TECHBAST

How to configure monitoring firewall device Pfsense using Zabbix Agent
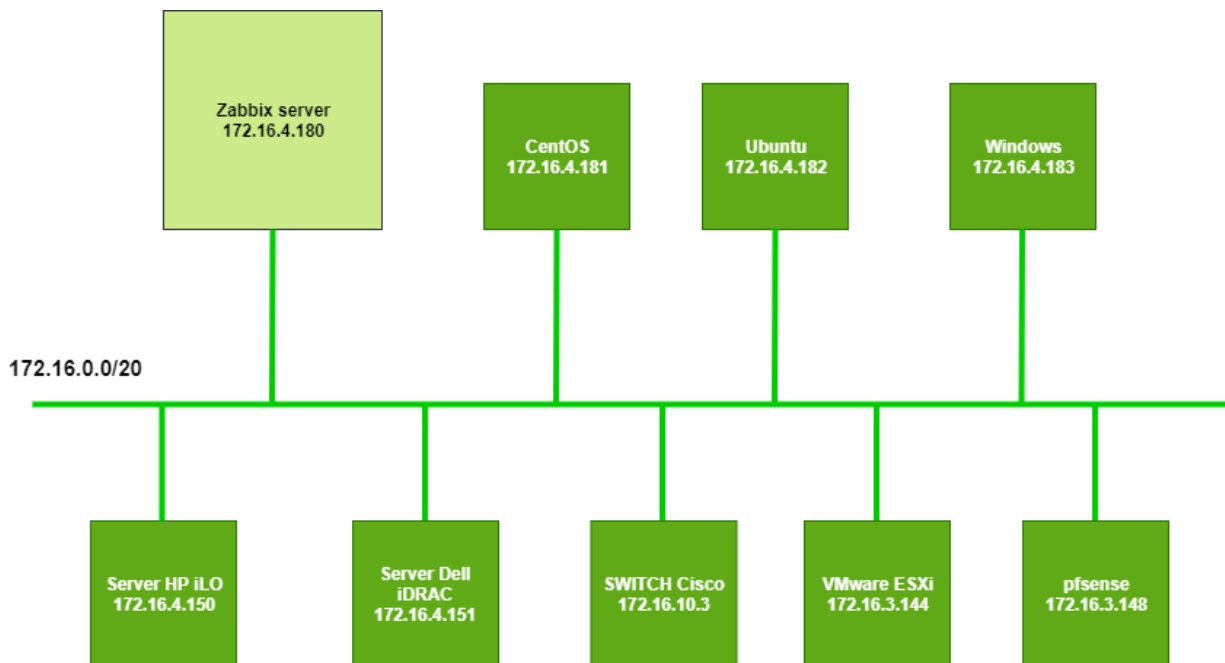
June 25, 2020 Vincent Security 0

Overview

For small to medium-sized systems, the use of Pfsense firewall is heavily used in various network models, easy to configure and management. And monitoring the operation of the Pfsense firewall is also import. Article guide How to user Zabbix for monitoring
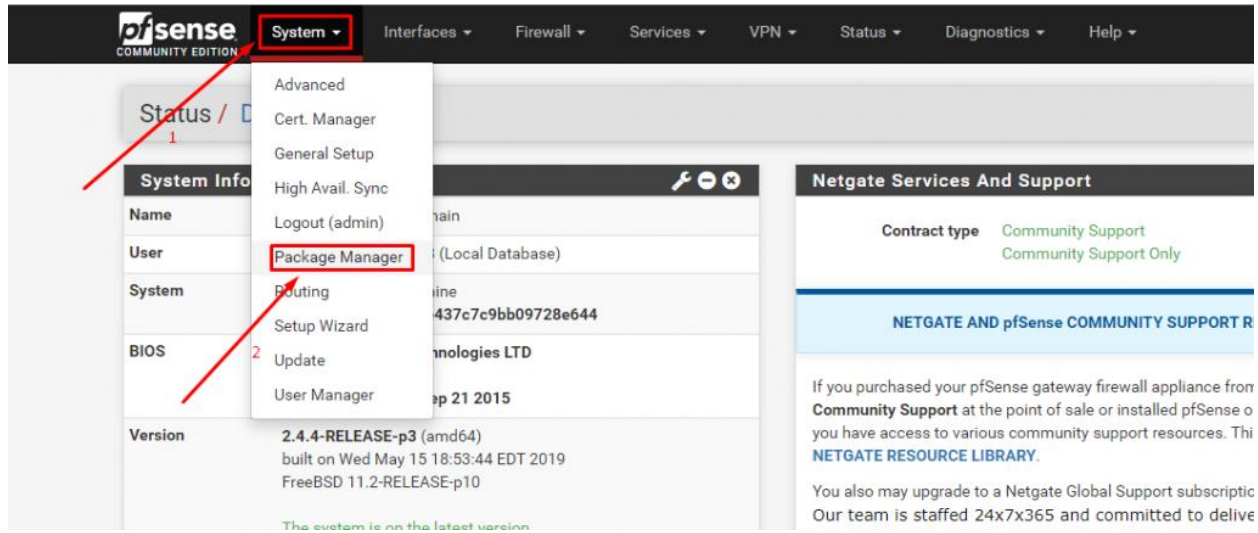
Diagram

