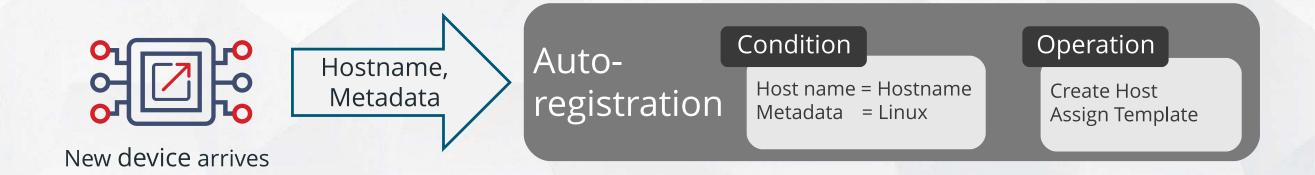


Autoregistration

New active agent hosts can be added without configuring them manually

- ◆ Useful for cloud-like and dynamic environments
- Hosts are created automatically based on both
 - ✓ Data received from host
 - ✓ Action configuration
- **Autoregistration is supported by Zabbix Server and Proxies
- **Autoregistration can be encrypted



Host's metadata can be used to send information from Zabbix agent

- ◆OS, installed software, location, etc.
- ♣ Host's metadata is configured in the agent configuration file
- ♣Two ways of specifying host metadata:
 - ✓ HostMetadata and HostMetadataItem
 - √ HostMetadataItem is only used when HostMetadata is not defined

Examples:

- HostMetadata=Linux, Apache, MySQL
 - ✓ Result: Linux, Apache, MySQL
- ♣ HostMetadataItem=system.uname
 - ✓ Result: Linux server1.zabbix.com 3.10.0-514.10.2.el7.x86_64 ...
- HostMetadataItem=system.run[uname]
 - ✓ Result: Linux

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HostInterface parameter can be used to specify custom value for the host interface

- ♣ If the host should be autoregistered with a DNS name rather than its IP address,

 ✓ the DNS name should be specified or returned as the value
- ♣If the value of one of the two parameters changes, the interface of autoregistered host is updated
- ◆ Useful for monitoring of added hosts with passive checks

Two ways to specify host's *metadata*:

- HostInterface and HostInterfaceItem
- HostInterfaceItem is only used when HostInterface is not defined

Examples:

- ♣ HostInterface=dbserver1.zabbix.lan
- HostInterfaceItem=system.hostname



AUTOREGISTRATION NOTES

An attempt happens every time when active agent updates configuration:

- Configuration request on startup
- Configuration update every 2 minutes by default

At least one autoregistration action must be enabled:

- ♣ Event source for an action must be "Autoregistration"
- *Action conditions must match to the received metadata

Auto de-registration actions can also be created

*Based on received metadata, a host can be removed

The lost hosts are not removed automatically

◆ They can be deleted manually or by using API scripts

Autoregistration is executed only:

- → When a previously unknown active agent asks for a configuration
 - ✓ New Zabbix agent is installed and started
 - ✓ Hostname has been changed in the existing agent configuration
- → If the host metadata information changes:
 - ✓ HostMetadata was changed and the agent has been restarted.
 - ✓ Value returned by HostMetadataItem is changed
- ♣ If autoregistration attempt for an existing host comes from a different Zabbix proxy:
 - ✓ ServerActive configuration parameter has been changed in the agent configuration
 - ✓ If a host was manually moved to another proxy in Zabbix frontend, it would be registered back



If action operations are changed - auto-registration action must be triggered again

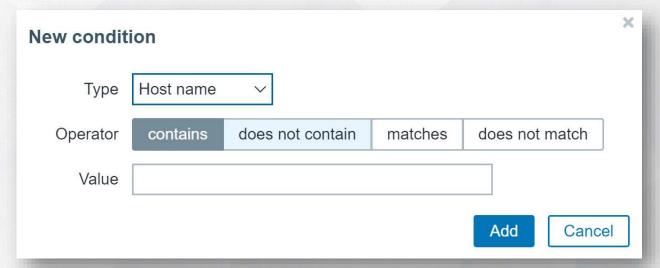
AUTOREGISTRATION ACTION CONDITIONS

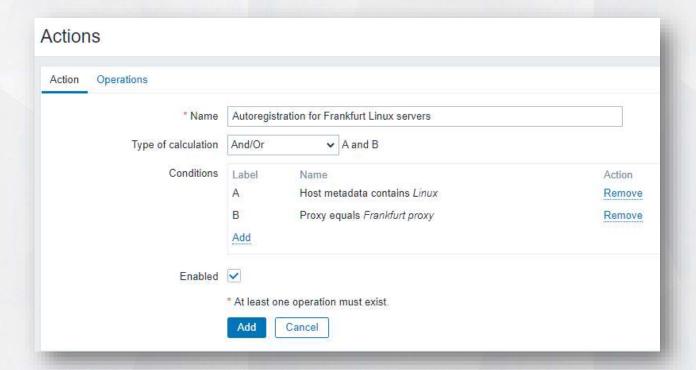
Action conditions

- ♣ Host name / Metadata
 - ✓ Match / does not match
 - ✓ Contains / does not contain
- **→** Proxy
 - ✓ Equals / does not equal

