

# Scale Monitoring Effortlessly: Automated Host Lifecycle Management with Zabbix

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# Monitoring Lifecycle Automation

**Why host lifecycle automation is critical at scale?**

**How Zabbix can handle hosts dynamically?**

**Autoregistration vs Network Discovery?**

**Implementing automated deployment with Ansible**

# **Deployment issues**

**Rapid growth of devices and applications**

**Dynamic infrastructure**

**Multiple environments**

**Initial monitoring deployment**

# Common challenges in manual monitoring environments

## Configuration

- Complex management
- Configuration drift
- Inconsistent config



## Overhead

- Manual setup
- Debugging issues
- Manual removal

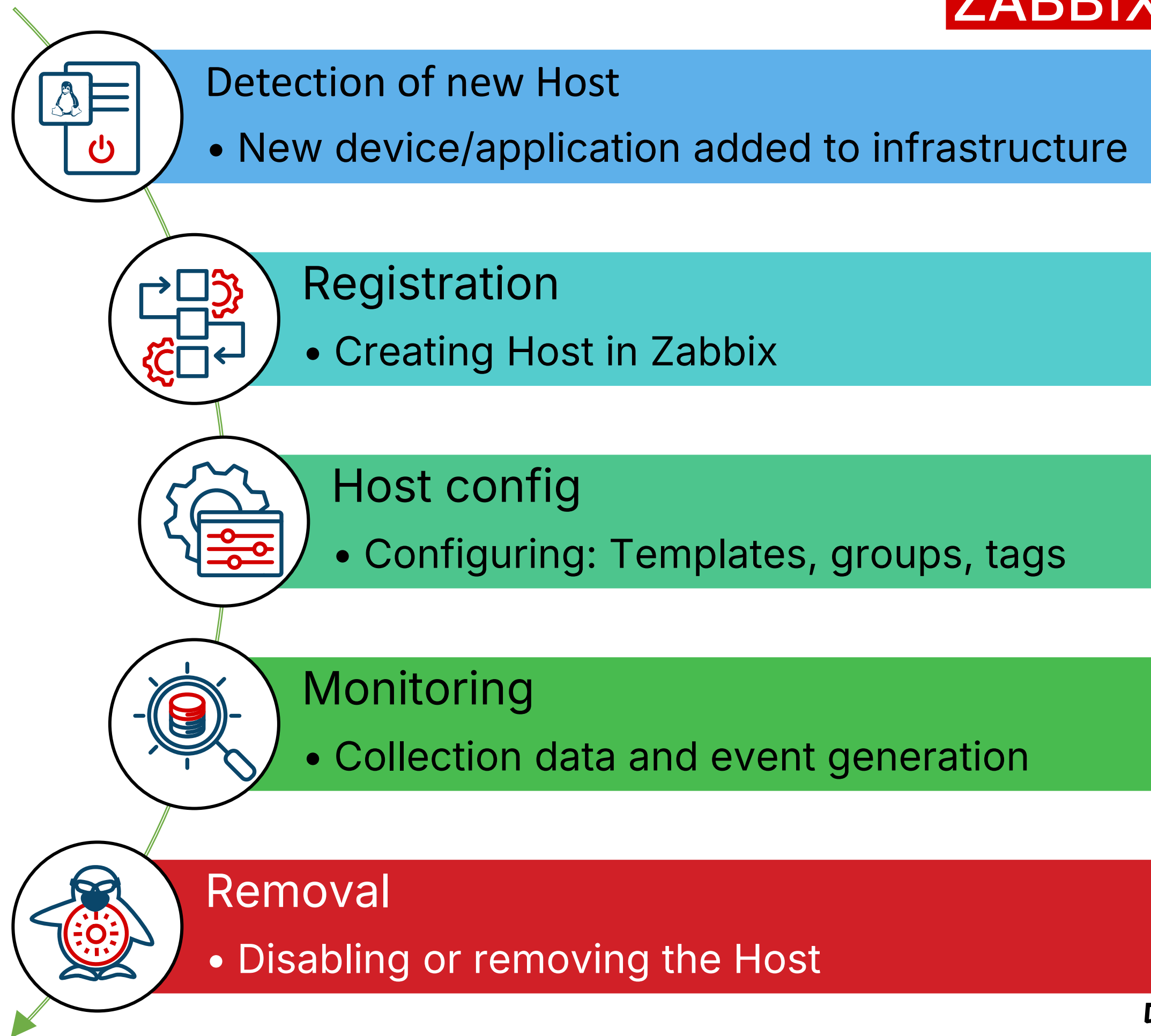


## Human errors

- Missing configuration
- Incorrect thresholds
- Typos



# Host lifecycle stages



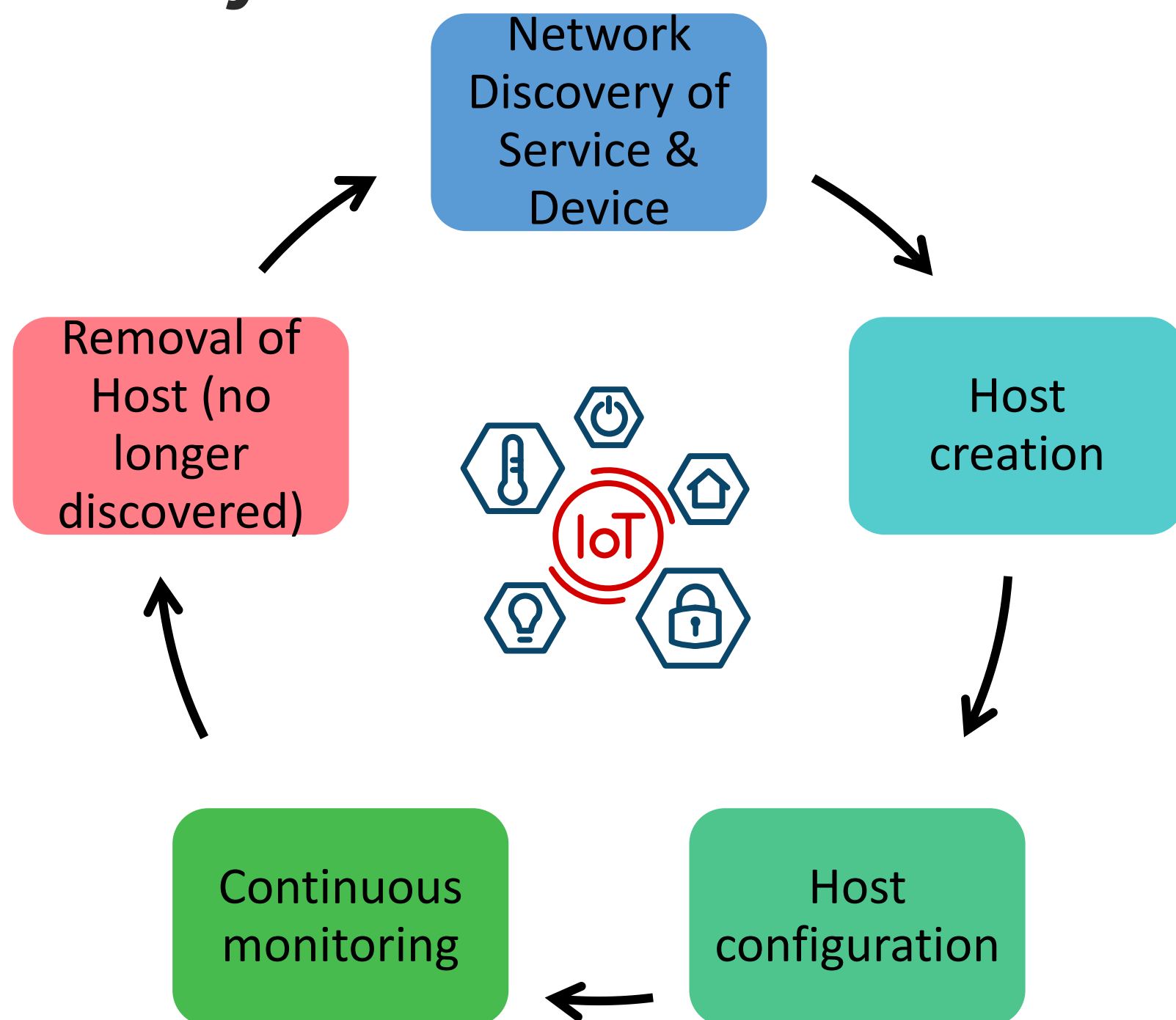
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# Zabbix Network Discovery

