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Permissions

A permission is an action and a scope. When creating a fine-grained access control, consider what specific action a user should be allowed to perform, and on what resources (its scope).

To grant permissions to a user, you create a built-in role assignment to map a role to a built-in role. A built-in role assignment *modifies* to one of the existing built-in roles in Grafana (Viewer, Editor, Admin). For more information, refer to [Built-in role assignments]({{< relref “./roles.md#built-in-role-assignments” >}}).

To learn more about which permissions are used for which resources, refer to [Resources with fine-grained permissions]({{< relref “./_index.md#resources-with-fine-grained-permissions” >}}).

action The specific action on a resource defines what a user is allowed to perform if they have permission with the relevant action assigned to it.

scope The scope describes where an action can be performed, such as reading a specific user profile. In such case, a permission is associated with the scope `users:<userId>` to the relevant role.

Action definitions

The following list contains fine-grained access control actions.

Action	Applicable scope	Description
<code>roles:list</code>	<code>roles:*</code>	List available roles without permissions.
<code>roles:read</code>	<code>roles:*</code> <code>roles:uid:*</code>	Read a specific role with its permissions.
<code>roles:write</code>	<code>permissions:delegate</code>	Create or update a custom role.
<code>roles:delete</code>	<code>permissions:delegate</code>	Delete a custom role.
<code>roles.builtins:list</code>	<code>roles:list</code>	List built-in role assignments.
<code>roles.builtins:create</code>	<code>permissions:delegate</code>	Create a built-in role assignment.
<code>roles.builtins:delete</code>	<code>permissions:delegate</code>	Delete a built-in role assignment.
<code>reports.admin:create</code>	<code>admin:create</code>	Create reports.
<code>reports.admin:update</code>	<code>reports:update</code>	Update reports.
<code>reports.delete</code>	<code>reports:id:*</code>	Delete reports.
<code>reports.read</code>	<code>reports:*</code>	List all available reports or get a specific report.
<code>reports.send</code>	<code>reports:*</code>	Send a report email.

Action	Applicable scope	Description
reports.settings:write	settings:write	Update report settings.
reports.settings:read	settings:read	Read report settings.
provisioning.reloaders:*	provisioners:*	Reload provisioning files. To find the exact scope for specific provisioner, see Scope definitions({{< relref "/permissions.md#scope-definitions">}}).
teams.roles:list	teams:roles	List roles assigned directly to a team.
teams.roles:permissions:delegate	teams:roles:permissions:delegate	Assign a role to a team.
teams.roles:permissions:undelegate	teams:roles:permissions:undelegate	Unassign a role from a team.
users.read:global.users:*	global.users:*	Read or search user profiles.
users.write:global.users:*	global.users:*	Update a user's profile.
users.read:global.users:id:*	global.users:id:*	
users.teams:global.users:*	global.users:*	Read a user's teams.
users.read:global.users:id:*	global.users:id:*	
users.authentication:tokens:list	global.users:tokens	List authentication tokens that are assigned to a user.
users.authentication:tokens:update	global.users:tokens	Update authentication tokens that are assigned to a user.
users.password:global.users:*	global.users:*	Update a user's password.
users.password:global.users:id:*	global.users:id:*	
users.delete:global.users:*	global.users:*	Delete a user.
users.delete:global.users:id:*	global.users:id:*	
users.create	global.users	Create a user.
users.enable:global.users:*	global.users:*	Enable a user.
users.enable:global.users:id:*	global.users:id:*	
users.disable:global.users:*	global.users:*	Disable a user.
users.disable:global.users:id:*	global.users:id:*	
users.permissions:global.users:update	global.users:update	Update a user's organization-level permissions.
users.permissions:global.users:id:*	global.users:id:*	
users.logout:global.users:*	global.users:*	Sign out a user.
users.logout:global.users:id:*	global.users:id:*	
users.quotas:list	global.users:quotas	List a user's quotas.
users.quotas:global.users:id:*	global.users:id:*	
users.quotas:update	global.users:quotas	Update a user's quotas.
users.quotas:global.users:id:*	global.users:id:*	
users.roles:list	users:roles	List roles assigned directly to a user.
users.roles:permissions:delegate	users:roles:permissions:delegate	Assign a role to a user.
users.roles:permissions:undelegate	users:roles:permissions:undelegate	Unassign a role from a user.
users.permissions:list	users:permissions	List permissions of a user.
org.users.read:* users:id:*	org.users:read	Get user profiles within an organization.
org.users.add:*	org.users:add	Add a user to an organization.
org.users.remove:* users:id:*	org.users:remove	Remove a user from an organization.

