

ZABBIX

6.0

WORKSHOP  
WEEK

SECURING YOUR ZABBIX  
INSTANCE WITH USER ROLES,  
PERMISSIONS AND PASSWORD  
COMPLEXITY REQUIREMENTS



# 01

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## PERMISSIONS GRANULARITY



# PERMISSION GRANULARITY

## Network Operation Center team roles:

- ✓ Access to Dashboards and Maps
- ✓ Access to Problems, Latest Data, Hosts
- ✓ No access to Configurations
- ✓ No access to Administration Section
- ✓ Restrict access to the API
- ✓ Cannot close problems

## Network Administrators role:

- ✓ Access to Dashboards and Maps
- ✓ Access to Problems, Latest Data, Hosts
- ✓ Access to Configurations
- ✓ No access to Administration Section
- ✓ Restrict access to the API
- ✓ Is allowed to close problems

# PERMISSION GRANULARITY AND MULTI-TENANCY

**Granular permission is a key factor for multi-tenant environments:**

- ✓ Each tenant can have different monitoring requirements
- ✓ Singular and isolated view of their requirements
- ✓ Restricted access to elements per tenant
- ✓ Cleaner and more intuitive User Experience



# 02

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## USER ROLES AND USER TYPES





# USER ROLES

By default we have four user roles :

- ✓ Super Admin Role
- ✓ Admin Role
- ✓ User Role
- ✓ Guest Role

<input type="checkbox"/> Name ▲	#	Users
<input type="checkbox"/> Admin role	Users 1	<a href="#">Tenant Admin</a>
<input type="checkbox"/> Guest role	Users 1	<a href="#">guest</a>
<input checked="" type="checkbox"/> Super admin role	Users 1	<a href="#">Admin (Zabbix Administrator)</a>
<input type="checkbox"/> User role	Users 3	<a href="#">f.gump (Forrest Gump)</a> , <a href="#">j.snow (John Snow)</a> , <a href="#">Victor</a>

Displaying 4 of 4 found

# SUPER ADMIN ROLE

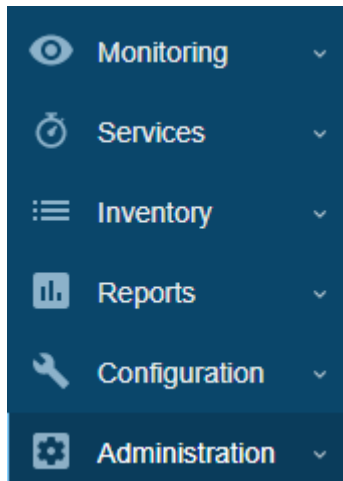
- ❑ Cannot be modified
- ❑ At least a single Super admin role must exist in your environment
- ❑ New roles of the type “Super Admin” can be modified

<input type="checkbox"/> Name ▲	#	Users
<input type="checkbox"/> Admin role	Users 1	<a href="#">Tenant Admin</a>
<input type="checkbox"/> Guest role	Users 1	<a href="#">guest</a>
<input type="checkbox"/> Super admin role	Users 1	<a href="#">Admin (Zabbix Administrator)</a>
<input type="checkbox"/> User role	Users 3	<a href="#">f.gump (Forrest Gump)</a> , <a href="#">j.snow (John Snow)</a> , <a href="#">Victor</a>

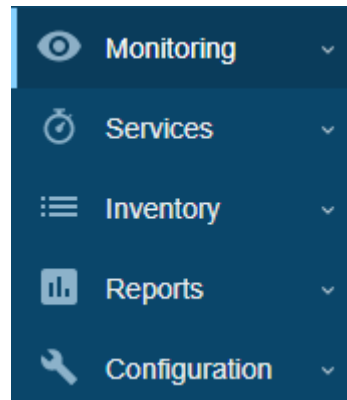
# USER TYPES

Zabbix has three user types:

