

insightView

Install Guide (On-premise)

IT Infra Monitoring & H/W, S/W Inventory Solution

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oxyzn

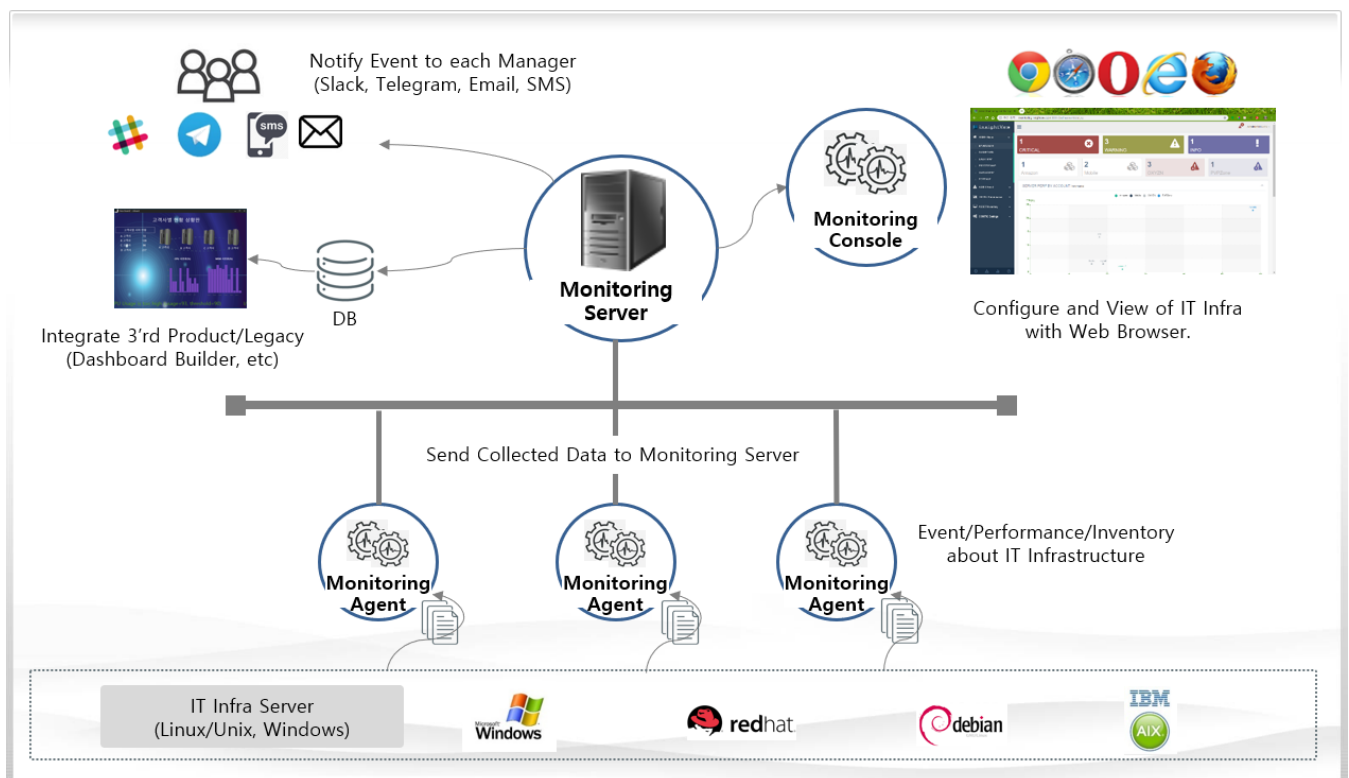
Contents

1. Overview.....	3
2. Server Installation	4
2.1. Requirements.....	4
2.2. Prerequisites.....	4
2.3. Increase OS performance settings.....	4
2.3.1. Increase the socket connection count.....	4
2.3.2. Increase the network inbound queue length.....	5
2.3.3. Set the overcommit memory	5
2.3.4. Increase the process resource limit	5
2.3.5. Disable THG config.....	5
2.4. Port	6
2.5. Download.....	6
2.6. Install and Start Server.....	6
2.7. Server Commands	7
2.7.1. Check the status	7
2.7.2. Start server	7
2.7.3. Stop server	7
3. Agent Installation	8
3.1. Requirements.....	8
3.2. Prerequisites.....	8
3.3. Download.....	9
3.4. Install and Start Agent.....	9
3.4.1. Linux/Unix :	9
3.4.2. Windows :.....	9
3.5. Agent Commands	9
3.5.1. Check the status	9
3.5.2. Start agent	10
3.5.3. Stop agent	10

