

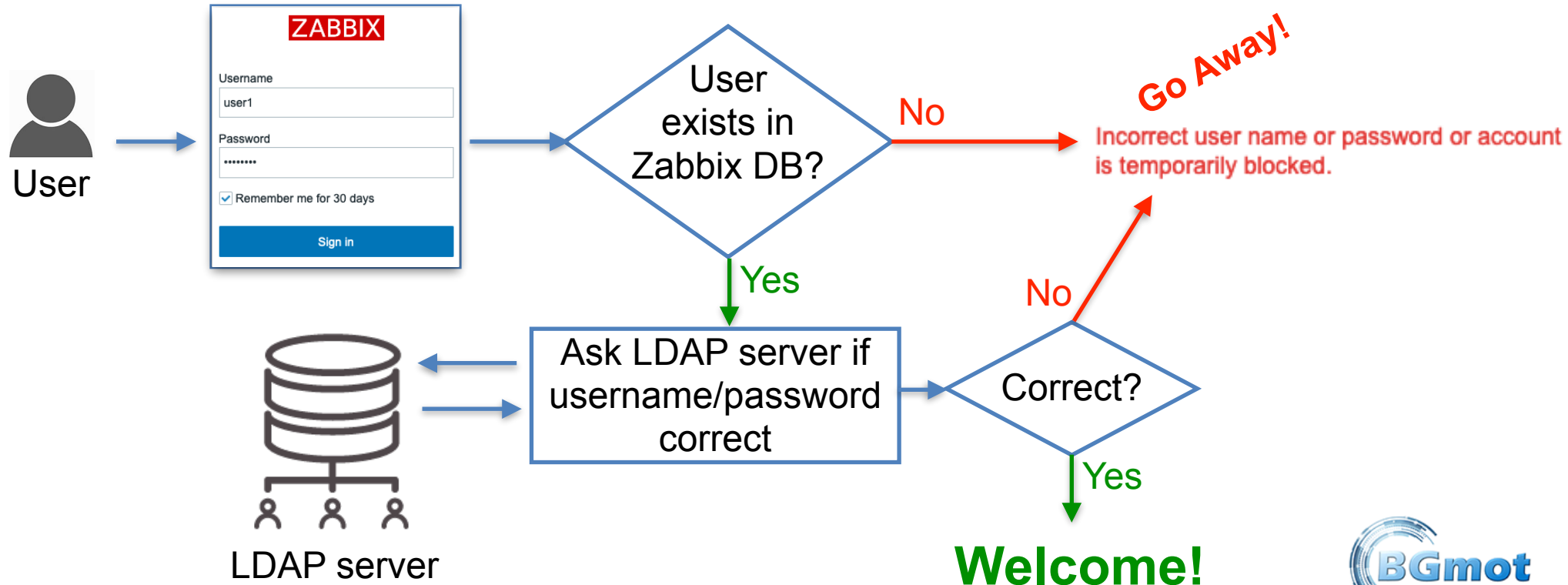
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Problem statement - current state