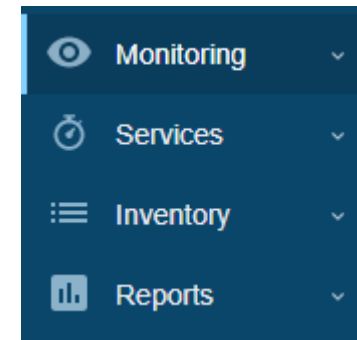
Super admin User



Admin user



User





# USER ROLES SECTION

- ④ Each role have maximum allowed access per user type

\* Name

User type

Access to UI elements

Monitoring	<input checked="" type="checkbox"/> Dashboard	<input checked="" type="checkbox"/> Problems	<input checked="" type="checkbox"/> Hosts
	<input checked="" type="checkbox"/> Latest data	<input checked="" type="checkbox"/> Maps	<input checked="" type="checkbox"/> Discovery
Services	<input checked="" type="checkbox"/> Services	<input checked="" type="checkbox"/> Service actions	<input checked="" type="checkbox"/> SLA
	<input checked="" type="checkbox"/> SLA report		
Inventory	<input checked="" type="checkbox"/> Overview	<input checked="" type="checkbox"/> Hosts	
Reports	<input type="checkbox"/> System information	<input checked="" type="checkbox"/> Availability report	<input checked="" type="checkbox"/> Triggers top 100
	<input type="checkbox"/> Audit	<input type="checkbox"/> Action log	<input checked="" type="checkbox"/> Notifications
	<input checked="" type="checkbox"/> Scheduled reports		
Configuration	<input checked="" type="checkbox"/> Host groups	<input checked="" type="checkbox"/> Templates	<input checked="" type="checkbox"/> Hosts
	<input checked="" type="checkbox"/> Maintenance	<input checked="" type="checkbox"/> Actions	<input type="checkbox"/> Event correlation
	<input checked="" type="checkbox"/> Discovery		
Administration	<input type="checkbox"/> General	<input type="checkbox"/> Proxies	<input type="checkbox"/> Authentication
	<input type="checkbox"/> User groups	<input type="checkbox"/> User roles	<input type="checkbox"/> Users
	<input type="checkbox"/> Media types	<input type="checkbox"/> Scripts	<input type="checkbox"/> Queue

\* At least one UI element must be checked.

Default access to new UI elements ☒

\* Name

User type

Access to UI elements

Monitoring	<input checked="" type="checkbox"/> Dashboard	<input checked="" type="checkbox"/> Problems	<input checked="" type="checkbox"/> Hosts
	<input checked="" type="checkbox"/> Latest data	<input checked="" type="checkbox"/> Maps	<input type="checkbox"/> Discovery
Services	<input checked="" type="checkbox"/> Services	<input type="checkbox"/> Service actions	<input type="checkbox"/> SLA
	<input checked="" type="checkbox"/> SLA report		
Inventory	<input checked="" type="checkbox"/> Overview	<input checked="" type="checkbox"/> Hosts	
Reports	<input type="checkbox"/> System information	<input checked="" type="checkbox"/> Availability report	<input checked="" type="checkbox"/> Triggers top 100
	<input type="checkbox"/> Audit	<input type="checkbox"/> Action log	<input type="checkbox"/> Notifications
	<input type="checkbox"/> Scheduled reports		
Configuration	<input type="checkbox"/> Host groups	<input type="checkbox"/> Templates	<input type="checkbox"/> Hosts
	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Actions	<input type="checkbox"/> Event correlation
	<input type="checkbox"/> Discovery		
Administration	<input type="checkbox"/> General	<input type="checkbox"/> Proxies	<input type="checkbox"/> Authentication
	<input type="checkbox"/> User groups	<input type="checkbox"/> User roles	<input type="checkbox"/> Users
	<input type="checkbox"/> Media types	<input type="checkbox"/> Scripts	<input type="checkbox"/> Queue

\* At least one UI element must be checked.

Default access to new UI elements ☒

# UI ELEMENTS RESTRICTION

## The Role

\* Name

User type

Access to UI elements

Monitoring	<input checked="" type="checkbox"/> Dashboard	<input checked="" type="checkbox"/> Problems	<input type="checkbox"/> Hosts
	<input type="checkbox"/> Latest data	<input type="checkbox"/> Maps	<input type="checkbox"/> Discovery
Services	<input type="checkbox"/> Services	<input type="checkbox"/> Service actions	<input type="checkbox"/> SLA
	<input type="checkbox"/> SLA report		
Inventory	<input type="checkbox"/> Overview	<input type="checkbox"/> Hosts	
Reports	<input type="checkbox"/> System information	<input type="checkbox"/> Availability report	<input type="checkbox"/> Triggers top 100
	<input type="checkbox"/> Audit	<input type="checkbox"/> Action log	<input type="checkbox"/> Notifications
	<input type="checkbox"/> Scheduled reports		
Configuration	<input type="checkbox"/> Host groups	<input type="checkbox"/> Templates	<input type="checkbox"/> Hosts
	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Actions	<input type="checkbox"/> Event correlation
	<input type="checkbox"/> Discovery		
Administration	<input type="checkbox"/> General	<input type="checkbox"/> Proxies	<input type="checkbox"/> Authentication
	<input type="checkbox"/> User groups	<input type="checkbox"/> User roles	<input type="checkbox"/> Users
	<input type="checkbox"/> Media types	<input type="checkbox"/> Scripts	<input type="checkbox"/> Queue