How to configure

- Log in to **Pfsense** by Admin account

- Go to **System** -> Choose **Package Manager**

- In **Available packages** -> Enter **zabbix-agent** to Search item
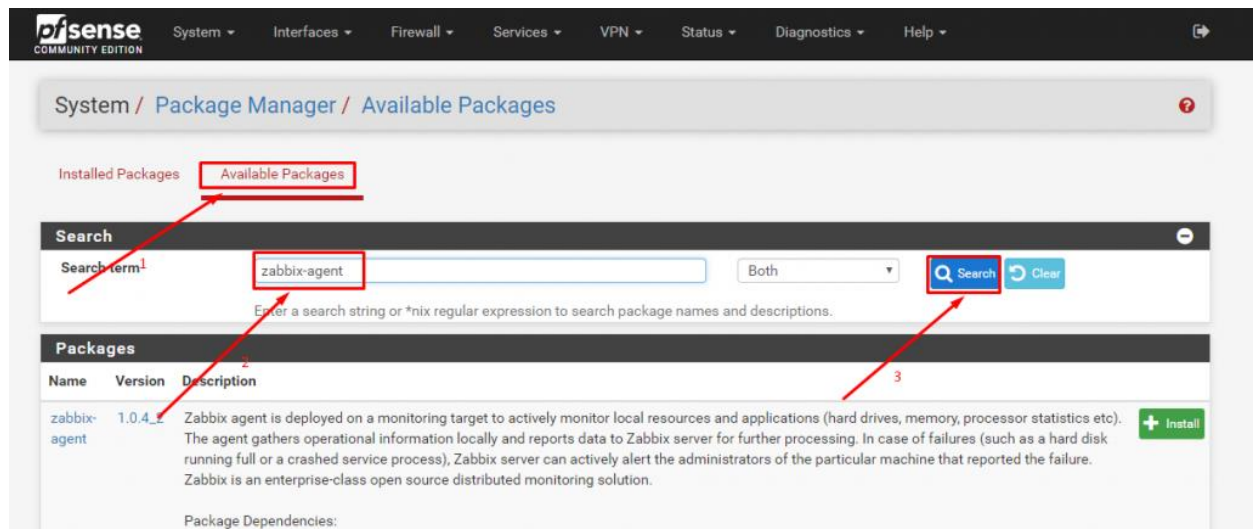
- Install **zabbix-agent version 4.4**

- Configure zabbix agent -> Choose **Services** -> Click **Zabbix Agent 4.4**
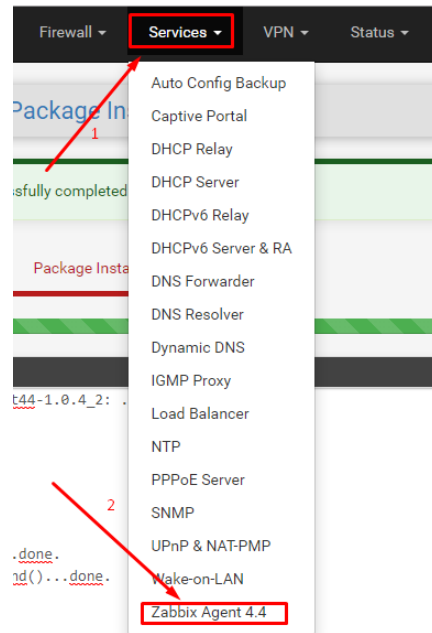
- Set up the parameters of the **Zabbix Agent Settings**
  - **Server**: IP address of Zabbix Server
  - **Server Active**: IP address of Zabbix Server
  - **Hostname**: Name the Pfsense firewall hostname
  - **Listen IP**: Enter **0.0.0.0**
  - **Listen Port**: Enter **10050**

