Working with templates

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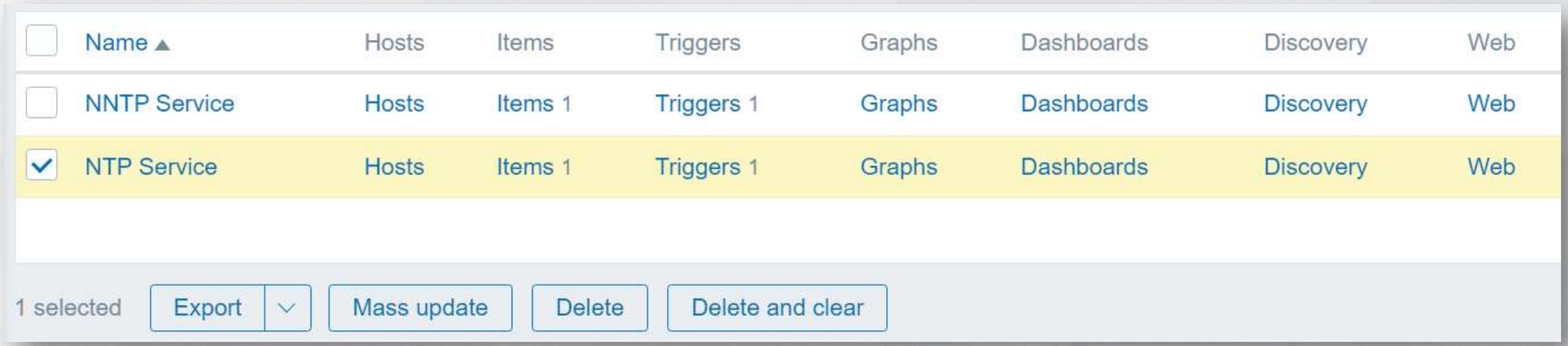
DELETE TEMPLATE

Pressing **Delete** on Templates selection will:

- Delete the template
- Leave all items from this template on the linked hosts (they will belong to a host now)

Pressing **Delete and clear** on Templates selection will:

- Delete the template
- Delete all items from this template on all linked hosts



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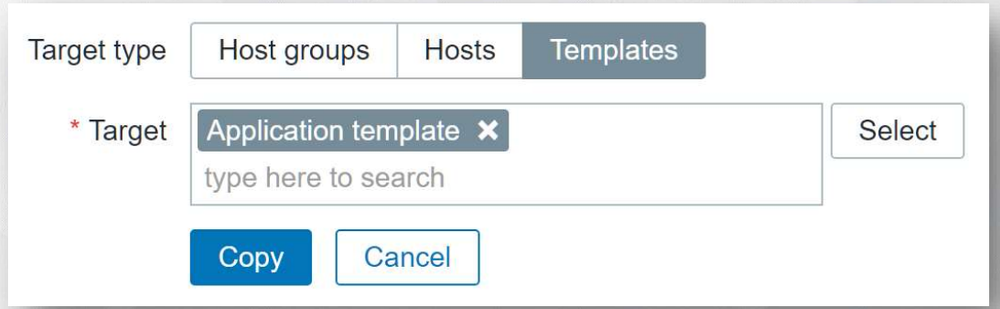
COPY ITEMS

Items from one host or template can be copied using **Copy** functionality to:

- Other host(s)
- All hosts or templates in a host group(s)
- Template(s)



It is recommended to use templates for easier management of items:

- Create and test all items on a single host
- Copy them to a template when they are working as expected
- Assign the template to all required hosts

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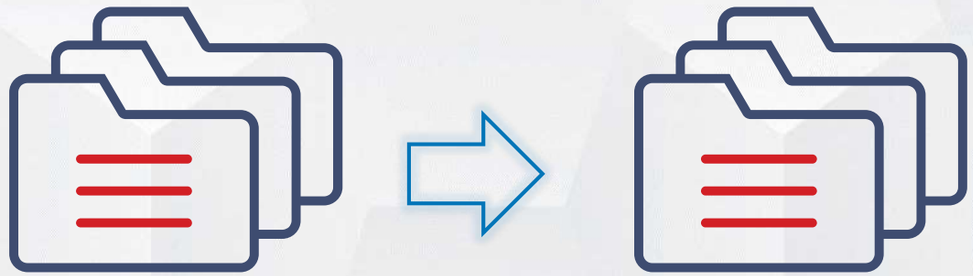
CLONE TEMPLATES