\* At least one UI element must be checked.

Default access to new UI elements ☒

## User assigned to Role

\* Role

User type

Permissions

Host group	Permissions
All groups	None

Permissions can be assigned for user groups only.

Access to UI elements

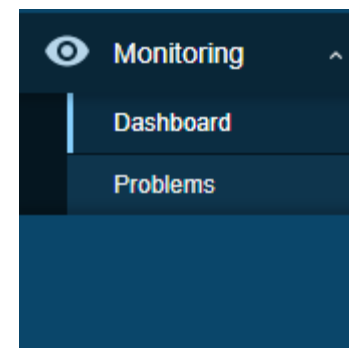
Monitoring	Dashboard	Problems	Hosts	Latest data	Maps
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Services

Inventory

Reports

## Elements User can access on Frontend



# 03

## PERMISSIONS

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# WHAT ABOUT PERMISSION?

- ✓ Access to hosts data is granted to User Groups
- ✓ User group is granted access to a Host Group

User groupPermissionsTag filter

Permissions

Host group

All groups

Application Servers

Linux servers

Network devices

Riga Servers

Permissions

None

Read-write

Read

Deny

None

Read-write

Read

Deny

None

Read-write

Read

Deny

None

Read-write

Read

Deny

None

type here to search

Select

Read-write

Read

Deny

None

☐ Include subgroups

Add

Add

Cancel

# 04

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## CUSTOM ZABBIX PASSWORD COMPLEXITY REQUIREMENTS



# CUSTOM PASSWORD POLICIES

New feature in Zabbix to create custom password policies:

- ✓ Minimum password length
- ✓ Define requirements
  - ✓ an uppercase and a lowercase Latin letter
  - ✓ a digit
  - ✓ a special character
- ✓ Avoid easy-to-guess passwords

## Authentication

The screenshot shows the 'Authentication' settings page in Zabbix. It has tabs for 'Authentication', 'HTTP settings', 'LDAP settings', and 'SAML settings'. Under 'Authentication', there are two buttons for 'Default authentication': 'Internal' (selected) and 'LDAP'. Below this is the 'Password policy' section, which includes a 'Minimum password length' input field set to '8'. There are three checkboxes for 'Password must contain': 'an uppercase and a lowercase Latin letter', 'a digit', and 'a special character', all of which are currently unchecked. At the bottom, there is a checkbox for 'Avoid easy-to-guess passwords' which is checked. An 'Update' button is located at the bottom right of the form.

Authentication	HTTP settings	LDAP settings	SAML settings
Default authentication: Internal (selected), LDAP			
Password policy			
Minimum password length: 8			
Password must contain: <input type="checkbox"/> an uppercase and a lowercase Latin letter			
<input type="checkbox"/> a digit			
<input type="checkbox"/> a special character			
Avoid easy-to-guess passwords: <input checked="" type="checkbox"/>			
Update			