# Network Discovery feature: Automatically manage Host lifecycle



## Use cases:

- Scanning network for devices/apps
- Monitoring service or device or application
- Immediate metric collection
- Cloud infrastructure monitoring
- Virtual environment monitoring:
  - Hypervisors
  - Virtual machines
  - Containers
  - Services

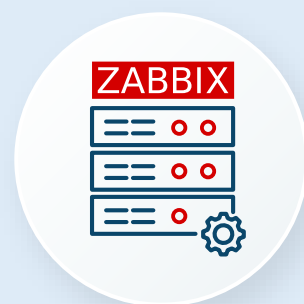
# Network Discovery: How the monitoring will be performed

## Scanning network

SSH, LDAP, SMTP,  
FTP, HTTP, HTTPS,  
POP, NNTP, IMAP,  
TCP, Telnet, Zabbix  
agent, SNMP agent,  
ICMP ping

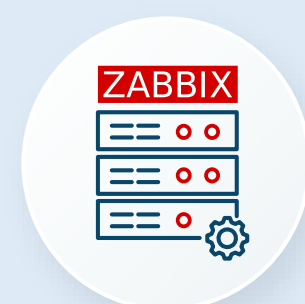
## Can be discovered by:

Zabbix server  
Zabbix proxies



## Host will be monitored by:

Zabbix server — discovered by Zabbix server  
Zabbix proxy — discovered by proxy



# Create Network Discovery rule: Zabbix frontend configuration

## Create a Discovery rule

Create a new Discovery rule:  
Data collection > Discovery

- Set name
- Discovery by
- IP range
- Update interval
- Concurrency settings
- Checks
- Device uniqueness criteria
- Host name
- Visible name

