

insightView

Admin Guide (On-premise)

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

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oxyzn

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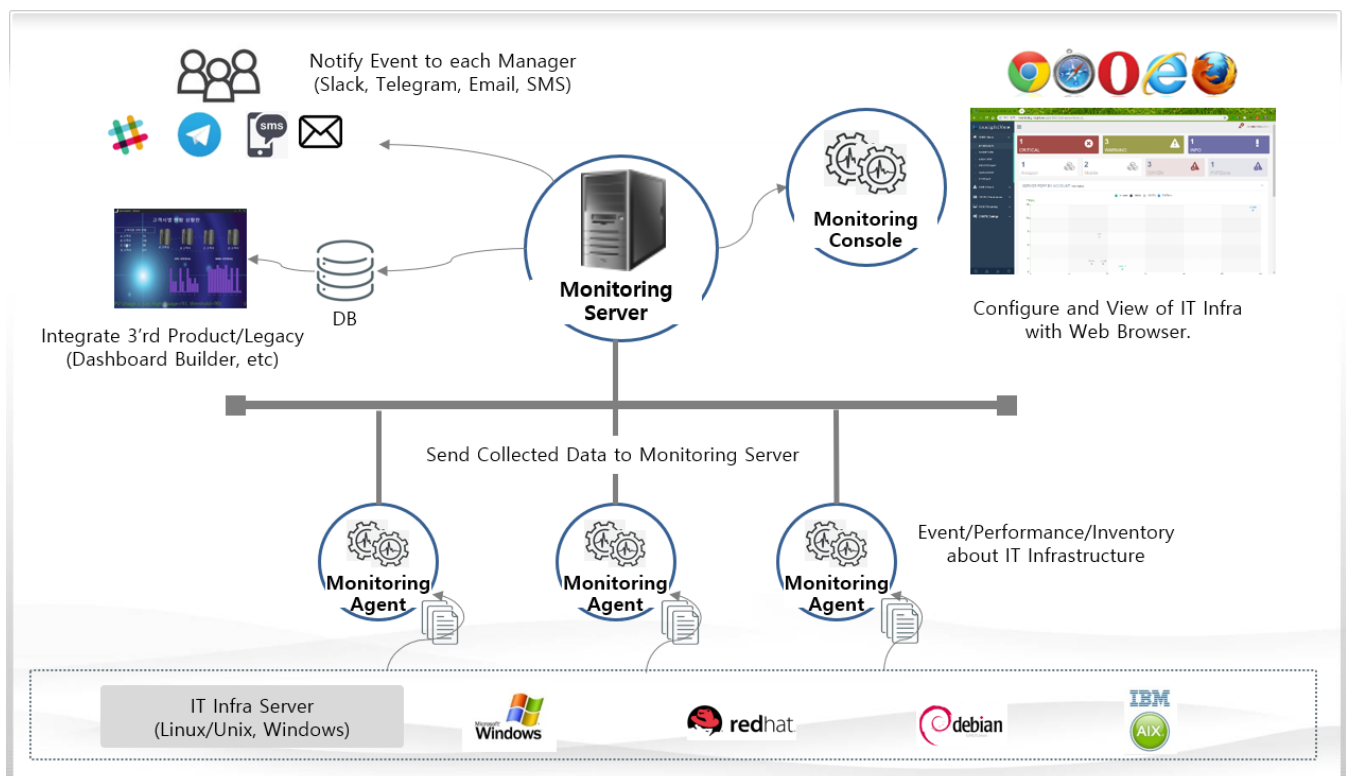
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1. Overview

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. Getting started

2.1. Check Server Status

Check the insightView Server's status as follows.

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

구분	명령어	비고
Check Status	# ./ivmserver.sh status	
Start Server	# ./ivmserver.sh start	
Stop Server	# ./ivmserver.sh stop	

2.2. Login

You can access insightView Console with web browser. Login with the administrator of solution user id(admin).

URL Address	Etc
http://<Server IP>:9091	

* The default port can be changed.

ID	Password(default)	Etc
admin	admin1!	

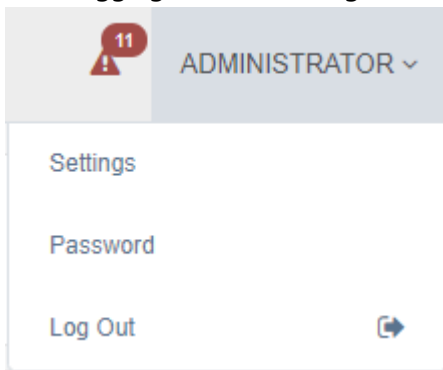
* The default password can be changed after login.