Templates and hosts can be cloned to quickly create new from existing ones:

- Open host or template configuration screen
- Press **Clone** or **Full clone** button at the bottom of the form

- Enter new name for a host or template and press Add
- All properties will be copied:
  - ✓ General properties
  - ✓ Template linkage
  - ✓ Tags
  - ✓ Macros
  - ✓ Value maps



- Host will also copy IPMI parameters, encryption settings and inventory

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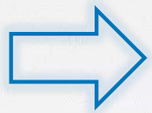
CLONE AND FULL CLONE DIFFERENCE

Clone and Full clone work differently on local entities:

- Clone will retain all parameters and template linkage

Name ▲	Triggers
HTTPS Service: HTTPS service is running	Triggers 1
SSH Service: SSH service is running	Triggers 1
Zabbix agent version	Triggers 1

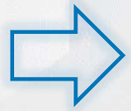


Clone

Name ▲	Triggers
HTTPS Service: HTTPS service is running	Triggers 1
SSH Service: SSH service is running	Triggers 1

- Full clone will retain all parameters, template linkage and local entities

Name ▲	Triggers
HTTPS Service: HTTPS service is running	Triggers 1
SSH Service: SSH service is running	Triggers 1
Zabbix agent version	Triggers 1



Full Clone

Name ▲	Triggers
HTTPS Service: HTTPS service is running	Triggers 1
SSH Service: SSH service is running	Triggers 1
Zabbix agent version	Triggers 1

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TEMPLATED ITEM PROPERTIES

Most item properties can be changed only on the template level:

- Item name, type, units, etc.
- Preprocessing steps

Some properties for templated items can be overridden on the host level:

- Update interval
- History and trends storage periods
- Some other settings (depends on the item type)

Changing properties on the template later will overwrite changes for linked hosts:

- Using user macros is a more reliable way to customize some item parameters
- User macro values are never overridden by template if they are redefined on a host