1. Overview

The 'insightView' product is a IT infrastructure monitoring & H/W, S/W inventory auto discovery solution for cloud/idc server provider. You can monitor and manage servers of Linux/Unix, Windows. Also can monitor docker containers. It supports reliable operation of IT infrastructure servers through fault, performance and configuration monitoring.

It also provides efficient functions to intuitively identify and manage key status information for server and docker containers. It is provided on SaaS or On-premise.



- The main features are as follows:
 - ✓ Support monitoring and management for linux, unix and windows servers integrated
 - ✓ Delegate administrator account privileges through account group
 - ✓ Support integrated monitoring of servers and docker containers
 - ✓ Flexible management of monitoring items through application by task
 - ✓ Provide the convenience of monitoring configuration through provision of current status information
 - ✓ Support mapping of data property values for notification messages
 - ✓ Provide various notification methods for fault events (slacks, telegrams, etc.)

2. Server Installation

2.1. Requirements

The insightView Server must meet the follows.

OS	M/W	CPU	MEMORY	DISK	Etc
Linux (CentOS 7 64bit)	JDK 8	4 Core or higher	8 GB or higher	100 GB or higher	

* Requirement specifications may be higher depending on the operating environment.

2.2. Prerequisites

The insightView Server runs with JDK 8, so you must install it first. You can download and install it from the following sites.

Name	URL Address	Etc
OpenJDK	https://github.com/adoptopenjdk/adoptopenjdk/releases	
Oracle Java	https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html	

2.3. Increase OS performance settings

For stable service, adjust OS performance setting values as below on server OS.

2.3.1. Increase the socket connection count

- ① Check the current value as shown below.
`sysctl net.core.somaxconn`
- ② Increase the value as shown below.
`sudo sysctl -w net.core.somaxconn=2048`
- ③ Save to the configuration file.
`sudo vi /etc/sysctl.conf`
`net.core.somaxconn=2048`

2.3.2. Increase the network inbound queue length

- ① Check the current value as shown below.
`# sysctl net.core.netdev_max_backlog`
- ② Increase the value as shown below.
`# sudo sysctl -w net.core.netdev_max_backlog=30000`
- ③ Save to the configuration file.
`# sudo vi /etc/sysctl.conf`
`net.core.netdev_max_backlog=30000`

2.3.3. Set the overcommit memory

- ① Check the current value as shown below.
`# sysctl vm.overcommit_memory`
- ② Set the value as shown below.
`# sudo sysctl vm.overcommit_memory=1`
- ③ Save to the configuration file.
`# sudo vi /etc/sysctl.conf`
`vm.overcommit_memory=1`

2.3.4. Increase the process resource limit

- ① Check the current value as shown below.
`# ulimit -a`
- ② Increase the value as shown below.
`# ulimit -n 4096`
`# ulimit -u 4096`
- ③ Save to the configuration file.
`# sudo vi /etc/security/limits.conf`

```
*      soft   nofile  4096
*      hard   nofile  4096
*      soft   nproc   4096
*      hard   nproc   4096
```

2.3.5. Disable THG config

- ① Check the current 'Transparent huge pages' value as shown below.
`# cat /sys/kernel/mm/transparent_hugepage/enabled`
- ② If not [never], set the value to 'never' as shown below. (Notice: must be run as 'root' user)
`# echo never > /sys/kernel/mm/transparent_hugepage/enabled`
- ③ Save to the configuration file.

```
# sudo vi /etc/rc.local
echo never > /sys/kernel/mm/transparent_hugepage/enabled
```

* It should be set to an appropriate value according to the server operating environment.