3. Setup and Configure

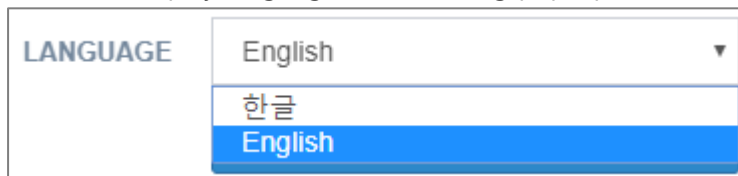
3.1. Set Language

The display language of the logged in id can be set as shown below. After setting and logging in again, the menu will be displayed to the set language.

- ① After logging in, click the login account area on the upper right and select '**Settings**' menu.



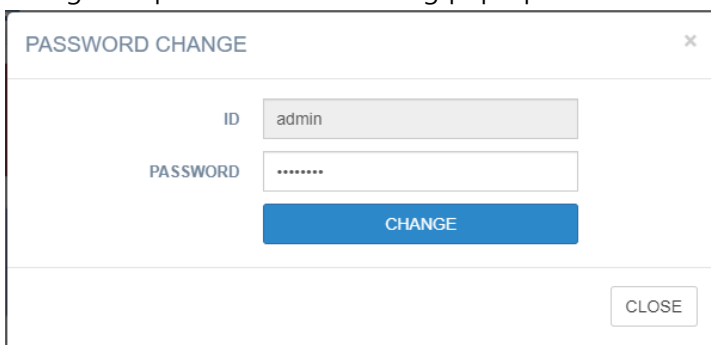
- ② Select the display language in the setting pop-up window.



3.2. Change Password

Set the password for the user id you logged in as shown below.

- ① After logging in, click the login account area on the upper right and select '**Password**' menu.
- ② Change the password in the setting pop-up window.

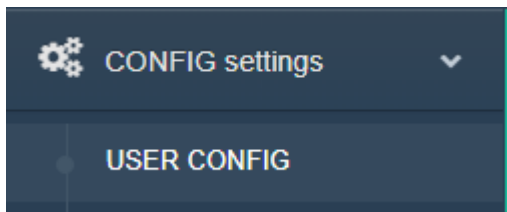


3.3. Add Account Group

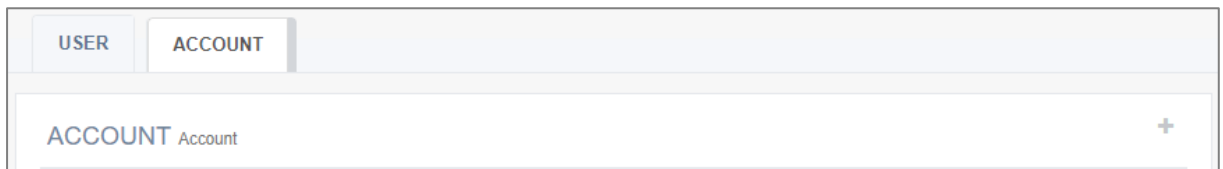
The InsightVew product manages the customers and departments into account groups, and can delegate the management by assigning administrator accounts for each account group to manage servers and users.

Add an account group as shown below. Account groups can only be added by administrator of solution (admin).

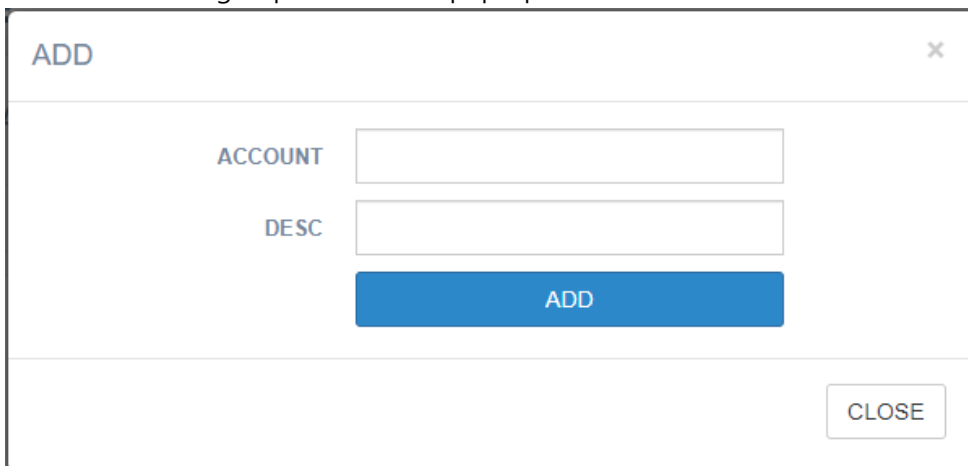
- ① Click the '**CONFIG> USER CONFIG**' menu.