\* Name

Discovery by  Server  Proxy

\* IP range

\* Update interval

Maximum concurrent checks per type  One  Unlimited  Custom

\* Checks

Type	Actions
SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.1.0]"	<a href="#">Edit</a> <a href="#">Remove</a>
SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.2.0]"	<a href="#">Edit</a> <a href="#">Remove</a>
SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.5.0]"	<a href="#">Edit</a> <a href="#">Remove</a>
<a href="#">Add</a>	

Device uniqueness criteria

IP address

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.1.0]"

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.2.0]"

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.5.0]"

Host name

DNS name

IP address

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.1.0]"

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.2.0]"

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.5.0]"

Visible name

Host name

DNS name

IP address

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.1.0]"

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.2.0]"

SNMPv2 agent (10161) "get[1.3.6.1.2.1.1.5.0]"

## Network Discovery rule: Checks

### Service status

- SSH
- LDAP
- SMTP
- FTP
- HTTP
- HTTPS
- POP
- NNTP
- IMAP
- TCP
- Telnet
- ICMP ping

### Retrieving value from Zabbix/SNMP checks

- Zabbix agent
- SNMP agent

\*(Discovery action will add Agent/SNMP interface with address when adding a host)

# Network Discovery rule: Retrieving information about device

## Retrieving value from Zabbix agent

- system.uname
- system.hostname
- agent.hostname
- agent.hostmetadata

Name ▼	Last check	Last value
<u>System identification</u>	33s	Linux EU-MYSQL-N15.zabbix.com 5.14.0-...
<u>System hostname</u>	34s	EU-MYSQL-N15.zabbix.com
<u>Agent hostname</u>	35s	EU MYSQL N15
<u>Agent hostmetadata</u>	32s	mysql,production,n15

## Retrieving value from SNMP item

- Sys Descr: **get[1.3.6.1.2.1.1.1.0]**
- sysObjectID : **get[1.3.6.1.2.1.1.2.0]**
- sysName: **get[1.3.6.1.2.1.1.5.0]**

Name	Last check	Last value	Change	Tags
<u>sysDescr1</u>	43s	Linux workshop 5.14.0-694....		device: #1
<u>sysDescr2</u>	42s	Integrated Lights-Out 4 2.80...		device: #2
<u>sysDescr3</u>	41s	RouterOS RBD52G-5HacD2...		device: #3
<u>sysObjectID1</u>	40s	.1.3.6.1.4.1.8072.3.2.10		device: #1
<u>sysObjectID2</u>	39s	.1.3.6.1.4.1.232.9.4.10		device: #2
<u>sysObjectID3</u>	38s	.1.3.6.1.4.1.14988.1		device: #3
<u>sysName1</u>	37s	workshop		device: #1
<u>sysName2</u>	36s	HPE ProLiant DL380 Gen9 ...		device: #2
<u>sysName3</u>	35s	Home router		device: #3

# Network Discovery rule: Device uniqueness criteria

## IP address

Unique HOST per IP

Device uniqueness criteria	<input checked="" type="radio"/> IP address <input type="radio"/> Zabbix agent "agent.hostname" <input type="radio"/> SNMPv2 agent "get[1.3.6.1.2.1.1.5.0]"
----------------------------	---

**1.3.6.1.2.1.1.5.0 sysName**

## Zabbix agent key

Unique HOST per Zabbix agent key value

Device uniqueness criteria	<input type="radio"/> IP address <input checked="" type="radio"/> Zabbix agent "system.hostname" <input type="radio"/> SNMPv2 agent "get[1.3.6.1.2.1.1.5.0]"
----------------------------	--

## SNMP agent key

Unique HOST per SNMP agent key value

Device uniqueness criteria	<input type="radio"/> IP address <input type="radio"/> Zabbix agent "system.hostname" <input checked="" type="radio"/> SNMPv2 agent "get[1.3.6.1.2.1.1.5.0]"
----------------------------	--

# Network Discovery setup: Zabbix frontend configuration (provisioning)

**Configure Network Discovery action:**  
Alerts>Actions> Discovery actions

**New action**

[Action](#) [Operations 3](#)

\* Name

Type of calculation

Conditions	Label	Name
	A	Received value contains <i>Cisco Catalyst 3750V2-24FS</i>
	B	Discovery status equals <i>Discovered</i>

[Add](#)

Enabled

**Configure Network Discovery operations**

**New action**

[Action](#) [Operations 5](#)

Operations [Details](#)

**Send message to users:** Admin (Zabbix Administrator) via Email

**Add host**

**Add to host groups:** Discovered hosts

**Link templates:** Cisco Catalyst 3750V2-24FS by SNMP

**Add host tags:**

[Add](#)

# Network Discovery setup: Zabbix frontend configuration (remove)

**Configure Network Discovery action:**  
Alerts>Actions> Discovery actions

**New action**

Action Operations 1

\* Name

Type of calculation  A and B

Conditions	Label	Name
	A	Discovery status equals <i>Down</i>
	B	Uptime/Downtime is greater than or equals <i>172800</i>
	<a href="#">Add</a>	

Enabled

**Configure Discovery operations**

**New action**

Action Operations 1

Operations

**Remove host**

[Add](#)

\* At least one operation must exist.