- Set up the parameters of **TLS-RELATED Parameters**
  - In **TLS Connect**: Choose **psk**
  - In **TLS Accept**: Choose **psk**
  - In **TLS PSK Identity:** Enter name for key
  - In **PSK**: Enter **key**

-> Click **Save**

- Create firewall rules

- In **Action**: Choose **Pass**
- In **Interface**: Choose **WAN**
- In **Address Family**: Choose **IPv4**
- In **Protocol**: Choose **TCP**
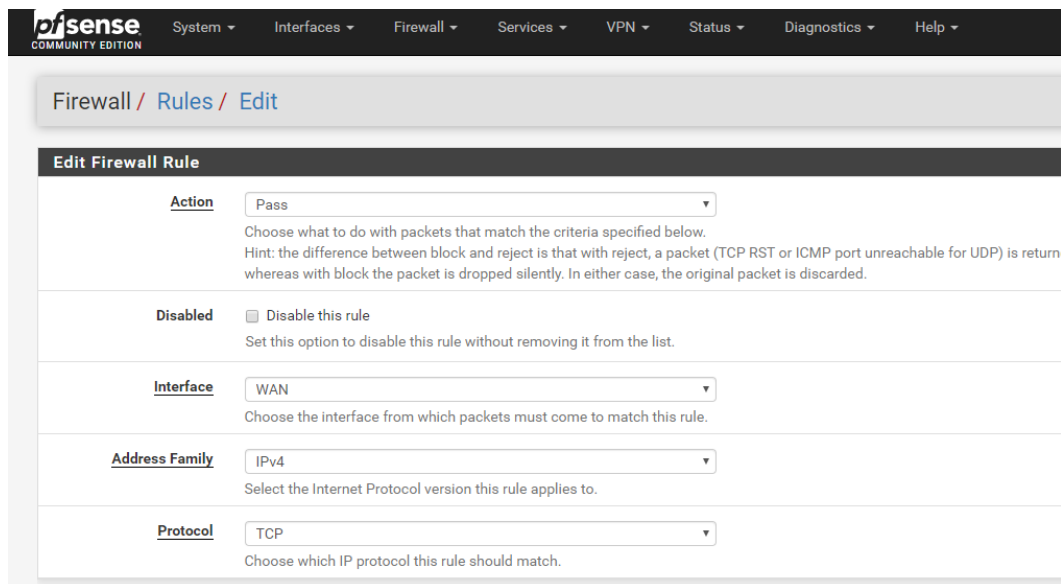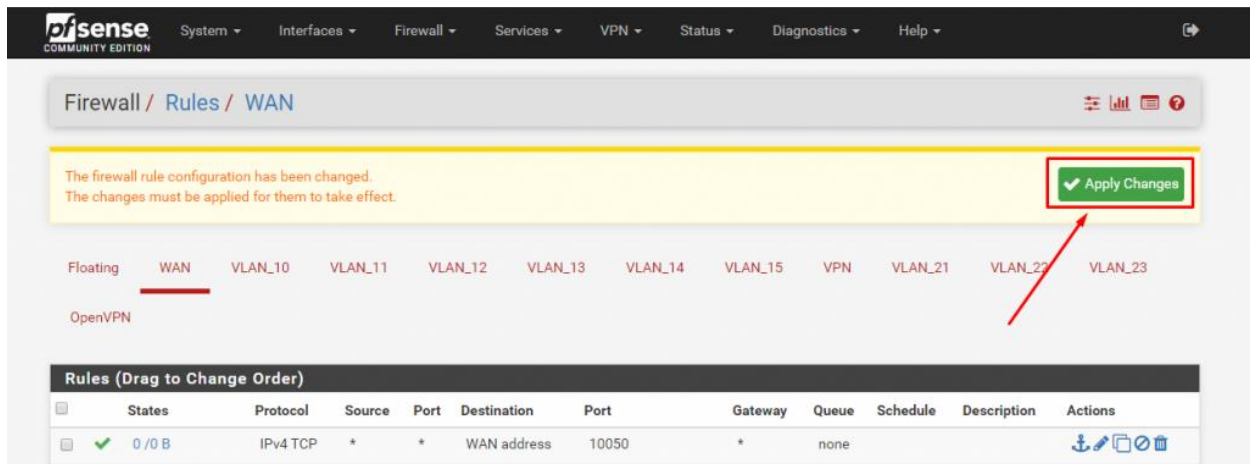
- In **Source**: Choose **any**
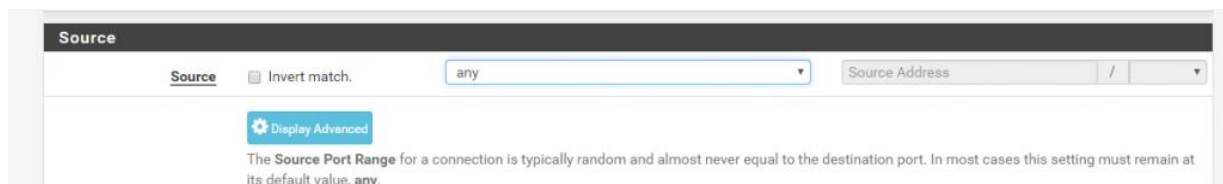
- In **Destination**
  - **Destination**: Choose **WAN address**
  - **Destination Port Range**: Form (**other**) Custom (**10050**) To (**other**) Custom (**10050**)