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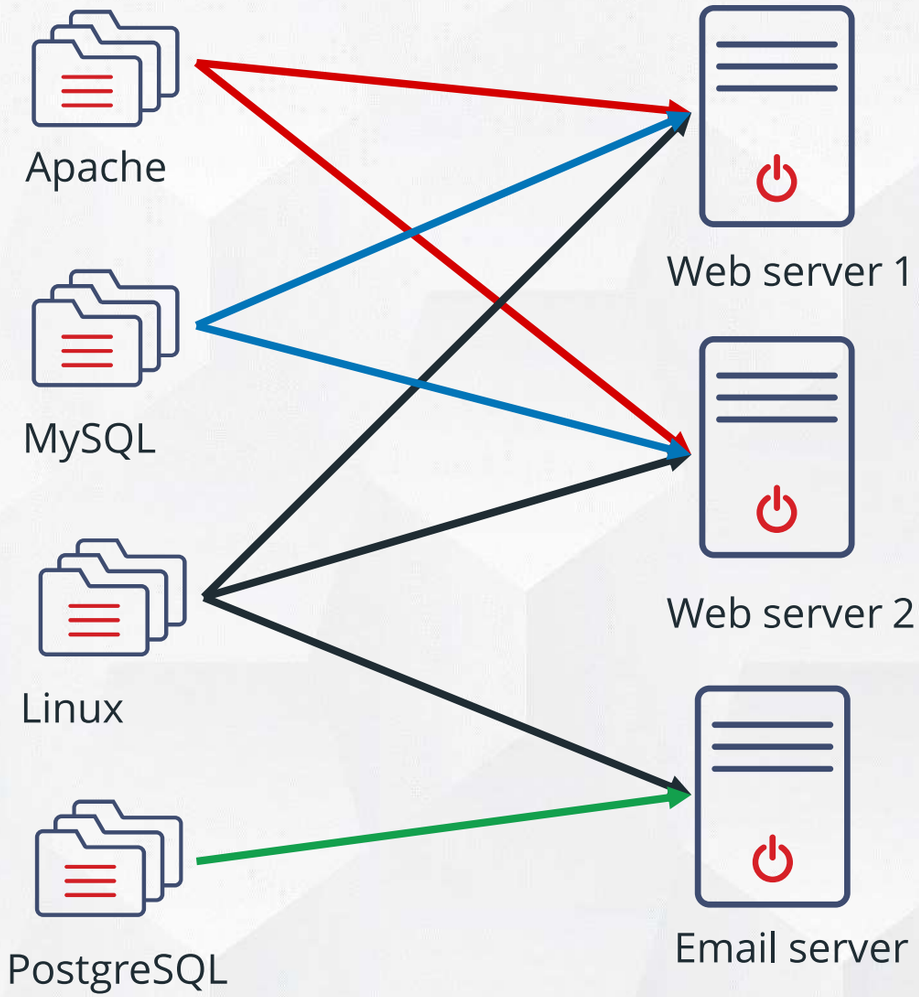
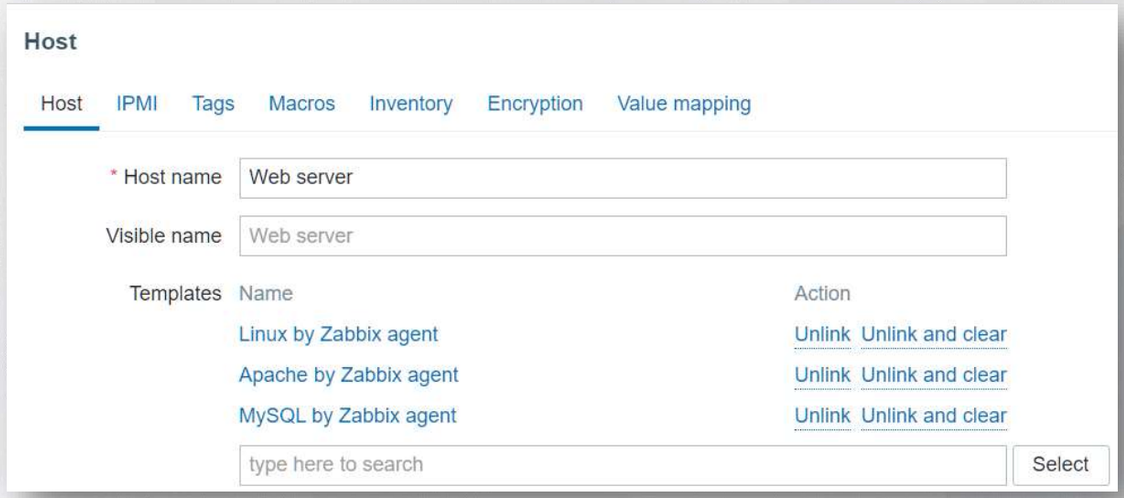
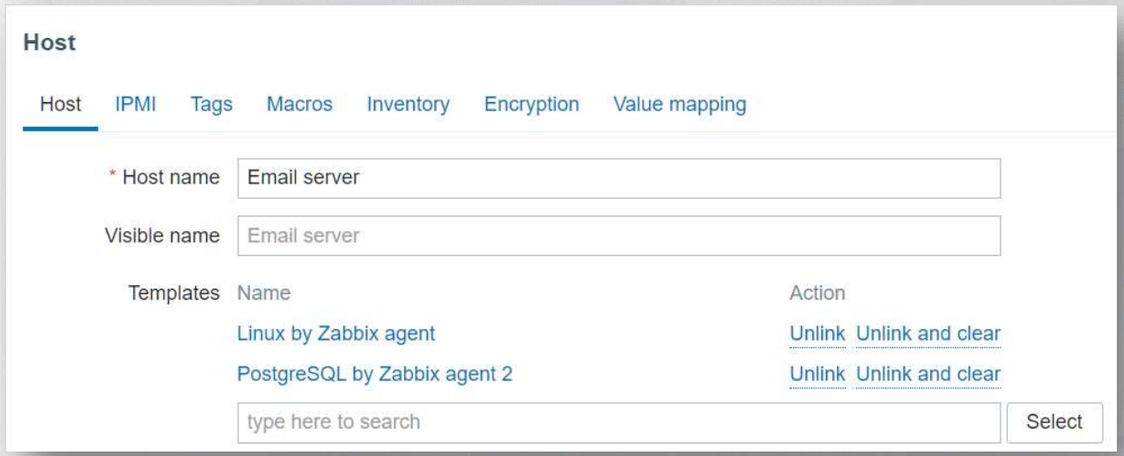
Multiple templates can be linked to a single host