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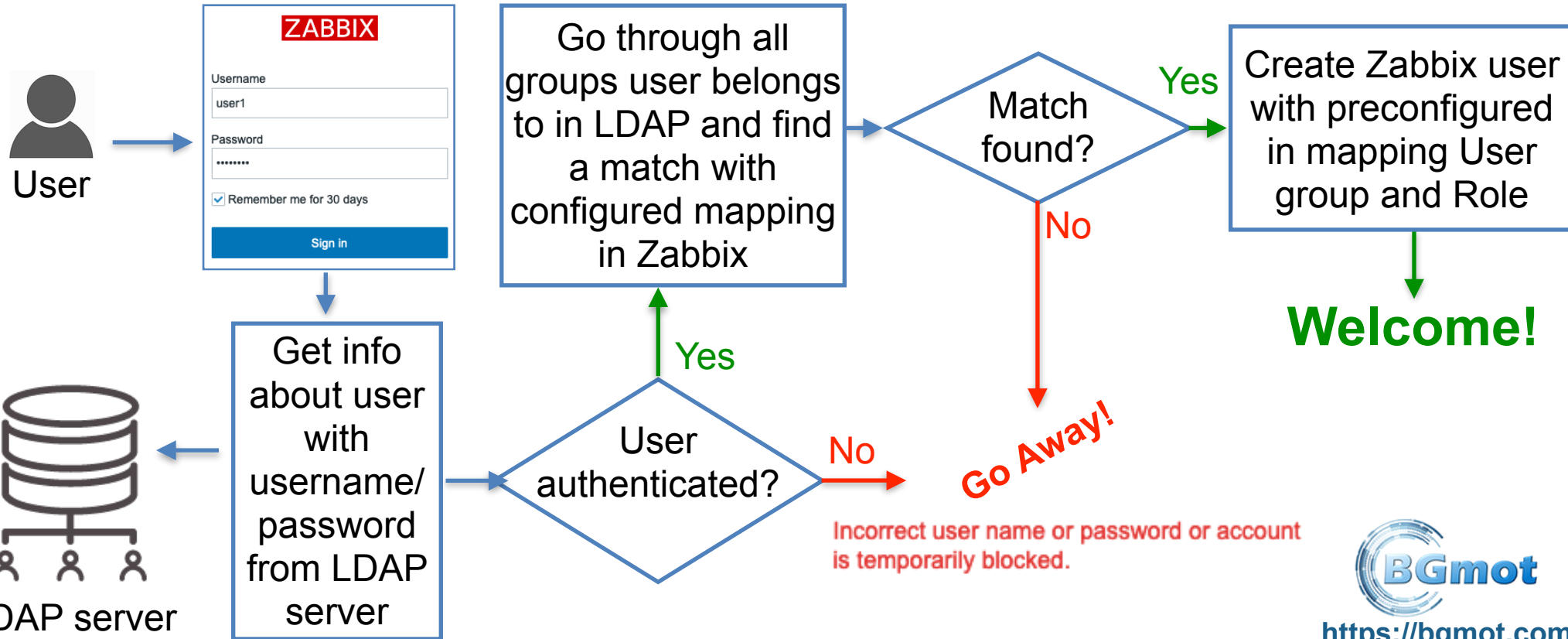
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JIT enabled - New since 6.4!



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Set up for this presentation

Containers on publicly available images:

IMAGE	NAMES	
osixia/phpldapadmin:0.9.0	phpldapadmin	# Optional - WebUI for OpenLDAP server
bgmot42/openldap-server:0.1.1	openldap-server	# Pre-configured OpenLDAP server

Zabbix containers on images built off feature branch:

IMAGE	NAMES
zabbix-web-nginx-pgsql:ubuntu-6.4	zabbix-docker_zabbix-web-nginx-pgsql_1
zabbix-server-pgsql:ubuntu-6.4	zabbix-docker_zabbix-server_1
postgres:13-alpine	zabbix-docker_postgres-server_1



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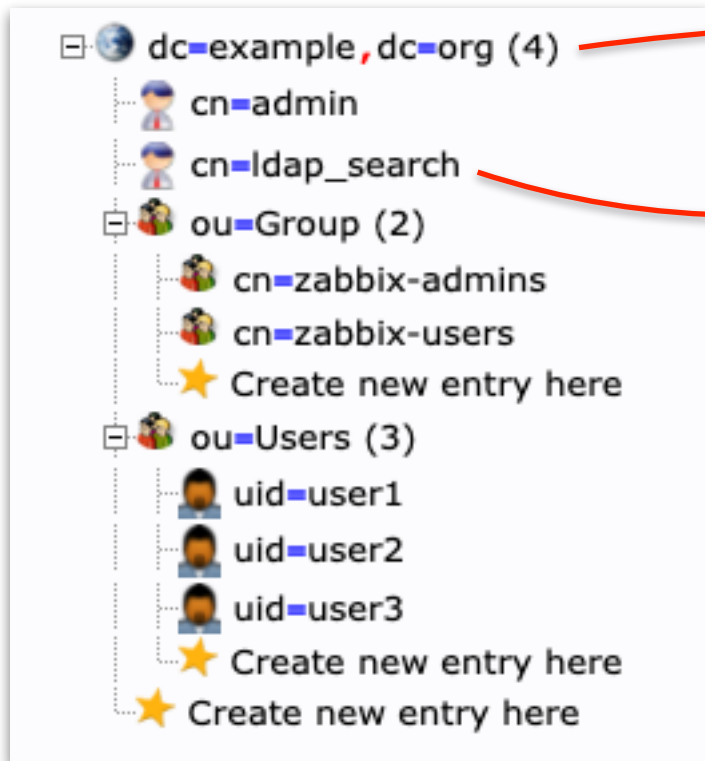
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LDAP data structure