- ② Click the '**ACCOUNT**' tab and then click '+' menu on right upper.



- ③ Add the account group in the 'Add' pop-up window.

A screenshot of a 'ADD' pop-up window. The window has a title bar with 'ADD' and a close button. Inside, there are two input fields: 'ACCOUNT' and 'DESC'. Below the input fields is a blue 'ADD' button. At the bottom right of the window is a 'CLOSE' button.

- ④ After adding an account group, assign the managed server to be managed in the account group.

3.4. Add User

Add user to the account group you have added to manage that account group.

Add user as follows. Users with administrator privileges can be added only the administrator of solution (admin), and regular users can be added by user with administrator privileges within the account group that they have added.

- ① Click the '**CONFIG> USER CONFIG**' menu.
- ② Click the '**USER**' tab and then click '+' menu on right upper.



- ③ Add the user in the 'Add' pop-up window. Assign '**MANAGER**' or '**USER**' for privilege in the 'TYPE' field. If you assign it as an 'MANAGER', you have administrative privileges on the managed resources in that account group.

The 'ADD' pop-up window contains the following fields:

- ACCOUNT: A dropdown menu with a blue arrow icon to its right.
- TYPE: A dropdown menu.
- USERNAME: A text input field.
- ID: A text input field.
- PASSWORD: A text input field.
- EMAIL: A text input field.
- PHONE: A text input field containing the value '010-0000-0000'.
- SLACK: A text input field.
- TELEGRAM: A text input field.
- LANGUAGE: A dropdown menu.

At the bottom of the form is a blue 'ADD' button. At the bottom right of the pop-up window is a 'CLOSE' button.

* The user's email, phone, slack and telegram id are used for notification of fault messages.

3.5. Assign Servers

Assign the managed server to the user id that you added so that the user can manage it. You can assign a server when adding a user id or from the user list.

USER
ASSIGN SERVER

SERVER LIST Node

Show entries Search:

TYPE	HOSTNAME	OS	IP
Linux	fortest	CentOS	
Linux	hudic	CentOS	
Linux	ivm	CentOS	
Linux	signal	CentOS	
Linux	awsec2	Amazon	
Windows	hsnote	Microsoft Windows 10 Home	

Total: 6 rows

Previous 1 Next

ASSIGNED Node

Show entries Search:

TYPE	HOSTNAME	OS	IP
Linux	ivm	CentOS	
Linux	fortest	CentOS	
Linux	hudic	CentOS	
Linux	signal	CentOS	
Linux	awsec2	Amazon	

Total: 5 rows

Previous 1 Next

SAVE

3.6. Configure History DB

Configure history DB so that 3'rd products and data can be utilized through database connection. The history DB supports MySQL, SQL Server, Oracle, PostgreSQL and so on.

Before configure it, it is necessary to create the table by executing the sql file corresponding to the database type.

```
<installed directory>/sql/<db type>-ivm-create.sql
```

The history DB is configured as below.

- ① Click the '**CONFIG> ENVIRONMENT**' menu.
- ② In the '**HISTORY DB**' tab, input information for the database and enable '**USE**' option.

The InsightVew product is connected with database through JDBC, and the following JDBC driver file and additional setting are required depending on the type of database to be linked.

Database	JDBC Driver File	Etc
Oracle	ojdbc8.jar or ojdbc6.jar	
DB2	db2jcc4.jar, db2jcc_license_cu.jar	

If you are using an Oracle or DB2 database, set up JDBC server additionally as follows.