- Such design requires to understand which templates to use on each host







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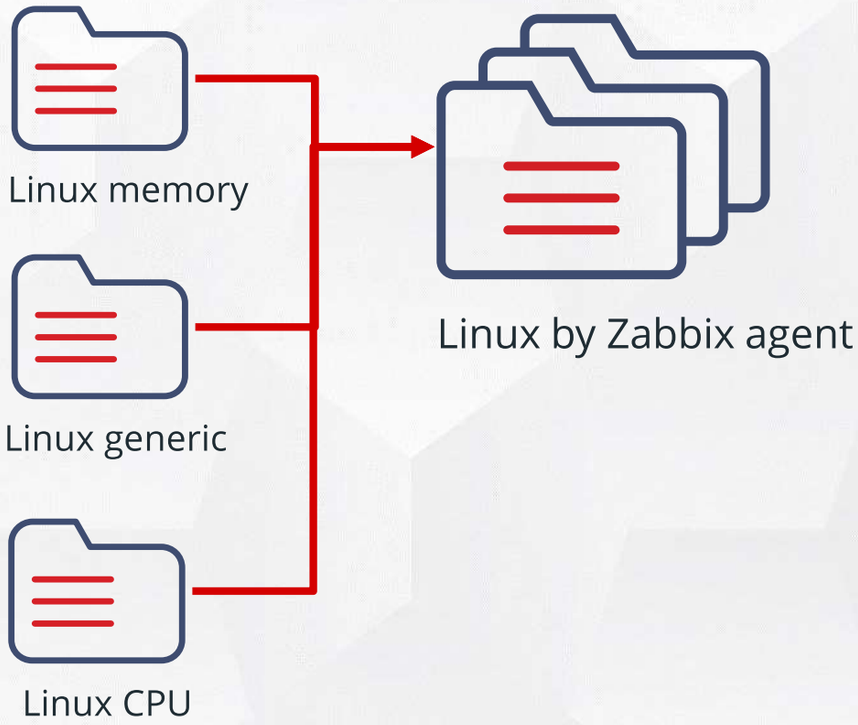
Templates can contain other templates:

- The main template may be empty without own items (like a container)
- All entities are created on inherited templates



All templates / Linux by Zabbix agent | Items 42 | Triggers 14 | Graphs 8

Wizard	Name ▲
•••	Linux memory by Zabbix agent: Available memory
•••	Linux memory by Zabbix agent: Available memory in %
•••	Linux generic by Zabbix agent: Checksum of /etc/passwd
•••	Linux CPU by Zabbix agent: Context switches per second
•••	Linux CPU by Zabbix agent: CPU guest nice time
•••	Linux CPU by Zabbix agent: CPU guest time

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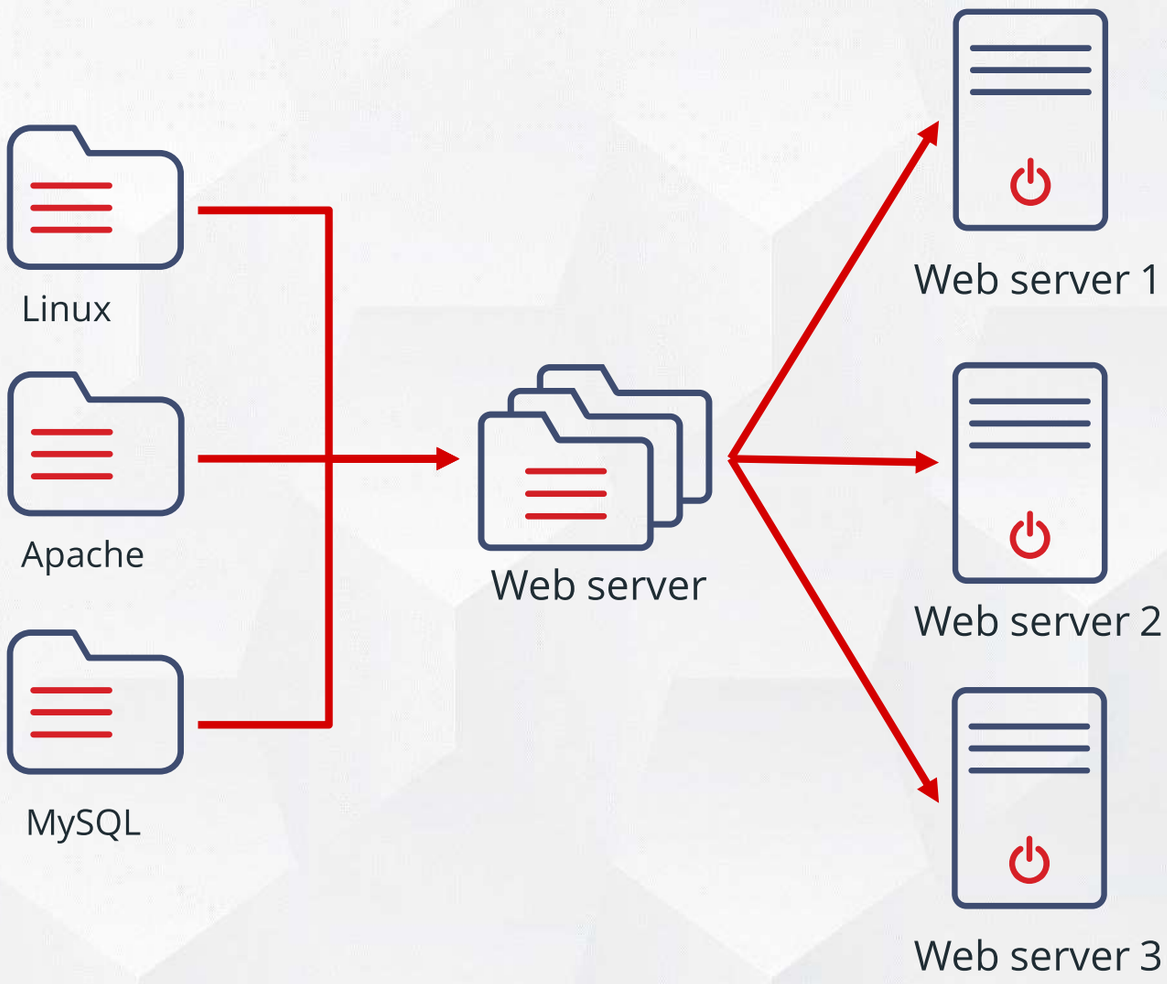
Container templates can be linked instead of linking each individual template