- On Zabbix Server -> Check information from Pfsense firewall

```
touch /tmp/key-pfsense-01
vi /tmp/key-pfsense-01
```

- Add key on firewall Pfsense to **/tmp/key-pfsense-01**
- Use check command

```
zabbix_get  -s  172.16.3.148  -k  "agent.version"  –tls-connect=psk  –tls-psk-
identity="key-pfsense-01" –tls-psk-file=/tmp/key-pfsense-01
```

- Login to web interface of Zabbix Server -> Choose **Configuration** -> Choose **Hosts** -> Click **Create host**

- In **Hostname**: Enter hostname
- In **Groups**: Choose **Linux servers**
- In **Agent interface**: Enter IP Address of Pfsense

▪ Go to **Templates**: Choose **Template OS FreeBSD** -> Click **Add**
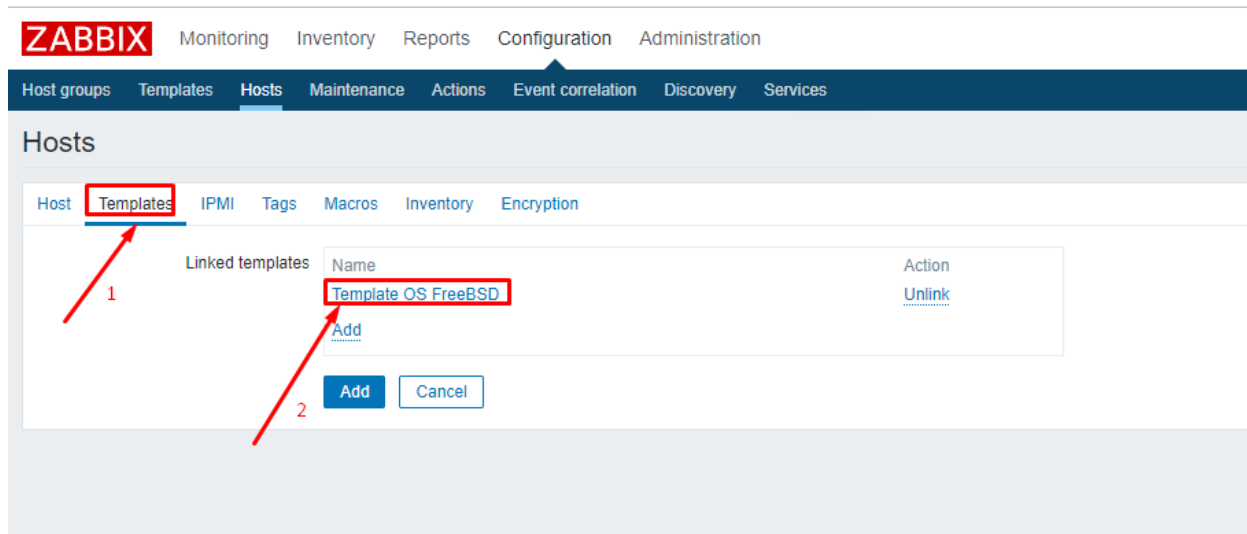
▪ Go to **Encryption**
  ▪ In **Connections to host**: Choose **PSK**
  ▪ In **Connections from host**: Choose **PSK**
  ▪ In **PSK Identity**: Enter name
  ▪ In **PSK**: Enter **key**

