.</li> </ul>
		<ul> <li>reopened - The vulnerability was previously marked as fixed on an asset, but detected again by a new scan.</li> </ul>
		<ul> <li>fixed - The vulnerability was present on an asset, but is no longer detected.</li> </ul>
Tenable Source	read-only field	Determines if the application is connected to Tenable Vulnerability Management or Tenable Security Center.

## Issue Types

- Tenable Vulnerability Host.
- Tenable Vulnerability

## Issue Type Scheme

Tenable Issue Type Scheme

## Edit the Configuration

Required User Role: Administrator

You can re-configure the Tenable for Jira Cloud integration.

To edit the configuration:

- 1. Log in to Tenable Vulnerability Management.
- 2. In the upper-left corner, click the  $\equiv$  button.

The left navigation plane appears.

3. In the left navigation plane, click Settings.

#### The Settings page appears:



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4. In the Integrations section, click the Jira Cloud tile.

The Jira Cloud - Vulnerability Management dashboard appears.

5. Click Edit.

<b>tenable</b> : Vulnerability Management			چ 🏭 👳
← Back to Vulnerability Management Settings			
Jira Cloud - Vulnerability     Management Create and assign tickets for your findings	Jira Cloud – V Statistics 29 Open Tickets 29 Criticat 2 High: 0 Medium: 2	ulnerability Management <sup>Closed Tickets</sup> - <sup>S</sup> Low: 2	Eett Delets
	Vulnerability Management Cor	figuration	
	Jira Address	tenb.atlassian.net	
	Lowest Severity to Store	Low	
	Jira Project	ASHOKA - ASHO	
	Default Assignee	Rishabh Prashar	
	Project Lead	rusnaon masnar	
	and by		

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## **Delete the Configuration**

Required User Role: Administrator

You can re-configure the Tenable for Jira Cloud integration.

To edit the configuration:

- 1. Log in to Tenable Vulnerability Management.
- 2. In the upper-left corner, click the  $\equiv$  button.

The left navigation plane appears.

3. In the left navigation plane, click Settings.

#### The Settings page appears:



4. In the Integrations section, click the Jira Cloud tile.

The Jira Cloud - Vulnerability Management dashboard appears.

#### 5. Click **Delete**.

<b>tenable</b> Vulnerability Management			ti 🗰 💌
← Back to Vulnerability Management Settings			
Jira Cloud - Vulnerability     Management Create and assign tickets for your findings	Jira Cloud – V Statistics 12dets Created 29 29 Open Tickets by Severity Critical: 2 High: 0 Medium: 24	ulnerability Management	Edit Debite
	vulnerability hanagement con	inguration	
	Jira Address	tenb.atlassian.net	
	Jira Project	ASHOKA - ASHO	
	Default Assignee	Rishabh Prashar	
	Project Lead	Rishabh Prashar	
	Group by	Vulnerabilities	

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