Template

Templates | Tags | Macros | Value mapping

* Template name: Web server

Visible name: Web server

Templates	Name	Action
	Apache by Zabbix agent	Unlink Unlink and clear
	Linux by Zabbix agent	Unlink Unlink and clear
	MySQL by Zabbix agent	Unlink Unlink and clear

type here to search | Select

Host

Host

Host | IPMI | Tags | Macros | Inventory | Encryption | Value mapping 1

* Host name: Web server 1

Visible name: Web server 1

Templates	Name	Action
	Web server	Unlink Unlink and clear

type here to search | Select

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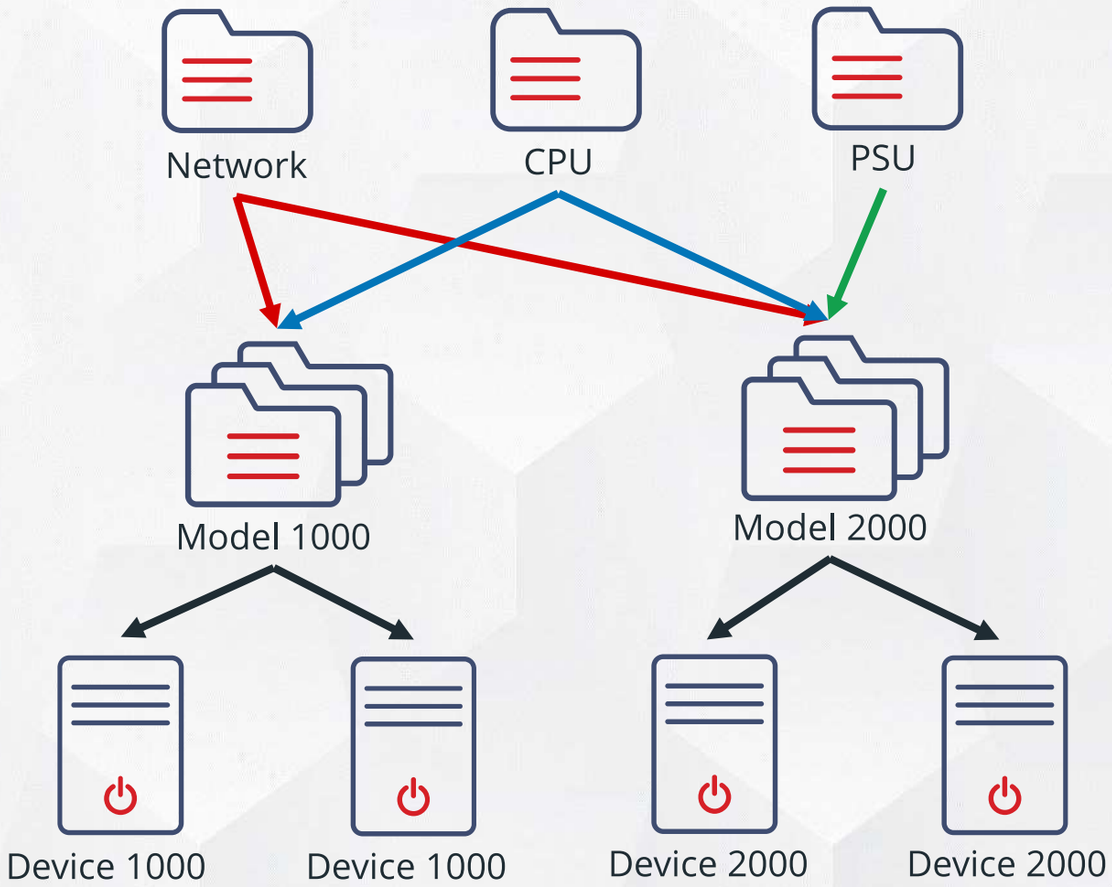
Templates can be built from smaller reusable modules:

