

# Users, groups and roles

## Overview

The **expression parser** offers multiple functions to manage user-, group- and role-related information.

## Available functions



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Function	Input	Returned value
<b>isInGroup</b> (string <b>user_name</b> , string <b>group_name</b> )	STRING	<p>Checks if a user is in a group. <b>BOOLEAN</b></p> <p>Argument <b>user_name</b> can also be a <b>comma separated list of user names, group names or role names</b>. In that case the function will return <b>true</b> only if <b>all users</b> in the list, groups of the list, and in the roles of the list, are in the group in the second argument.</p> <div><p><b>i</b> Example</p><p><code>isInGroup(%{...assignee}, "jira-developers")</code> returns true if <b>Assignee</b> in in group <b>jira-developers</b>.</p></div>
<b>isInRole</b> (string <b>user_name</b> , string <b>role_name</b> )	STRING	<p>Checks if a user or group of users plays a role in current project. <b>BOOLEAN</b></p> <p>Argument <b>user_name</b> can also be a <b>comma separated list of user names, group names or role names</b>. In that case the function will return <b>true</b> only if <b>all users</b> in the list, groups of the list, and in the roles of the list, are in project role in the second argument, for current project.</p> <div><p><b>i</b> Example</p><p><code>isInRole(%{...reporter}, "Testers")</code> returns true in <b>Reporter</b> is in project role <b>Testers</b>.</p></div>
<b>isInRole</b> (string <b>user_name</b> , string <b>role_name</b> , string <b>project_key</b> )	STRING	<p>Checks if a user or group of users plays a role in a certain project. <b>BOOLEAN</b></p> <p>Argument <b>user_name</b> can also be a <b>comma separated list of user names, group names or role names</b>. In that case the function will return <b>true</b> only if <b>all users</b> in the list, groups of the list, and in the roles of the list, are in role in the second argument, for the project in the third argument.</p> <div><p><b>i</b> Example</p><p><code>isInRole(%{...currentUser}, "Developers", "CRM")</code> returns true in <b>Current user</b> is in project role <b>Developers</b> in project with key <b>"CRM"</b>.</p></div>

<b>isActive</b> (string <b>user_name</b> )	STRING	<p>Checks if a user is active. BOOLEAN</p> <p>Argument <b>user_name</b> can also be a <b>comma separated list</b> of <b>user names</b>, <b>group names</b> or <b>role names</b>. In that case the function will return <b>true</b> only if <b>all users</b> in the list, groups of the list, and in the roles of the list, are active.</p> <div> <p><b>i</b> Example</p> <p><code>isActive(%{...componentLeads})</code> returns true if all users who are <b>component leaders</b> in current project are active.</p> </div>
<b>userFullName</b> (string <b>user_name</b> )	STRING	<p>Returns a STRING with the full name of the user in argument <b>user_name</b>.</p> <p>Argument <b>user_name</b> is a string with a user name, not to be confused with user full name.</p> <div> <p><b>i</b> Example</p> <p><code>userFullName(%{...currentUser})</code> returns the user's full name of current user.</p> </div>
<b>userFullName</b> (string list <b>user_names</b> )	STRING []	<p>Returns a STRING [] with the full names of the users in argument <b>user_names</b>.</p> <p>Argument <b>user_names</b> is a string list with user names, not to be confused with users full names.</p> <div> <p><b>i</b> Example</p> <p><code>userFullName(toStringList(%{...watchers}))</code> returns a list with the users full names of current issue's watchers.</p> </div>
<b>userEmail</b> (string <b>user_name</b> )	STRING	<p>Returns a STRING with the email of the user in argument <b>user_name</b>.</p> <p>Argument <b>user_name</b> is a string with a user name, not to be confused with user full name.</p> <div> <p><b>i</b> Example</p> <p><code>userEmail(%{...currentUser})</code> returns the email of current user.</p> </div>
<b>userEmail</b> (string list <b>user_names</b> )	STRING []	<p>Returns a STRING [] with the emails of the users in argument <b>user_names</b>.</p> <p>Argument <b>user_names</b> is a string list with a user names, not to be confused with users full names.</p> <div> <p><b>i</b> Example</p> <p><code>userEmail(toStringList(%{...watchers}))</code> returns a list with the emails of current issue's watchers.</p> </div>