# Result

<input type="checkbox"/> Name ▲	Conditions	Operations
<input type="checkbox"/> Add Cisco devices	Discovery object equals <i>Service</i> Received value contains <i>Cisco</i>	<b>Add host</b> <b>Add to host groups:</b> Mikrotik <b>Link templates:</b> Cisco IOS by SNMP
<input type="checkbox"/> Add HP devices	Discovery object equals <i>Service</i> Received value contains <i>Integrated Lights-Out</i>	<b>Add host</b> <b>Add to host groups:</b> Mikrotik <b>Link templates:</b> HP iLO by SNMP

<input type="checkbox"/> Add L	Discovered device ▲	Monitored host	Uptime/Downtime	SNMPv2
<b>Discover snmp devices</b> (4 devices)				
	134.209.250.73	<u>HPE ProLiant DL380 Gen9 Server</u>	00:05:07	5m 7s
	138.68.101.217	<u>Office zone14 router</u>	00:05:07	5m 7s
	159.65.125.50	<u>Centos-9-dev-node14</u>	00:05:07	5m 7s
	165.227.137.207	<u>Office switch_floor 4 zone3</u>	00:05:07	5m 7s

<input type="checkbox"/> Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption
<input type="checkbox"/> ... Centos-9-dev-node14	Items 62	Triggers 19	Graphs 9	Discovery 5	Web	159.65.125.50:10161		<u>Linux by SNMP</u>	Enabled	SNMP	None
<input type="checkbox"/> ... HPE ProLiant DL380 Gen9 Server	Items 120	Triggers 133	Graphs	Discovery 13	Web	134.209.250.73:10161		<u>HP iLO by SNMP</u>	Enabled	SNMP	None
<input type="checkbox"/> ... Office switch_floor 4 zone3	Items 297	Triggers 132	Graphs 30	Discovery 8	Web	165.227.137.207:10161		<u>Cisco IOS by SNMP</u>	Enabled	SNMP	None
<input type="checkbox"/> ... Office zone14 router	Items 112	Triggers 48	Graphs 14	Discovery 8	Web	138.68.101.217:10161		<u>Mikrotik by SNMP</u>	Enabled	SNMP	None

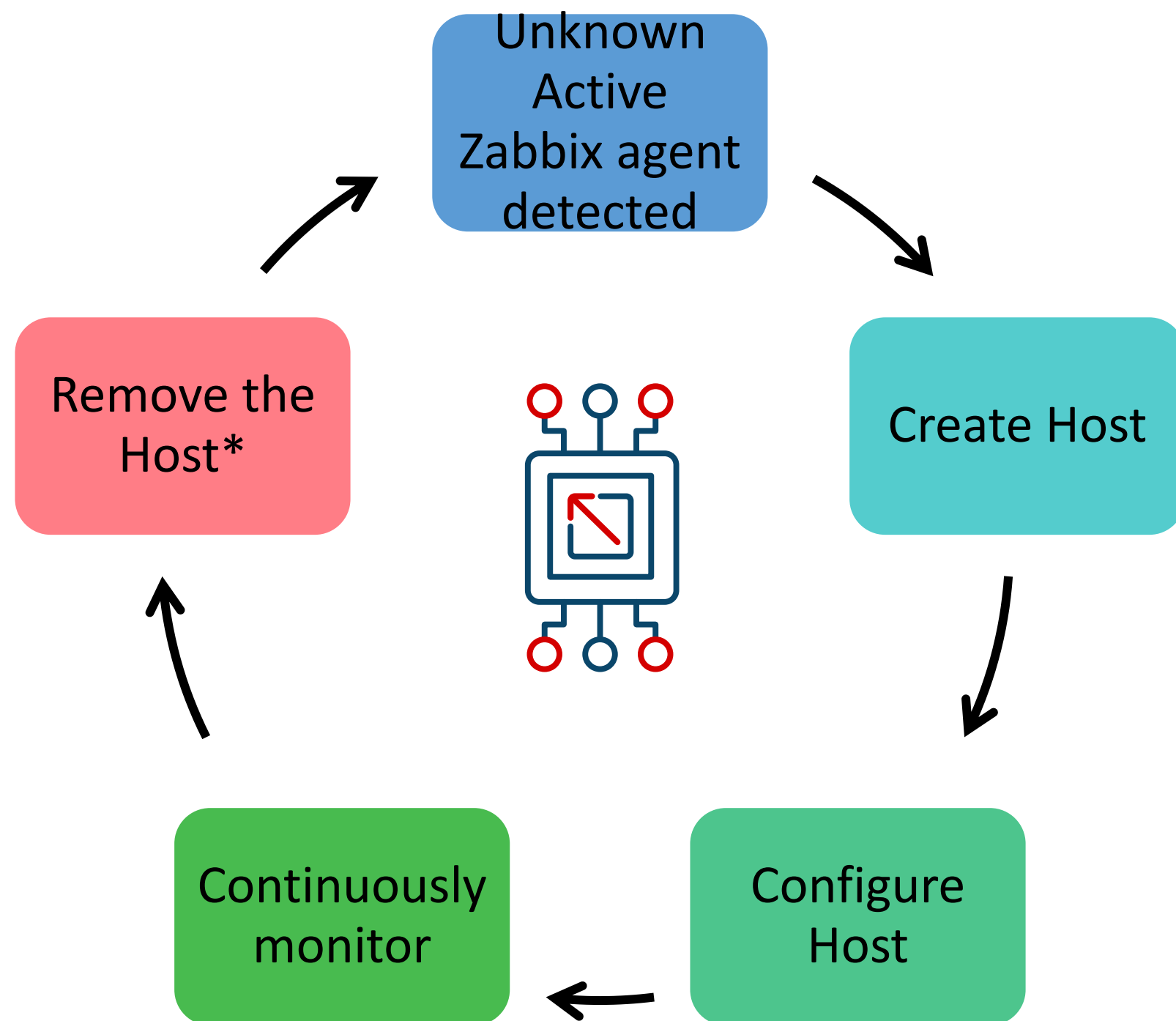
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# Zabbix Autoregistration