- ① Copy the above JDBC Driver file to the following directory.

```
<installed directory>/jdbc/
<installed directory>/tomcat/lib/
```

- ② Uncomment the corresponding database driver information in the JDBC configuration file.

```
<installed directory>/jdbc/jdbcenv.cfg
```

- ③ Restart the JDBC server and Tomcat server as follows.

```
# cd <installed directory>/jdbc
# ./jdbcctl.sh stop; ./jdbcctl.sh start
# cd <installed directory>/tomcat/bin
# ./shutdown.sh; ./startup.sh
```

3.7. Configure Notification

Configure to notify users of fault messages that occurred from managed resources. The fault message notifications support email, phone message(DB), slack, telegrams, and more.

3.7.1. Email Notification

Configure the SMTP server information as follows so that fault messages are notified by email. The notification destination is based on the email information of the user id.

- ① Click the '**CONFIG> NOTIFICAITON**' menu.
- ② In the '**EMAIL**' tab, input information for the SMTP server and enable '**USE**' option.

SMTP SERVER Email

USE

SEVERITY CRITICAL WARNING INFO

SERVER IP

PORT

ENCRYPTION TLS SSL N/A

ID

PASSWORD

SENDER

SUBJECT FORMAT

SUBJECT ENCODING

CONTENT TYPE

TEMPLATE

MAX REPEAT

TIMEOUT(sec)

RETRY

[SAVE](#)

The location of the email html template file is as below and you can modify the content and format of the template file.

```
<installed directory>/bin/email_alarm.html
```

3.7.2. Phone Message(DB) Notification

Configure the database information and SQL statement to send fault messages to the database for phone message. If the database is Oracle or DB2, you need the JDBC server settings described above. The notification destination is based on the phone number of the user id.

- ① Click the '**CONFIG> NOTIFICAITON**' menu.
- ② In the '**SMS(DB)**' tab, input information for the database, SQL statement and enable '**USE**' option.

- Note: If a '\$' character is included in the SQL syntax schema name, the variable mapped with the actual data is replaced with a '#' character as shown below.
 - When using general mapping variables:
insert into SMSTABLE (severity, message, mobilenum) VALUES ('\$severity', '\$message', '\$receiver')
 - When the schema name contains a '\$' character, replace to '#' character the mapping variable:
INSERT INTO OPS\$SMS.TSDGBM (COL1, COL2, COL3, COL4, COL5, COL6, COL7, COL8, COL9) VALUES (lpad(OPS\$SMS.SQ_DGBM02_MSGID.NextVal, 20,'0'),lpad(OPS\$SMS.SQ_DGBM02_MSGID.NextVal, 20,'0'),'SMSSM00001','1','DGBMS','SM', '#receiver', '#severity', '#message')

3.7.3. Slack Notification

Configure the Slack information as follows so that fault messages are notified by Slack. The notification destination is based on the Slack ID of the user id.

- ① Click the '**CONFIG> NOTIFICAITON**' menu.
- ② In the '**SLACK**' tab, input information for the Slack Channel, Webhook URL and enable '**USE**' option.

SLACK CHANNEL Slack

USE

SEVERITY CRITICAL WARNING INFO

CHANNEL NAME

Webhook URL

MESSAGE FORMAT

SEND CHANNEL

MAX REPEAT

TIMEOUT(sec)

RETRY

SAVE

In order to be notified to the Slack, you first need to create a Slack Channel and get its Channel Webhook URL information. Creating the Slack Channel and getting the Webhook URL is as follows.

- ① Create a workspace on the Slack website (<http://slack.com>).
- ② Log in to the workspace and create a channel with the 'Add a channel' menu.
- ③ Select 'Incoming webbook' from the bottom 'Apps' menu, then select the channel as Webbook in the 'Settings' menu and check the 'Webbook URL' information.
- ④ Invite notification target users to the channel that you created and add them.

3.7.4. Telegram Notification

Configure the Telegram information as follows so that fault messages are notified by Telegram. The notification destination is based on the Telegram ID of the user id.

- ① Click the '**CONFIG> NOTIFICAITON**' menu.
- ② In the '**TELEGRAM**' tab, input information for the Telegram Bot, Channel ID and enable '**USE**' option.

TELEGRAM BOT Telegram

USE

SEVERITY CRITICAL WARNING INFO

BOT ID

BOT TOKEN

MESSAGE FORMAT

SEND CHANNEL

CHANNEL ID

MAX REPEAT

TIMEOUT(sec)

RETRY

[SAVE](#)

In order to be notified to the Telegram, you first need to create a Telegram Bot, Channel and get Bot Token and Channel ID information. Creating the Telegram Bot and getting the Channel ID is as follows.