-> Click **Add**

- When added successfully

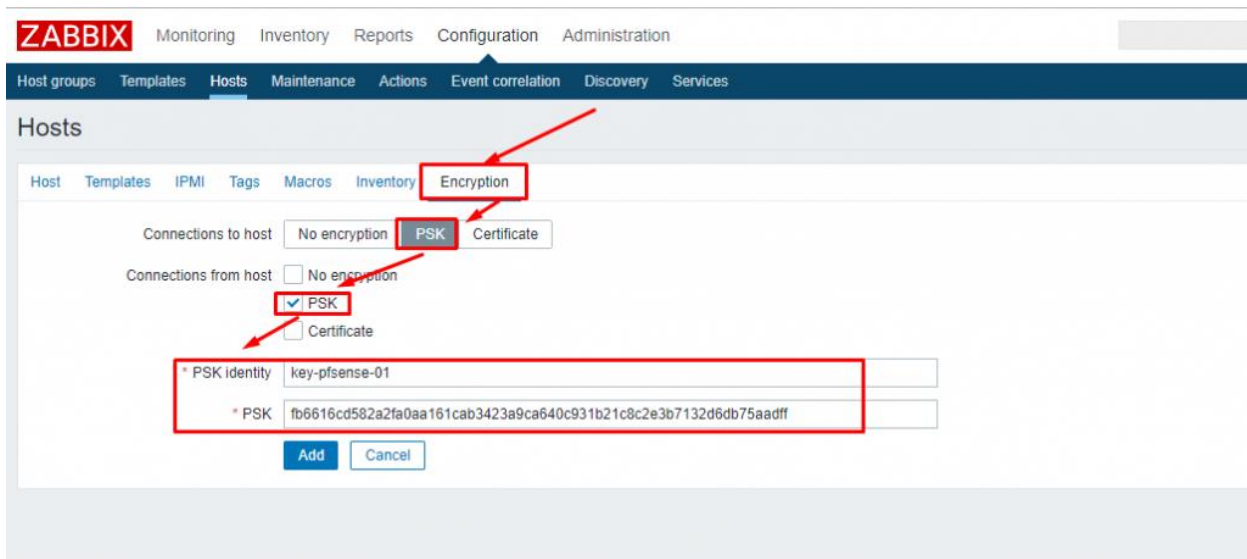| NH-pfSense.localdomain	Filesystems (10 Items)				
	Free disk space on /	2019-11-13 23:39:49	66.67 GB		Graph
	Free disk space on / (percentage)	2019-11-13 23:39:51	98.4621 %		Graph
	Free disk space on /var/run	2019-11-13 23:39:50	3.04 MB		Graph
	Free disk space on /var/run (percentage)	2019-11-13 23:39:52	97.0075 %		Graph
	Free inodes on / (percentage)	2019-11-13 23:39:47	99.806 %		Graph
	Free inodes on /var/run (percentage)	2019-11-13 23:39:48	96.771 %		Graph
	Total disk space on /				Graph
	Total disk space on /var/run				Graph
	Used disk space on /	2019-11-13 23:39:55	1.04 GB		Graph
	Used disk space on /var/run	2019-11-13 23:39:56	96 KB		Graph
NH-pfSense.localdomain	General (5 Items)				
	Host boot time	2019-11-13 23:33:45	2019-11-13 23:23:13		Graph
	Host local time	2019-11-13 23:39:57	2019-11-13 23:39:57	+00:01:00	Graph
	Host name	2019-11-13 23:33:56	NH-pfSense.localdomain		History
	System information	2019-11-13 23:34:01	FreeBSD NH-pfSense.locald...		History
	System uptime	2019-11-13 23:34:02	00:10:49	+00:05:09	Graph
NH-pfSense.localdomain	Memory (5 Items)				
	Available memory	2019-11-13 23:40:05	5.56 GB	-60 KB	Graph

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