Type of calculation

- *****And
- →Or
- ◆And / Or
- **~** Custom

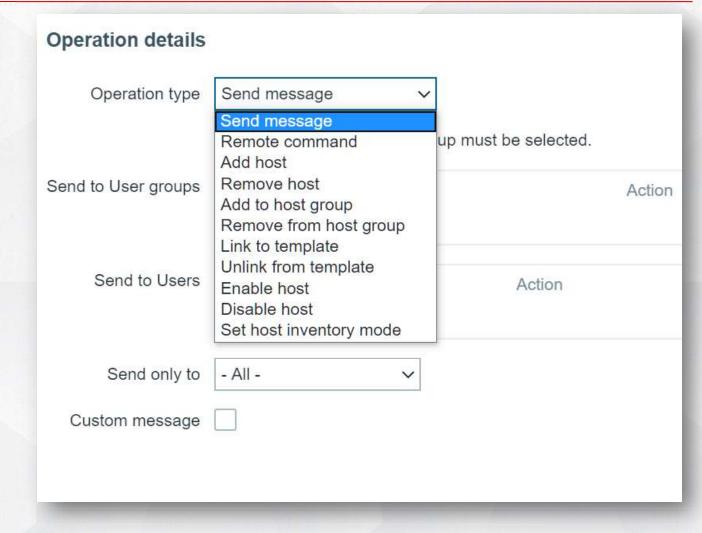




AUTOREGISTRATION ACTION OPERATIONS

Flexible operations during registration

- → Add / Remove host
- Assign / Unassign host group
- ♣ Link / Unlink templates
- ◆Send message
 - ✓ To user
 - √ To user group
- ♣ Remote command
 - ✓ On Zabbix server, agent or proxy
 - ✓ On current or another host
- ♣ Enable / Disable host
- Set host inventory mode
 - ✓ Automatic, manual or disabled
 - √ This overrides global inventory mode





No option to control step execution order

Create Autoregistration action:

- ♣ Define matching action conditions
- ♣ Define operations (create host, link template etc.):
 - ✓ "Add to host group" operation will create new host automatically
 - ✓ In this case, operation "Add host" can be omitted

Set up Zabbix Agent in active mode:

- ♣ Install Zabbix agent
- Configure agent parameters (ServerActive, Hostname)
- Optionally specify additional parameters
 - ✓ HostMetadata or HostMetadataItem
 - ✓ HostInterface or HostInterfaceItem

Start the agent:

- **Autoregistration events are generated on Zabbix Server
- Action reacts to these events and executes operations

AUTOREGISTRATION OF PASSIVE CHECKS

- ♣ Active agent autoregistration also supports registering the hosts with passive checks.
- ♣ Agent sends the following configuration parameters
 - ✓ ListenIP (If not specified, then, IP of incoming connection is used)
 - ✓ ListenPort (10050 by default)
 - ✓ HostInterface or HostInterfaceItem
- ◆ Template with Zabbix Agent passive checks can be linked by action
- ♣ Host is autoregistered, but monitoring is performed using passive checks

Active checks related section Hostname = Production DB ServerActive = <Zabbix server IP> HostInterface = db.prod.local ### Passive checks related section Server = <Zabbix server IP> Passive checks Zabbix Server Autoregistration Autoregistration Action: Add to host group Link template (passive checks)



Add to host group operation includes Add host

A secure autoregistration is possible by configuring PSK-based authentication.

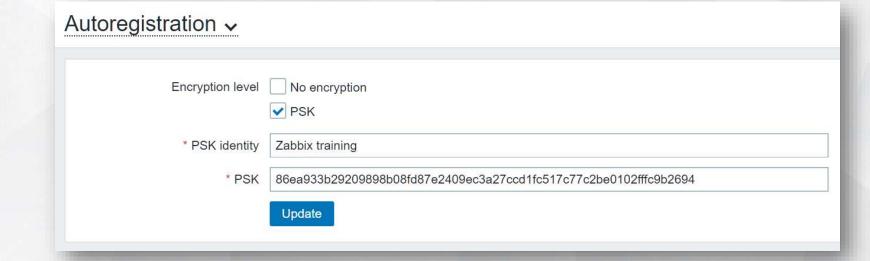
- Initial registration request is already encrypted
- ◆ Authentication by PSK is verified by Zabbix server before adding a host

Autoregistration settings can be defined to accept requests using:

- ♣ No encryption
- ♣ PSK authentication only
- ◆ Both modes

If successful:

- ♣ The host is added
- Connections from/to the host are set to 'PSK'
- ◆ The identity/pre-shared key is the same as in the global autoregistration setting





If a host is registered through Zabbix Proxy, Server-Proxy connection should also be secured