- ① Install the Telegram App and use Botfather to create a Bot and check the bot ID and bot token values.
- ② Create a 'public' channel via the 'Create Channel' menu.
- ③ Add the bot you created on that channel as an administrator.
- ④ Enter the URL as below in your web browser and check the 'id' value in the result screen.
https://api.telegram.org/bot<token>/sendMessage?chat_id=@<channel name>&text=Hello
- ⑤ Set the 'id' value of the channel to the Channel ID value and switch the channel to private.
- ⑥ Each notify target user searches for and adds the bot within the Telegram app and sends any message to the bot.

3.8. Request License Code

You can request license code with the number of agents and server key value.

- ① Click the '**CONFIG> ENVIRONMENT**' menu.
- ② In the '**LICENSE**' tab, copy the '**SERVER KEY**' value and send to us for request license code.

4. Monitoring Configure

4.1. Web URL Monitoring

The insightView product support access to web URLs and access time monitoring.

The Web URL monitoring is configure as follows.

4.1.1. Task Config

First, check whether the 'URL Monitoring' task of the agent is active. It is disabled by default. If disabled, enable as follows.

- ① Click the '**CONFIG> TASK CONFIG**' menu.
- ② From the top right agent selection menu, select the appropriate agent and select the settings icon for the 'URL Monitoring' task.
- ③ Change the 'USE' value to '**YES**' in the task settings and save it.

MODIFY	
TASKNAME	URL Monitoring
VERSION	1.0
RUNTIME(sec)	87100
INTERVAL(sec)	15
USE	YES
MODIFY	
CLOSE	

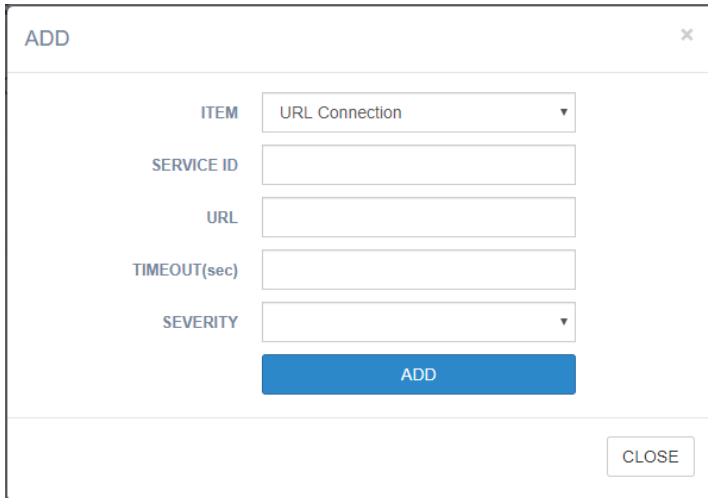
4.1.2. Config Monitoring Item

Configure individual URL items to monitor.

- ① Click the '**CONFIG> SERVER MONITORING**' menu.
- ② Click the '**URL**' tab and then click '+' menu on right upper.

LOGFILE	PORT	URL	TASK CONFIG
CONFIG LIST Config			
+			

- ③ In the Add settings pop-up window, set information such as the URL to be monitored and the timeout. Use the 'SERVICE ID' value as the key value to distinguish individual monitoring items.



4.2. Docker Container Monitoring

The insightView product support monitoring of the status of startup and resource usage of the Docker container.

The Docker Container monitoring is configure as follows.

4.2.1. Prerequisites

You need to be installed docker on the server where the agent is installed, and add the account that runs the insightView agent to the group of the docker with the following command.

```
# sudo usermod -aG docker $USER
```

4.2.2. Task Config

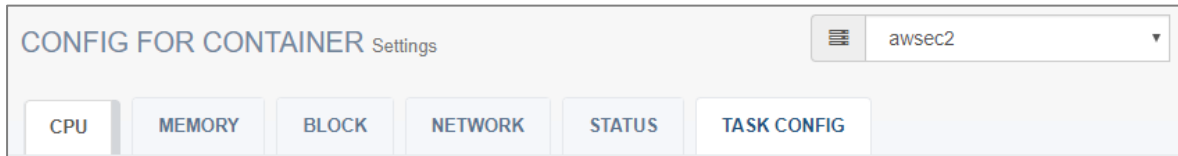
Check whether the 'Docker Container Monitoring' task of the agent is active. It is disabled by default. If disabled, enable as follows.