Action	Applicable scope	Description
org.users:role:update	orgs:id:*	Update the organization role (Viewer , Editor , or Admin) of an organization.
orgs:read	orgs:* orgs:id:*	Read one or more organizations.
orgs:write	orgs:* orgs:id:*	Update one or more organizations.
org:create	a/a	Create an organization.
orgs:delete	orgs:* orgs:id:*	Delete one or more organizations.
orgs.quotas:read	orgs:id:*	Read organization quotas.
orgs.quotas:write	orgs:id:*	Update organization quotas.
orgs.preferences:read	orgs:orgid:*	Read organization preferences.
orgs.preferences:write	orgs:orgid:*	Update organization preferences.
ldap.user/read	/	Read users via LDAP.
ldap.user/sync	/	Sync users via LDAP.
ldap.status/read	/	Verify the availability of the LDAP server or servers.
ldap.config/reload	/	Reload the LDAP configuration.
status:access-control	/	Get access-control enabled status.
settings:read	settings:* settings:auth (property level)	Read the Grafana authentication enabled settings[({{< relref “../administration/configuration/_index.md” >}})]
settings:write	settings:* settings:auth (property level)	Update Grafana authentication enabled settings that can be [updated at runtime]({{< relref “../enterprise/settings-updates/_index.md” >}}).
server.status/read	/	Read Grafana instance statistics.
datasources/explore	/	Enable access to the Explore tab.
datasources/read	datasources:* datasources:uid:*	Read datasources .
datasources/query	datasources:* datasources:uid:*	Query datasources .
datasources:read	datasources:* datasources:uid:*	Read datasources .
datasources:create	datasources:* datasources:uid:*	Create data sources.
datasources:delete	datasources:* datasources:uid:*	Delete data sources.
datasources:delete	datasources:id:* datasources:uid:*	Delete datasources .
datasources:permissions:read	datasources:id:* datasources:uid:*	Read data source permissions.
datasources:permissions:write	datasources:id:* datasources:uid:*	Update data source permissions.
licensing/read	/	Read licensing information.
licensing/update	/	Update the license token.
licensing/delete	/	Delete the license token.
licensing/reports:read	/	Get custom permission reports.
teams:create	/	Create teams.
teams:read	teams:* teams:id:*	Read one or more teams and team preferences.
teams:write	teams:* teams:id:*	Update one or more teams and team preferences.
teams:delete	teams:* teams:id:*	Delete one or more teams.

Action	Applicable scope	Description
teams.permissions:read	teams:permissions:read	Read members and External Group Synchronization setup for teams.
teams.permissions:write	teams:permissions:write	Add, remove and update members and manage External Group Synchronization setup for teams.
dashboards:read	dashboards:*dashboards	Read one or more dashboards.
dashboards:create	dashboards:*dashboards	Create dashboards in one or more folders.
dashboards:update	dashboards:*dashboards	Update one or more dashboards.
dashboards:delete	dashboards:*dashboards	Delete one or more dashboards.
dashboards:permissions:read	dashboards:*dashboards	Read permissions for one or more dashboards.
dashboards:permissions:write	dashboards:*dashboards	Update permissions for one or more dashboards.
folders:read	folders:*folders	Read one or more folders.
folders:create	folders:*folders	Create folders.
folders:update	folders:*folders	Update one or more folders.
folders:delete	folders:*folders	Delete one or more folders.
folders:permissions:read	folders:*folders	Read permissions for one or more folders.
folders:permissions:write	folders:*folders	Update permissions for one or more folders.
annotations:read	annotations:*annotations	Read one or more annotations and annotation tags.
annotations:create	annotations:*annotations	Create annotations.
annotations:update	annotations:*annotations	Update annotations.
annotations:delete	annotations:*annotations	Delete annotations.

Scope definitions

The following list contains fine-grained access control scopes.

Scopes	Descriptions
permissions:delegate	The scope is only applicable for roles associated with the Access Control itself and indicates that you can delegate your permissions only, or a subset of it, by creating a new role or making an assignment.
roles:*	Restrict an action to a set of roles. For example, <code>roles:*</code> matches any role and <code>roles:uid:randomuid</code> matches only the role whose UID is <code>randomuid</code> .
reports:*	Restrict an action to a set of reports. For example, <code>reports:*</code> matches any report and <code>reports:id:1</code> matches the report whose ID is 1.

Scopes	Descriptions
<code>services:accesscontrol</code>	Restrict an action to target only the fine-grained access control service. You can use this in conjunction with the <code>status:accesscontrol</code> actions.
<code>global.users:*</code>	Restrict an action to a set of global users. For example, <code>global.users:*</code> matches any user and
<code>global.users:id:*</code>	<code>global.users:id:1</code> matches the user whose ID is 1.
<code>teams:*</code>	Restrict an action to a set of teams from an organization. For example, <code>teams:*</code> matches any team and
<code>teams:id:*</code>	<code>teams:id:1</code> matches the team whose ID is 1.
<code>users:*</code>	Restrict an action to a set of users from an organization. For example, <code>users:*</code> matches any user and <code>users:id:1</code>
<code>users:id:*</code>	matches the user whose ID is 1.
<code>orgs:*</code>	Restrict an action to a set of organizations. For example, <code>orgs:*</code> matches any organization and <code>orgs:id:1</code>
<code>orgs:id:*</code>	matches the organization whose ID is 1.
<code>settings:*</code>	Restrict an action to a subset of settings. For example, <code>settings:*</code> matches all settings, <code>settings:auth.saml:*</code> matches all SAML settings, and <code>settings:auth.saml:enabled</code> matches the enable property on the SAML settings.
<code>provisioners:*</code>	Restrict an action to a set of provisioners. For example, <code>provisioners:*</code> matches any provisioner, and <code>provisioners:accesscontrol</code> matches the fine-grained access control [provisioner]({{< relref “./provisioning.md” >}}).
<code>datasources:*</code>	Restrict an action to a set of data sources. For example, <code>datasources:*</code> matches any data source, and <code>datasources:name:postgres</code> matches the data source named <code>postgres</code> .
<code>folders:*</code>	Restrict an action to a set of folders. For example, <code>folders:*</code> matches any folder, and <code>folders:id:1</code> matches the folder whose ID is 1.
<code>dashboards:*</code>	Restrict an action to a set of dashboards. For example, <code>dashboards:*</code> matches any dashboard, and <code>dashboards:id:1</code> matches the dashboard whose ID is 1.
<code>annotations:*</code>	Restrict an action to a set of annotations. For example, <code>annotations:*</code> matches any annotation, <code>annotations:type:dashboard</code> matches annotations associated with dashboards and <code>annotations:type:organization</code> matches organization annotations.