<b>fullNameToUser</b> (string <b>fullName</b> )	STRING	Returns a <b>STRING</b> with the name of a user whose full name is equal to argument <b>fullName</b> .  Returned value is a string with a <b>user name</b> .
<b>usersWithEmail</b> (string <b>email</b> )	STRING	Returns a <b>STRING []</b> with the <b>user names</b> of those users with emails equal to argument <b>email</b> .  In case that only one user is expected, function <b>first</b> (string list) can be used to extract a string with its user name.
<b>userProperty</b> (string <b>propertyName</b> , string <b>userName</b> )	STRING	Returns the <b>STRING</b> value of the user property with name <b>propertyName</b> which belongs to user with user name <b>userName</b> .  If the user doesn't have the property, " " will be returned.
<b>userProperty</b> (string <b>propertyName</b> , string list <b>userNames</b> )	STRING	Returns the <b>STRING []</b> of values of the user property with name <b>propertyName</b> in all the users whose names are contained in <b>userNames</b> .  The output will contain as many strings as users have the property set.
<b>usersInRole</b> (string <b>projectRoleName</b> )	STRING	Returns the <b>STRING []</b> of <b>user names</b> (not be confused with <b>full user name</b> ) of those active users playing project role with name <b>projectRoleName</b> in current issue's project. Parameter <b>projectRoleName</b> can be a comma separated list of project role names, returning the users that play any of the project roles.
<b>usersInRole</b> (string <b>projectRoleName</b> , string <b>projectKey</b> )	STRING	Equivalent to the previous function that returns a <b>STRING []</b> with extra argument <b>projectKey</b> for selecting the project argument <b>projectRoleName</b> refers to.
<b>usersInGroup</b> (string <b>groupName</b> )	STRING	Returns the <b>STRING []</b> of <b>user names</b> of those active users in group with name <b>groupName</b> .  Parameter <b>groupName</b> can be a comma separated list of group names, returning the users that belong to any of the groups.
<b>rolesUserPlays</b> (string <b>userName</b> )	STRING	Returns the <b>STRING []</b> of <b>role names</b> of those project roles the user with name <b>userName</b> plays in current project.  Parameter <b>userName</b> can also be a comma separated list of <b>user names</b> , <b>group names</b> and <b>project role names</b> , returning the list of project roles for those users represented by input argument.
<b>rolesUserPlays</b> (string <b>userName</b> , string <b>projectKey</b> )	STRING	Returns the <b>STRING []</b> of <b>role names</b> of those project roles the user with name <b>userName</b> plays in project with key <b>projectKey</b> .  Parameter <b>userName</b> can also be a comma separated list of <b>user names</b> , <b>group names</b> and <b>project role names</b> , returning the list of project roles for those users represented by input argument.
<b>groupsUserBelongsTo</b> (string <b>userName</b> )	STRING	Returns the <b>STRING []</b> of <b>group names</b> of those groups the user with name <b>userName</b> belongs to.  Parameter <b>userName</b> can also be a comma separated list of <b>user names</b> , <b>group names</b> and <b>project role names</b> , returning the list of project roles for those users represented by input argument.
<b>defaultUserRole</b> (string <b>projectRoleName</b> )	STRING	Returns the <b>STRING</b> of the <b>user name</b> of the <b>Assign to project role</b> project role with name <b>projectRoleName</b> in current issue's project, or " " if no default user is defined for the project role.

<b>defaultUserForRole</b> (string <b>projectRoleName</b> , string <b>projectKey</b> )	STRING	Equivalent to the previous <b>STRING</b> function but with extra argument <b>projectKey</b> for selecting the project argument <b>projectRoleName</b> refers to.
<b>lastAssigneeInRole</b> (string <b>projectRoleName</b> )	STRING	Returns the <b>STRING</b> of <b>user name</b> of the last user who had current issue assigned, and currently plays project role with name <b>projectRoleName</b> in current issue's project, or "" if current issue was never assigned to a user currently in the project role.
<b>lastAssigneeInRole</b> (string <b>projectRoleName</b> , string <b>issueKey</b> )	STRING	Returns the <b>STRING</b> of <b>user name</b> of the last user who had issue with key <b>issueKey</b> assigned, and currently plays project role with name <b>projectRoleName</b> in current issue's project, or null if current issue was never assigned to a user currently in the project role.
<b>leastBusyUserInRole</b> (string <b>projectRoleName</b> )	STRING	<p>Returns the name of the active user playing project role with name <b>projectRoleName</b> in current issue's project, and has the lower number of issues with resolution empty assigned; or "" if there isn't any user in the project role. Parameter <b>projectRoleName</b> can be a comma separated list of project role names, returning the least busy users among the project roles.</p> <div>  <b>Example</b> <pre>leastBusyUserInRole("Developers")</pre> <p>returns the <b>STRING</b> user playing role <b>Developers</b> in current project with the least number of unresolved issues in all the Jira instance assigned.</p> </div>
<b>leastBusyUserInRole</b> (string <b>projectRoleName</b> , string <b>projectKey</b> )	STRING	<p>Equivalent to the previous function but with extra argument <b>projectKey</b> for selecting the project argument <b>projectRoleName</b> refers to.</p> <p>Example: <code>leastBusyUserInRole("Developers", "CRM")</code> returns <b>STRING</b> of the user playing role <b>Developers</b> in project with key <b>CRM</b> with the least number of unresolved issues in all the Jira instance assigned.</p>
<b>leastBusyUserInRole</b> (string <b>projectRoleName</b> , string <b>projectKey</b> , string <b>jqQuery</b> )	STRING	<p>Equivalent to the previous function but with extra argument <b>jqQuery</b>, used for restricting the issues to be considered to pick the least busy user as a <b>STRING</b>.</p> <div>  <b>Example</b> <pre>leastBusyUserInRole("Developers", % {...projectKey}, "project = " + %{... projectKey})</pre> <p>returns the user playing role <b>Developers</b> in current project, with the least number of unresolved issues in current project assigned.</p> </div>

<b>nextUserInGroup</b> (string <b>groupName</b> , string <b>queueName</b> )	<div>STRING</div>	<p>Returns the <div>STRING</div> name of the next active user in group with name <b>groupName</b>, for a round-robin queue with name <b>queueName</b>.</p> <p>The string <b>queueName</b> is an arbitrary name. The queue is automatically created the first time a queue is used in a function call. Each time the function is called on the same pair of arguments (<b>group</b>, <b>queue</b>) , a different user in the group is returned. The queue can be used in different transitions of the same or different workflows within the same Jira instance. <b>null</b> is returned if <b>group</b> is empty.</p> <div> <div></div> <div> <b>Example</b> <p><code>nextUserInGroup("jira-developers", "code-review-queue")</code> returns the username of the next user in group <b>jira-developers</b> for round-robin queue <b>code-review-queue</b>. Each time the function is called with the same pair of arguments, a different username is returned.</p> </div> </div>
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