- ① Click the '**CONFIG> TASK CONFIG**' menu.
- ② From the top right agent selection menu, select the appropriate agent and select the settings icon for the 'Docker Container Monitoring' task.
- ③ Change the 'USE' value to '**YES**' in the task settings and save it.

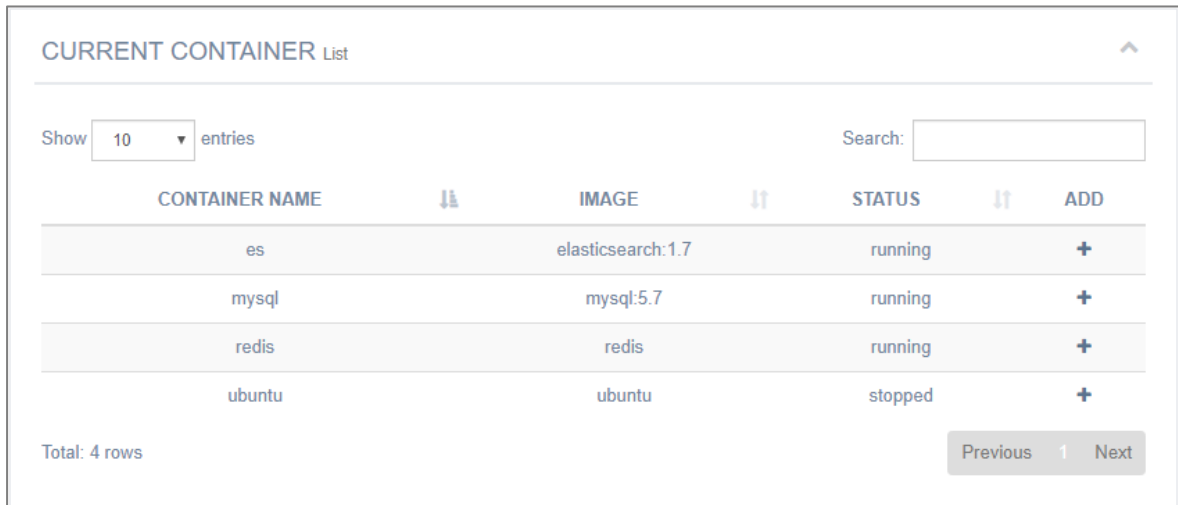
4.2.3. Config Monitoring Item

Configure detailed monitoring item for the docker container.

- ① Click the '**CONFIG> CONTAINER MONITORING**' menu.
- ② Click the tab for each item, and then config detailed monitoring settings for that item.



- ③ For 'STATUS' monitoring, select and add from the container status list shown.



4.3. MySQL/MariaDB Database Monitoring

The insightView product support monitoring of the resource usage of the MySQL/MariaDB Database. The MySQL/MariaDB Database monitoring is configure as follows.

4.3.1. Config Monitoring Item

Monitoring settings must be set on the Linux server where the insightView agent is installed.

- ① Click the '**CONFIG> MONITORING CONFIG> DATABASE**' menu and select 'Account Group', 'Server Group', 'Server' on the upper select box.



- ② Set the MySQL/MariaDB server and user information in the '**DB CONFIG**' tab.

DB SETTING Database

USE

SERVER IP

PORT

CharSet

ID

PASSWORD

SAVE

③ Change the 'USE' value to 'YES' in the task settings and save it.

CONFIG LIST Config

Show entries Search:

TYPE	HOSTNAME	TASKNAME	VERSION	RUNTIME(sec)	INTERVAL(sec)	USE	ACTION
Linux	signal	MySQL Monitoring	1.0	87400	300	YES	

Total: 1 rows Previous 1 Next

④ After data is collected, add config values by click '+' menu in the 'DATABASE', 'TABLE' tab.

CURRENT DATABASE List

Show entries Search:

DATABASE	DATA SIZE(MB)	INDEX SIZE(MB)	TOTAL SIZE(MB)	ADD
ivmdb	16	28	44	+

Total: 1 rows Previous 1 Next

⑤ Add config values by click '+' menu in the 'PERFORMANCE' tab.

The screenshot shows a modal window titled 'ADD' with a close button (X) in the top right corner. The window contains several configuration fields:

- ITEM:** A dropdown menu with 'Database Connection Count' selected.
- THRESHOLD:** A dropdown menu with 'Database Connection Count' and 'Database Query Count' as options.
- CONDITION:** An empty dropdown menu.
- CONTINUOUS:** An empty text input field.
- SEVERITY:** An empty dropdown menu.
- ACT SCRIPT:** An empty text input field.