- It is recommended to have only necessary items on each template
  - ✓ Unsupported items will decrease performance
  - ✓ Disabled items will increase configuration size



/ HOST-RESOURCES-MIB SNMP | Items 1 | Triggers 1 | Graphs 1

Linked templates 3 | Tags | Macros | Value mapping

Linked templates

Name
HOST-RESOURCES-MIB CPU SNMP
HOST-RESOURCES-MIB memory SNMP
HOST-RESOURCES-MIB storage SNMP

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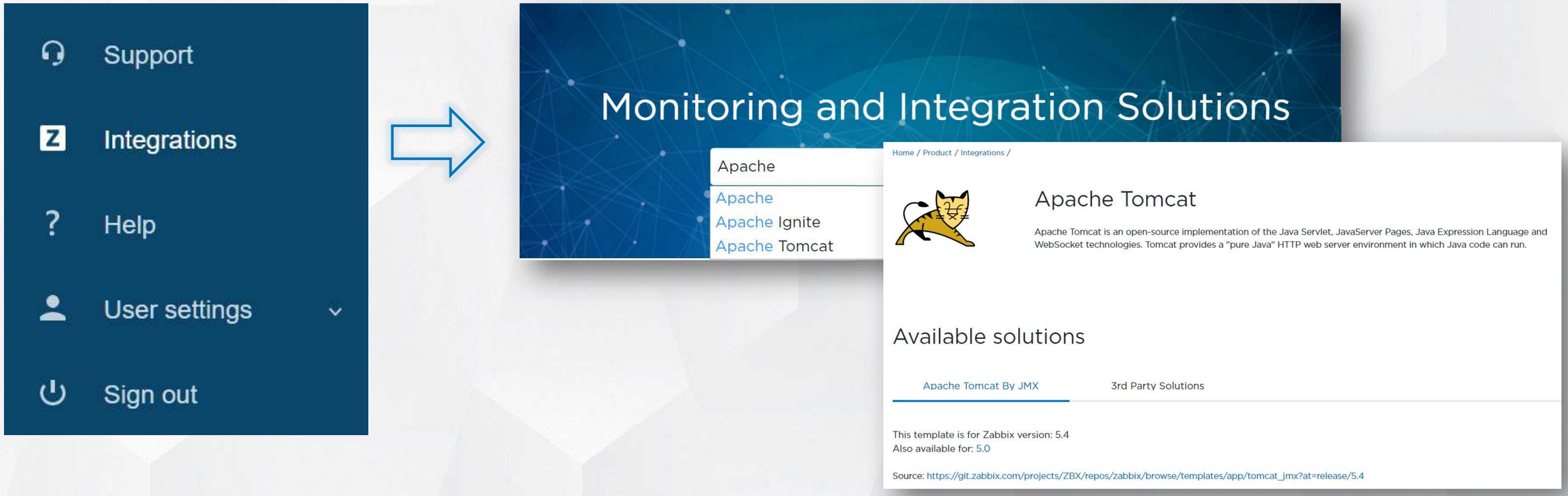
OBTAINING ZABBIX TEMPLATES

Zabbix templates can be obtained from:

- Any fresh Zabbix installation
- Zabbix git repository https://git.zabbix.com/projects/ZBX/repos/zabbix/browse/templates
- Zabbix template building services
- Zabbix integrations page https://www.zabbix.com/integrations



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