# Autoregistration feature: Automatically manage Host lifecycle



## Use cases:

- Device is monitored when it's up and reachable
- Immediate metric collection
- Cloud infrastructure monitoring
- Virtual environment monitoring:
  - Hypervisors
  - Virtual machines
  - Containers
  - Services

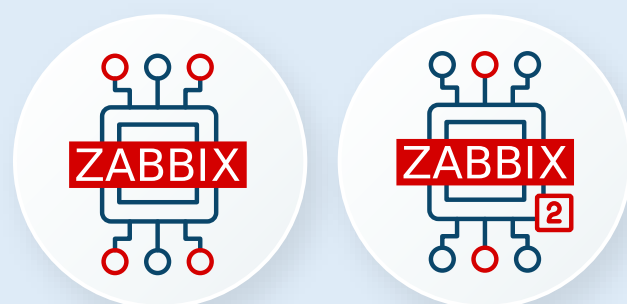
\*API/Ansible

# Autoregistration

Automatically create hosts without manual intervention from Zabbix administrator

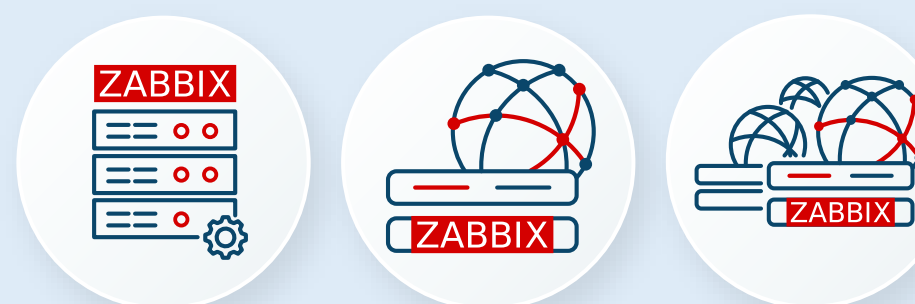
## Requires component:

Zabbix agent or  
Zabbix agent2



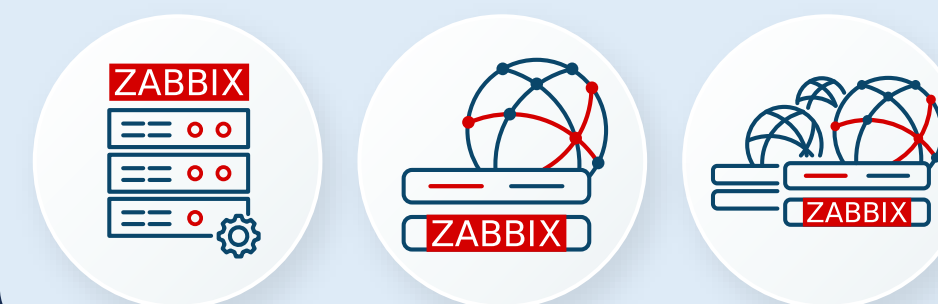
## Can be autoregistered by:

Zabbix server  
Zabbix proxies  
Zabbix proxy groups



## Host will be monitored by:

Zabbix server — autoregistered by Zabbix server  
Zabbix proxy — autoregistered by proxy  
Proxy group — autoregistered by proxy group)



# Autoregistration execution

## **When Zabbix agent in active mode is started**

Previously known/unknown Zabbix agent in active mode is configured and started  
Every 2 minutes when agent is running

## **When Host metadata information has been changed**

Modified HostMetadata parameter and restarted Zabbix agent  
Value from HostMetadataItem changed

# Autoregistration setup: Zabbix frontend configuration (provisioning)

## Configure Autoregistration action Alerts>Actions>Autoregistration actions

## Configure Autoregistration operations

**New action**

Action   [Operations 5](#)

---

\* Name

Type of calculation   A and B

Conditions	Label	Name
	A	Host name contains <i>production</i>
	B	Host metadata contains <i>linux</i>

[Add](#)

**New action**

[Action](#)   Operations 6

---

Operations

[Details](#)

**Send message to users:** Admin (Zabbix Administrator) via Email

**Run script "Run script on autoregistered hosts" on current host**

**Add host**

**Add to host groups:** Linux servers

**Link templates:** Linux by Zabbix agent active

**Add host tags:**

[Add](#)

# Autoregistration setup: Zabbix frontend configuration (deprovisioning)

**Configure Autoregistration action**  
Alerts>Actions>Autoregistration actions

**Configure Autoregistration operations**

**New action**

Action Operations

\* Name

Conditions

Label	Name
A	Host metadata contains <i>deprovision</i>

[Add](#)

