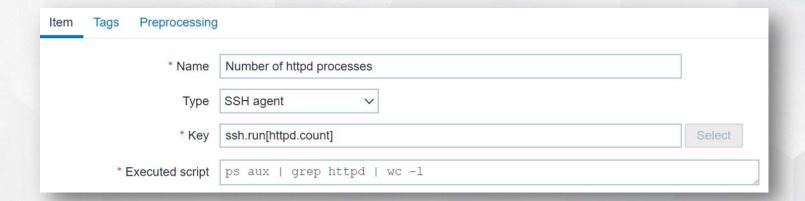


SSH checks are performed as agent-less monitoring:

- Performed by Zabbix server or proxy
- ◆Can execute any command on the remote host and return the result back to Zabbix
- ◆SSH checks provide two authentication methods:
 - ✓ A user/password pair
 - √ Key-file based (public/private key pair)





```
ps aux | grep httpd | wc -l
```

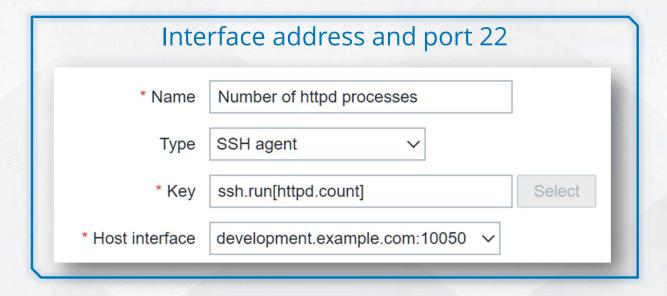


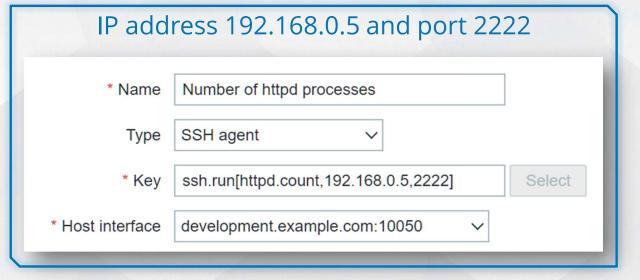
ps aux | grep httpd | wc -1
7

SSH item key has the following syntax:

ssh.run[unique description,<ip>,<port>,<encoding>]

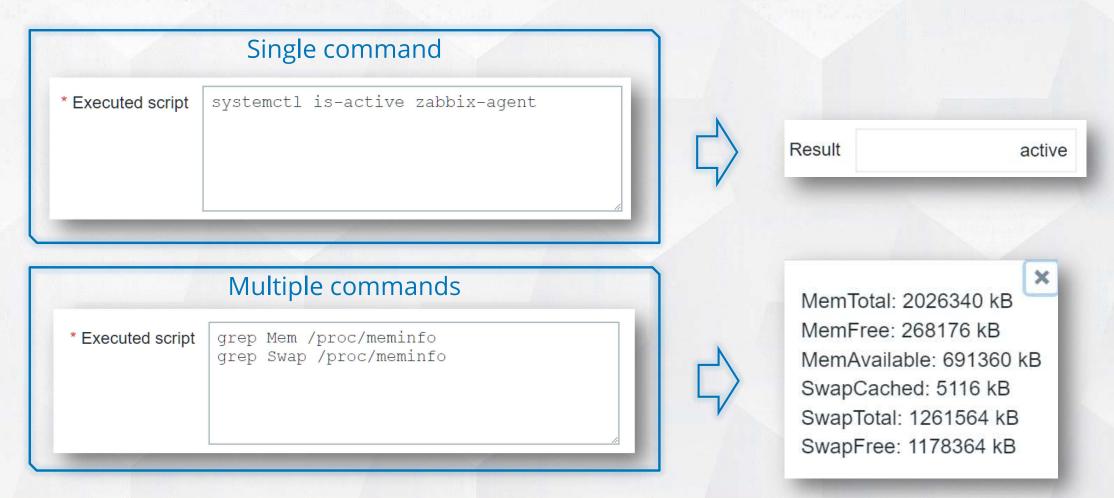
- ♣ Free-form description can be used
- ♣ If <ip> is not defined any interface's IP address or DNS name can be specified.
- ♣ Port 22 is used by default (not the port specified in the interface)
- *SSH item does not affect any interface availability and vice versa





The command executed by an SSH item is specified in the Executed script field:

- → Multiple commands can be executed one after another by placing them on a new line.
- ♣ In this case, returned values also will be formatted as multi-lined.
 - ✓ Dependent items can be used to extract values (discussed later)



To use password authentication, only a user/password pair is required

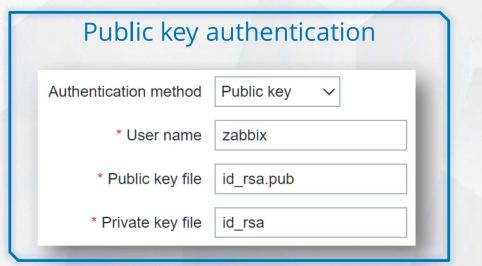
- ♣ Do not use privileged accounts (e.g., root) for monitoring, create a dedicated user
- ◆ Make sure that login credentials are valid, and no prompts are displayed

To use a key for authentication, additional server configuration is required:

◆ Create a directory where SSH keys will be stored (must be readable by zabbix OS user)

Option: SSHKeyLocation
Location of public and private keys for SSH checks and actions.
SSHKeyLocation=/home/zabbix/.ssh

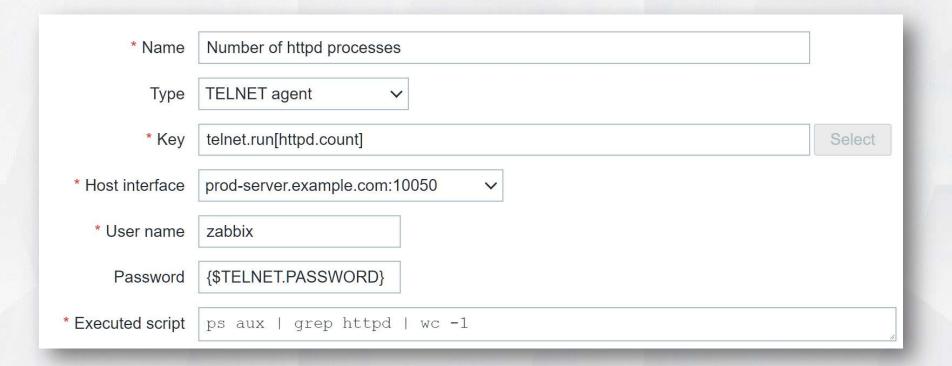




Telnet checks are performed similarly to SSH checks:

telnet.run[unique description,<ip>,<port>,<encoding>]

- ◆ Username and password are sent over the network in plain text
- ◆Supported characters that the shell prompt can end with:
 - **✓** \$ # > %



PRACTICAL SETUP

- 1) On your Training-VM-XX:
 - ✓ Link template: SSH Service
 - ✓ Check whether SSH service is available.
- 2) On your host create a new user (use SSH console):
 - ✓ Name: monitor
 - ✓ Password: sshremoteXX
- 3) In the "Template Basic":
 - ✓ Create a new item (Name: Memory available, Type: SSH agent,)
 - ✓ Create a new macro for SSH password authentication
 - ✓ Use "cat /proc/meminfo" command to collect data
- 4) Make sure that the item receives data from all Training-VM-XX hosts.