2.4. Port

The insightVew server uses the default port for communication with the agent and the web console as shown below, so the corresponding port must be opened in the firewall.

Purpose	Default Port	Etc
Communication with Agents	18575, 18521	
Access for Web Console	9091, 13001	

2.5. Download

You can download the package of server from the following site.

Type	URL Address	Etc
Server	http://www.insightvew.com	

2.6. Install and Start Server

After download the server package, install as follows:

- ① Extract the downloaded package file.


```
# tar xvf ivmserver_linux_64bit_v<version>.tar
```
- ② Execute the install script.


```
# ./install.sh
```
- ③ Input the destination directory to install.
- ④ After installation is completed, modify the **JAVA_HOME** variable value of the following files with the JDK installed directory.


```
<installed directory>/tomcat/bin/catalina.sh
<installed directory>/jdbc/jdbcenv.cfg
```
- ⑤ Start the server as follows.


```
# cd <installed directory>
# ./ivmserver.sh strat
```

2.7. Server Commands

To start, stop and check the status of the server, proceed as follows.

2.7.1. Check the status

```
# ./ivmsserver.sh status
```

2.7.2. Start server

```
# ./ivmsserver.sh start
```

2.7.3. Stop server

```
# ./ivmsserver.sh stop
```

3. Agent Installation

3.1. Requirements

The insightView Agent must meet the follows.

OS	CPU	MEMORY	DISK	Etc
Linux/Unix, Windows (Amazon Linux 64bit, RedHat Enterprise 64bit, CentOS 64bit, Ubuntu 64bit, AIX 64bit, Windows Server 2008/2012/2016 64bit, Windows 7/10 64bit)	1 Core or higher	1 GB or higher	300 MB or higher	

* Requirement specifications may be higher depending on the operating environment.

3.2. Prerequisites

The insightView Agent needs the followings.

OS	Requirement	Etc
Linux/Unix	Needs the 'netstat', 'vmstat' command.	
	If H/W, S/W inventory collecting: - Needs to start agent with root account or sudo command	
Linux	If docker monitoring: - Needs installation of docker and add the user to the docker group (# sudo usermod -aG docker \$USER)	
	If network device monitoring: - Needs installation of net-snmp, net-snmp-utils package	
	If Oracle database monitoring: - Needs installation of Oracle client	
	If VMware monitoring: - Needs to enable ssh of ESXi server and modify /etc/ssh/sshd_config file (PasswordAuthentication yes)	
HP-UX	Needs the 'sar' command.	

3.3. Download

You can download the package of agent from the following site.

Type	URL Address	Etc
Agent	http://www.insightview.com	

3.4. Install and Start Agent

After download the agent package, install as follows:

3.4.1. Linux/Unix :

- ① Extract the downloaded ".tar" file.
tar xvf ivmagent_linux_64bit_v<version>.tar
- ② Execute the install script.
./install.sh
- ③ Input the destination directory to install.
- ④ **Server IP** is the **IP address of the insightView Server** installed in the previous step.
- ⑤ **Server Port** uses the default port(**18575**). If you made any changes, enter the changed port.
- ⑥ Start the agent. If you want to change the hostname for displaying, enter 'n' character and modify the 'Hostname' variable in the configuration file. And then start the agent.

3.4.2. Windows :

- ① Extract the downloaded ".zip" file.
- ② Execute the install file.
> install.exe
- ③ Input the destination directory to install.
- ④ **Server IP** is the **IP address of the insightView Server** installed in the previous step.
- ⑤ **Server Port** uses the default port(**18575**). If you made any changes, enter the changed port.
- ⑥ Verity that the **insightView Agent Service** is registered and started.

3.5. Agent Commands

To start, stop and check the status of the agent, proceed as follows. On Windows, check the Service.

3.5.1. Check the status

```
# ./ivmagent.sh status
```

3.5.2. Start agent

```
# ./ivmagent.sh start
```

3.5.3. Stop agent

```
# ./ivmagent.sh stop
```

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