Enabled

**Action**

Action Operations 1

Operations

[Details](#)

**Remove host**

[Add](#)

# Autoregistration setup: basic agent configuration (**active** checks only)

## Install appropriate Zabbix repo and Zabbix agent

```
rpm -Uvh  
https://repo.zabbix.com/zabbix/7.4/release.....  
dnf install zabbix-agent2
```

## Configure Agent in active mode:

Agent must be configured in active mode:

```
# vi /etc/zabbix/zabbix_agent2.conf  
ServerActive=165.227.137.207  
Hostname=Node143-production  
HostMetadata=linux
```

<input type="checkbox"/>	Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
<input type="checkbox"/>	••• Node143-production	Items 50	Triggers 20	Graphs 10	Discovery 3	Web	134.209.250.73:10050		Linux by Zabbix agent active	Enabled	ZBX	None		Env: linux

Host monitored with active  
Zabbix agent item from template

## Autoregistration setup: basic agent configuration (active and passive checks)

### Install appropriate Zabbix repo and Zabbix agent

```
rpm -Uvh  
https://repo.zabbix.com/zabbix/7.4/release.....  
dnf install zabbix-agent2
```

### Configure Agent in active mode:

Agent must be configured in active mode:

Server= Allowed addresses of server/proxies for passive checks

ServerActive= Adress of server or proxy for agent to connect

Hostname= The name of the host

HostMetadata= database (optional)

```
# vi /etc/zabbix/zabbix_agent2.conf  
Server=165.227.137.207  
ServerActive=165.227.137.207  
Hostname=Node143-production  
HostMetadata=linux
```

Interface	Status	Error
138.68.101.217:10050	Available	
Active checks	Available	

Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
Node144-production	Items 100	Triggers 37	Graphs 19	Discovery 4	Web	138.68.101.217:10050		Linux by Zabbix agent, Log files by Zabbix agent 2 active	Enabled	ZBX	None		Env: logs

## Autoregistration setup: dynamic agent configuration

### Install appropriate Zabbix repo and Zabbix agent

```
rpm -Uvh  
https://repo.zabbix.com/zabbix/7.4/release.....  
dnf install zabbix-agent2
```

### Configure Agent in active mode:

Agent must be configured in active mode:

```
# vi /etc/zabbix/zabbix_agent2.conf  
ServerActive=165.227.137.207  
HostnameItem=system.hostname[shorthost]  
HostMetadataItem=system.run[cat /etc/zabbix/meta]  
HostInterfaceItem=system.hostname[shorthost,lower]
```

# HostnameItem=system.hostname[<type>,<transform>]

**system.hostname[host]** EU-NL-mysql-node23.zabbix.com

**system.hostname[shorthost]** EU-NL-mysql-node23

**system.hostname[fqdn,lower]** eu-nl-mysql-node23.zabbix.com

# Encrypt connection

## Configure Zabbix frontend

Administration > General > Autoregistration:

- Set encryption level
- Fill PSK identity and key

☰ Autoregistration ▾

Encryption level  No encryption  
 PSK

\* PSK identity

\* PSK

[Update](#)

## Configure Zabbix agent

```

TLSConnect=psk
TLSAccept=psk
TLSPSKIdentity=Autoregistration
TLSPSKFile=/etc/zabbix/keys/agent.psk
    
```

<input type="checkbox"/>	Name ▲	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
<input type="checkbox"/>	... Node143-production	Items 95	Triggers 34	Graphs 19	Discovery 3	Web	134.209.250.73:10050		Linux by Zabbix agent active	Enabled	ZBX	PSK None PSK CERT		Env: linux

# Network Discovery vs Autoregistration

## Network Discovery

- Scanning for devices/services
- Can scan Zabbix agents in passive mode
- Encryption is not supported
- Network scanning is periodic

## Autoregistration

- Requires Zabbix agent/ Zabbix Agent2
- Zabbix agent configured in active mode
- Encryption is supported\*
- Attempted when an active agent connects and the host is unknown or its Hostname or metadata has changed

\* Same PSK identity and value for all autoregistered hosts

# Automating the deployment of Zabbix agent\* with Ansible

\* and other components

## Deploying Agent effortlessly

- Install repo
- Install Zabbix agent
- Configure Zabbix agent config
- Start the Zabbix agent service

## Keep track of configuration

- What parameters are already set?
- Have the settings changed at some point?
- Revert the change