To visually see what's in the LDAP server go to <https://<phpldapadmin>:4443>



Bind DN: `cn=ldap_search,dc=example,dc=org`

Base DN: `ou=Users,dc=example,dc=org`



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Configure Zabbix to use LDAP authentication (can do it on User group level too)

The screenshot shows the Zabbix web interface. On the left is a dark sidebar menu with the ZABBIX logo at the top. The menu items are: Dashboards, Monitoring, Services, Inventory, Reports, Data collection, Alerts, Users, User groups, User roles, Users, API tokens, and Authentication. The 'Users' and 'Authentication' items are circled in red. The main content area is titled 'Authentication' and has tabs for 'Authentication', 'HTTP settings', 'LDAP settings', and 'SAML settings'. The 'LDAP settings' tab is active. Under 'Default authentication', there are two buttons: 'Internal' and 'LDAP', both circled in red. Below this is a dropdown menu for 'Deprovisioned users group' with 'Disabled' selected and a 'Select' button; this dropdown is also circled in red. The 'Password policy' section includes: 'Minimum password length' set to 8; 'Password must contain' with checkboxes for 'an uppercase and a lowercase Latin letter', 'a digit', and 'a special character' (all unchecked); and 'Avoid easy-to-guess passwords' which is checked. An 'Update' button is at the bottom.



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Enable JIT and add LDAP servers

Authentication

Authentication HTTP settings **LDAP settings** SAML settings

Enable LDAP authentication

Enable JIT provisioning

* Servers

Name	Host	User groups	Default	
LDAP server 1	172.16.238.1	1	<input checked="" type="radio"/>	Remove
LDAP server 2	192.168.148.10	0	<input type="radio"/>	Remove
Add				

Case-sensitive login

Provisioning period

[Update](#)



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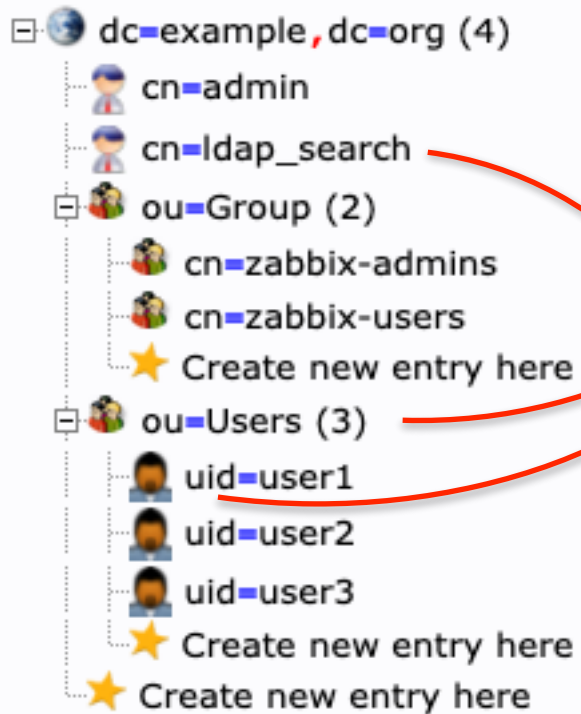
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LDAP server configuration in Zabbix (part 1)



LDAP Server

* Name	<input type="text" value="LDAP server 1"/>
* Host	<input type="text" value="172.16.238.1"/>
* Port	<input type="text" value="3389"/>
* Base DN	<input type="text" value="ou=Users,dc=example,dc=org"/>
* Search attribute	<input type="text" value="uid"/>
Bind DN	<input type="text" value="cn=ldap_search,dc=example,dc=org"/>
Bind password	<input type="button" value="Change password"/>
Description	<input type="text"/>



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LDAP server configuration in Zabbix (part 2 - memberOf)

Configure JIT provisioning

Group configuration ? **memberOf** groupOfNames

Group name attribute

cn

User group membership attribute

memberOf

User name attribute

User last name attribute

* User group mapping

LDAP group pattern	User groups	User role	Action
zabbix-users	Zabbix users	User role	Remove
zabbix-admins	Zabbix administrators	Super admin role	Remove
Add			

memberOf: cn=zabbix-admins,ou=Group,dc=example,dc=org

Every user in (my) LDAP server has attribute **memberOf** - list of groups the user belongs to.