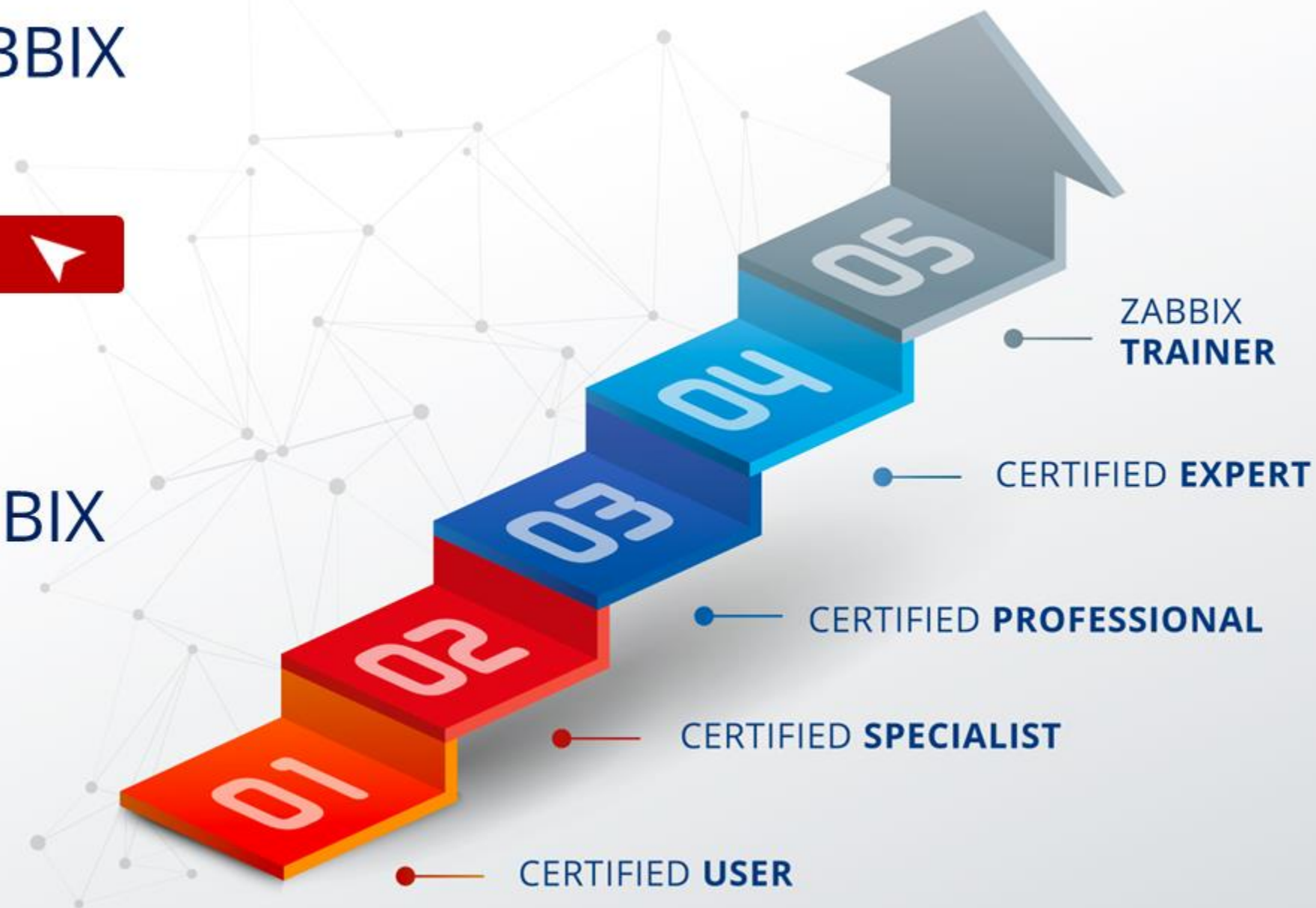


# BECOME ZABBIX CERTIFIED!

Training schedule ➤

# ATTEND ZABBIX TRAINING COURSES!

Apply now ➤





# AVAILABLE TRAINING COURSES

Zabbix offers 4 standard training courses. Each course is designed for a particular type of user:



# AVAILABLE EXTRA TRAINING COURSES

At the moment, Zabbix offers four Extra training courses. It is possible to choose one or several classes to study the features you require working with Zabbix professionally.

## Automation and Integration with Zabbix API

The course is designed to provide a detailed and in-depth study of Zabbix API functionality - like import host groups, generate reports, or integrate with other systems.

1 day

Requirements  
None

## Advanced Zabbix Data Pre-processing

The course will cover how to extract and transform information from different sources using Zabbix built-in functionality - without using external tools or scripts.

1 day

Requirements  
None

## Advanced Zabbix Security Administration

The course will cover how to protect Zabbix internal communications and secure sensitive information like user credentials or encryption keys.

1 day

Requirements  
None

## Advanced Problem and Anomaly Detection with Zabbix

The course is fully dedicated to problem detection, from creating simple triggers to using new long-term analytics functions.

1 day

Requirements  
None

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Thank you

[www.zabbix.com](http://www.zabbix.com)