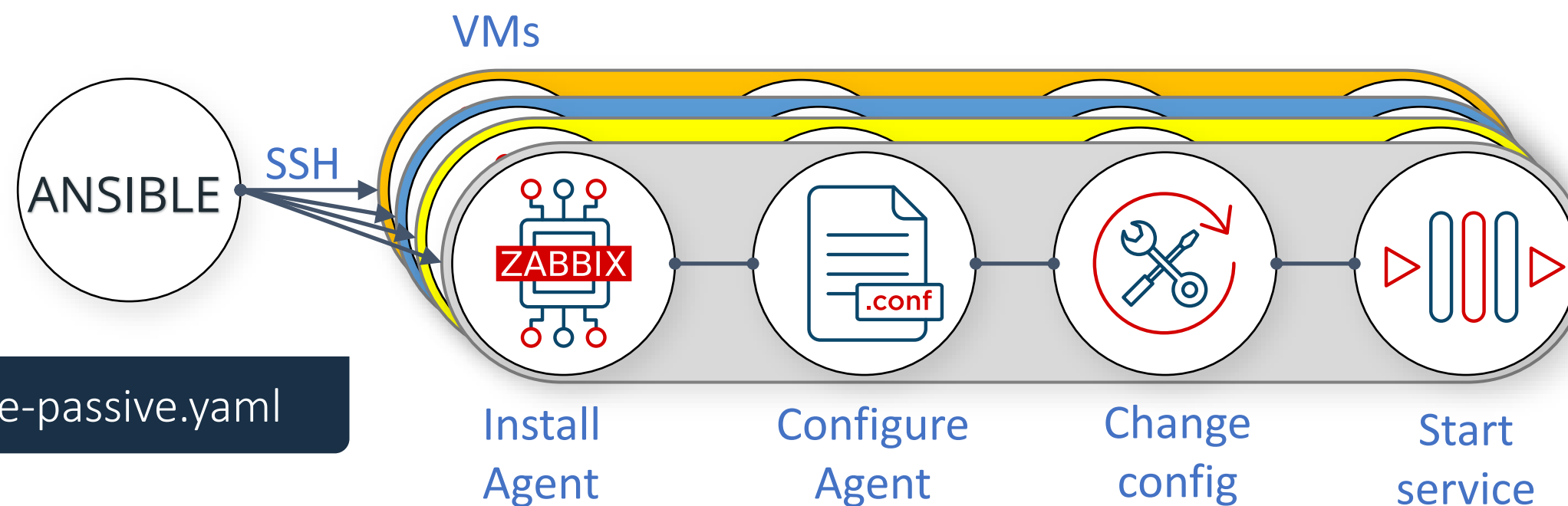
## Make changes dynamically

- Make changes to agent configuration
- Set different encryption settings
- Create/ modify host with community Zabbix module (user macro credentials, custom PSK encryption settings)

`community.zabbix.zabbix_host` module – Create/update/delete Zabbix hosts

```
deploy/  
└─┬─ playbook-agent2-active-passive.yaml  
  └─ inventory.ini
```

```
# ansible-playbook -i inventory.ini playbook-agent2-active-passive.yaml
```



# Ansible: deploying the Zabbix agent in active and passive mode

## Using shell commands

```
- name: Install and configure Zabbix Agent 2 active and passive (simple shell)
hosts: linux
become: yes
tasks:
- name: Setup Zabbix Agent2
  shell: |
  dnf install -y https://repo.zabbix.com/zabbix/7.4/release/centos/9/noarch/zabbix-release-latest-7.4.el9.noarch.rpm
  dnf install -y zabbix-agent2
  sed -i '/^Server=|^ServerActive=|^Hostnameltem=|^Hostname=/d' /etc/zabbix/zabbix_agent2.conf
  echo "Server={{ server_ip }}" >> /etc/zabbix/zabbix_agent2.conf
  echo "ServerActive={{ server_ip }}" >> /etc/zabbix/zabbix_agent2.conf
  echo "Hostnameltem=system.hostname[shorthost]" >> /etc/zabbix/zabbix_agent2.conf
  echo "HostMetadata={{ host_metadata }}" >> /etc/zabbix/zabbix_agent2.conf
  systemctl enable --now zabbix-agent2
- name: Show Zabbix Agent2 state
  shell: systemctl is-active zabbix-agent2
  register: agent_status
- name: Print agent status
  debug:
  msg: "{{ inventory_hostname }}" -> "{{ agent_status.stdout }}"
```

**playbook-shell-agent2-active-passive.yaml**

```
[linux]
134.209.250.73
138.68.101.217 host_metadata=mysql,production
# Group variable
[linux:vars]
host_metadata=linux,production
server_ip=165.227.137.207
```

**inventory.ini**

## Using Ansible modules

```
- name: Configure and deploy Zabbix Agent 2
hosts: linux
become: yes
tasks:
- name: Add Zabbix 7.0 repo for Centos
  dnf:
  name: https://repo.zabbix.com/zabbix/7.4/release/centos/9/noarch/zabbix-release-latest-7.4.el9.noarch.rpm
  state: present
- name: Install Zabbix agent2
  dnf:
  name: zabbix-agent2
  state: present
  update_cache: yes
- name: Configure Server & ServerActive, HostMetadata
  lineinfile:
  path: /etc/zabbix/zabbix_agent2.conf
  regexp: "^{{ item.key }}="
  line: "{{ item.key }}={{ item.value }}"
  loop:
  - { key: "Server", value: "{{ server_ip }}" }
  - { key: "ServerActive", value: "{{ server_ip }}" }
  - { key: "Hostnameltem", value: "system.hostname[shorthost]" }
  - { key: "HostMetadata", value: "{{ host_metadata }}" }
  notify: restart agent on config change
- name: Remove Hostname parameter
  lineinfile:
  path: /etc/zabbix/zabbix_agent2.conf
  regexp: "^Hostname="
  state: absent
- name: Enable and start service
  service:
  name: zabbix-agent2
  state: started
  enabled: yes
handlers:
- name: restart agent on config change
  service: { name: zabbix-agent2, state: restarted }
```