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LDAP server configuration in Zabbix (part 2 - groupOfNames)

- dc=example, dc=org (4)
 - cn=admin
 - cn=ldap_search
 - ou=Group (2)
 - cn=zabbix-admins
 - cn=zabbix-users
 - Create new entry here
- ou=Users (3)
 - uid=user1
 - uid=user2
 - uid=user3
- Create new entry here
- Create new entry here

Group configuration ?

memberOf **groupOfNames**

Group base DN: ou=Group,dc=example,dc=org

Group name attribute: cn

Group member attribute: member

Reference attribute ? : uid

Group filter: (member=uid=%{ref},ou=Users,dc=example,dc=org)

User name attribute:

User last name attribute:

* User group mapping

LDAP group pattern	User groups	User role	Action
zabbix-users	Zabbix users	User role	Remove
zabbix-admins	Zabbix administrators	Super admin role	Remove
Add			

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LDAP server configuration in Zabbix (part 2 - groupOfNames)

LDAP group config

cn

zabbix-admins
(add value)
(rename)

description

Zabbix administrators
(add value)

member

- uid=user1,ou=Users,dc=example,dc=org
- uid=user2,ou=Users,dc=example,dc=org

Group configuration ? memberOf **groupOfNames**

Group base DN ou=Group,dc=example,dc=org

Group name attribute cn

Group member attribute member

Reference attribute ? uid

Group filter (member=uid=%{ref},ou=Users,dc=example,dc=org)

User name attribute

User last name attribute

* User group mapping

LDAP group pattern	User groups	User role	Action
zabbix-users	Zabbix users	User role	Remove
zabbix-admins	Zabbix administrators	Super admin role	Remove
Add			

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ZABBIX

Username
user1

Password
.....

Remember me for 30 days

Sign in

* User group mapping

LDAP group pattern	User groups	User role	Action
zabbix-users	Zabbix users	User role	Remove
zabbix-admins	Zabbix administrators	Super admin role	Remove

[Add](#)

Users ? [Create user](#)

[Filter](#)

<input type="checkbox"/>	Username ▲	Name	Last name	User role	Groups	Is online?	Login	Frontend access	API access	Debug mode	Status	Provisioned	Info
<input type="checkbox"/>	Admin	Zabbix	Administrator	Super admin role	Zabbix administrators	No (2022-11-08 03:29:17)	Ok	System default	Enabled	Disabled	Enabled		
<input type="checkbox"/>	ey			Super admin role	ey	No (2022-11-20 00:06:12)	Ok	Internal	Enabled	Disabled	Enabled		
<input type="checkbox"/>	guest			Guest role	Disabled, Guests	No	Ok	Internal	Disabled	Disabled	Disabled		
<input checked="" type="checkbox"/>	user1			Super admin role	Zabbix administrators	Yes (2022-11-20 00:06:29)	Ok	LDAP	Enabled	Disabled	Enabled	2022-11-20 00:06	

Displaying 4 of 4 found

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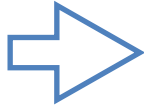
ZABBIX

Username
user3

Password
.....

Remember me for 30 days

Sign in



* User group mapping

LDAP group pattern	User groups	User role	Action
zabbix-users	Zabbix users	User role	Remove
zabbix-admins	Zabbix administrators	Super admin role	Remove
Add			



Users

?

Create user

Filter

<input type="checkbox"/>	Username ▲	Name	Last name	User role	Groups	Is online?	Login	Frontend access	API access	Debug mode	Status	Provisioned	Info
<input type="checkbox"/>	Admin	Zabbix	Administrator	Super admin role	Zabbix administrators	No (2022-11-08 03:29:17)	Ok	System default	Enabled	Disabled	Enabled		
<input type="checkbox"/>	ey			Super admin role	ey	Yes (2022-11-20 00:16:16)	Ok	Internal	Enabled	Disabled	Enabled		
<input type="checkbox"/>	guest			Guest role	Disabled, Guests	No	Ok	Internal	Disabled	Disabled	Disabled		
<input type="checkbox"/>	user1			Super admin role	Zabbix administrators	No (2022-11-20 00:11:54)	Ok	LDAP	Enabled	Disabled	Enabled	2022-11-20 00:11	
<input checked="" type="checkbox"/>	user3			User role	Zabbix users	No (2022-11-20 00:16:08)	Ok	LDAP	Enabled	Disabled	Enabled	2022-11-20 00:16	

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Demo time!



... and thanks for listening!



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