**playbook-agent2-active-passive.yaml**

# Deploying the Zabbix agent with Ansible

```
[root@testenv deploy]# ansible-playbook -i inventory.ini playbook-shell-agent2-active-passive.yaml
PLAY [Install and configure Zabbix Agent 2 a]
TASK [Gathering Facts] *****
ok: [138.68.101.217]
ok: [134.209.250.73]
TASK [Setup Zabbix Agent2] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
TASK [Show Zabbix Agent2 state] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
TASK [Print agent status] *****
ok: [134.209.250.73] => {
  "msg": "134.209.250.73 -> active"
}
ok: [138.68.101.217] => {
  "msg": "138.68.101.217 -> active"
}
PLAY RECAP *****
134.209.250.73      : ok=4    changed=0
138.68.101.217    : ok=4    changed=0

[root@testenv deploy]# ansible-playbook -i inventory.ini playbook-agent2-active-passive.yaml
PLAY [Configure and deploy Zabbix Agent 2] *****
TASK [Gathering Facts] *****
ok: [138.68.101.217]
ok: [134.209.250.73]
TASK [Add Zabbix 7.0 repo for Centos] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
TASK [Install Zabbix agent2] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
TASK [Configure Server & ServerActive, HostMetadata] *****
changed: [138.68.101.217] => (item={'key': 'Server', 'value': '165.227.137.207'})
changed: [134.209.250.73] => (item={'key': 'Server', 'value': '165.227.137.207'})
changed: [138.68.101.217] => (item={'key': 'ServerActive', 'value': '165.227.137.207'})
changed: [134.209.250.73] => (item={'key': 'ServerActive', 'value': '165.227.137.207'})
changed: [138.68.101.217] => (item={'key': 'HostnameItem', 'value': 'system.hostname[shorthost]'})
changed: [134.209.250.73] => (item={'key': 'HostnameItem', 'value': 'system.hostname[shorthost]'})
changed: [138.68.101.217] => (item={'key': 'HostMetadata', 'value': 'logs'})
changed: [134.209.250.73] => (item={'key': 'HostMetadata', 'value': 'linux'})
TASK [Remove Hostname parameter] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
TASK [Enable and start service] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
RUNNING HANDLER [restart agent on config change] *****
changed: [138.68.101.217]
changed: [134.209.250.73]
PLAY RECAP *****
134.209.250.73      : ok=7    changed=6    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
138.68.101.217    : ok=7    changed=6    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

## If something has changed in configuration (shell command) ?

```
[root@testenv deploy]# ansible-playbook -i inventory.ini playbook-shell-agent2-active-passive.yaml

PLAY [Install and configure Zabbix Agent 2 active and passive (simple shell)] *****

TASK [Gathering Facts] *****
ok: [138.68.101.217]
ok: [134.209.250.73]

TASK [Setup Zabbix Agent2] *****
changed: [138.68.101.217]
changed: [134.209.250.73]

TASK [Show Zabbix Agent2 state] *****
changed: [138.68.101.217]
changed: [134.209.250.73]

TASK [Print agent status] *****
ok: [134.209.250.73] => {
  "msg": "134.209.250.73 -> active"
}
ok: [138.68.101.217] => {
  "msg": "138.68.101.217 -> active"
}

PLAY RECAP *****
134.209.250.73      : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
138.68.101.217   : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Shell commands do not have memory of what changed

# If something has changed in configuration (modules) ?

```
[root@testenv deploy]# ansible-playbook -i inventory.ini playbook-agent2-active-passive.yaml

PLAY [Configure and deploy Zabbix Agent 2] *****

TASK [Gathering Facts] *****
ok: [138.68.101.217]
ok: [134.209.250.73]

TASK [Add Zabbix 7.0 repo for Centos] *****
ok: [138.68.101.217]
ok: [134.209.250.73]

TASK [Install Zabbix agent2] *****
ok: [134.209.250.73]
ok: [138.68.101.217]

TASK [Configure Server & ServerActive, HostMetadata] *****
ok: [138.68.101.217] => (item={'key': 'Server', 'value': '165.227.137.207'})
ok: [134.209.250.73] => (item={'key': 'Server', 'value': '165.227.137.207'})
ok: [138.68.101.217] => (item={'key': 'ServerActive', 'value': '165.227.137.207'})
ok: [134.209.250.73] => (item={'key': 'ServerActive', 'value': '165.227.137.207'})
ok: [138.68.101.217] => (item={'key': 'HostnameItem', 'value': 'system.hostname[shorthost]'})
ok: [134.209.250.73] => (item={'key': 'HostnameItem', 'value': 'system.hostname[shorthost]'})
ok: [138.68.101.217] => (item={'key': 'HostMetadata', 'value': 'logs'})
changed: [134.209.250.73] => (item={'key': 'HostMetadata', 'value': 'linux'})

TASK [Remove Hostname parameter] *****
ok: [138.68.101.217]
ok: [134.209.250.73]

TASK [Enable and start service] *****
ok: [138.68.101.217]
ok: [134.209.250.73]

RUNNING HANDLER [restart agent on config change] *****
changed: [134.209.250.73]

PLAY RECAP *****
134.209.250.73      : ok=7    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
138.68.101.217    : ok=6    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Easy to see if anything has been manually changed

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**Thank you for attention!**