At the bottom of the form area, there is a blue 'ADD' button. In the bottom right corner of the modal, there is a 'CLOSE' button.

4.4. Oracle Database Monitoring

The insightVew product support monitoring of the resource usage of the Oracle Database. The Oracle Database monitoring is configure as follows.

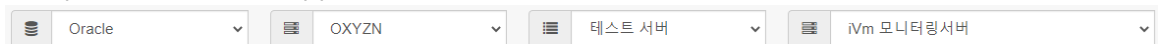
4.4.1. Prerequisites

Oracle client must be installed on the linux monitoring agent.

4.4.2. Config Monitoring Item

Monitoring settings must be set on the Linux server where the insightVew agent is installed.

- ① Click the '**CONFIG > MONITORING CONFIG > DATABASE**' menu and select 'Account Group', 'Server Group', 'Server' on the upper select box.



- ② Set the Oracle server and user information in the '**DB CONFIG**' tab.

DB SETTING Database

USE

HOST

PORT

Oracle Home

Service Name

ID

PASSWORD

* Oracle client must be installed on the agent.

SAVE

③ Change the 'USE' value to **'YES'** in the task settings and save it.

CONFIG LIST Config

Show entries Search:

TYPE	HOSTNAME	TASKNAME	VERSION	RUNTIME(sec)	INTERVAL(sec)	USE	ACTION
Linux	ivm	Oracle Monitoring	1.0	87500	300	YES	

Total: 1 rows Previous 1 Next

④ After data is collected, add config values by click '+' menu in the **'TABLESPACE'** tab.

⑤ Add config values by click '+' menu in the **'DATABASE'**, **'PERFORMANCE'** tab.

ADD

ITEM

THRESHOLD

CONDITION

CONTINUOUS

SEVERITY

ACT SCRIPT

ADD

CLOSE

4.5. Apache Tomcat Monitoring

The insightView product support monitoring of the resource usage of the Apache Tomcat Server. The Apache Tomcat Server monitoring is configure as follows.

4.5.1. Prerequisites

You must enable the '**Manager**' on the Apache Tomcat Server.

- ① Add access rights in the Tomcat 'tomcat-users.xml' configuration file.

```
# vi <Tomcat installed directory>/conf/tomcat-users.xml

<tomcat-users xmlns="http://tomcat.apache.org/xml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
  version="1.0">

  <role rolename="manager-gui"/>
  <role rolename="manager-script"/>
  <role rolename="manager-jmx"/>
  <role rolename="manager-status"/>
  <user username="<아이디>" password="<암호>"
  roles="manager-gui,manager-script,manager-jmx,manager-status"/>
</tomcat-users>
```

- ② Set permission as below so that it can be accessed from outside.

```
# vi <Tomcat installed directory>/webapps/manager/META-INF/context.xml

<Context antiResourceLocking="false" privileged="true" >
  <Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="*" />
  <Manager
    sessionAttributeValueClassNameFilter="java\.lang\.(?:Boolean|Integer|Long|Number|string)|org\.
    apache\.catalina\.filters\.CsrpPreventionFilter|LruCache(?:\d*)?|java\.util\.(?:Linked)?HashMa
    p"/>
</Context>
```

- ③ Restart Tomcat Server.

```
# <Tomcat installed directory>/bin/shutdown.sh
```

```
# <Tomcat installed directory>/bin/startup.sh

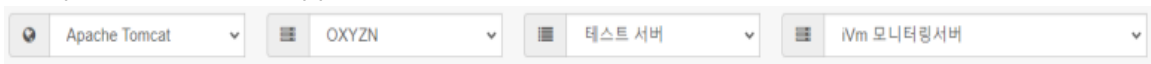
Connect to the web browser as shown below and check if the data is displayed normally.

http://<Tomcat ServerIP>:9091/manager
```

4.5.2. Config Monitoring Item

Configure monitoring on the insightView Console.

- Click the '**CONFIG> MONITORING CONFIG> WEB/WAS**' menu and select 'Account Group', 'Server Group', 'Server' on the upper select box.



- Set the Apache Tomcat server information in the '**SERVER CONFIG**' tab.

- Change the 'USE' value to '**YES**' in the task settings and save it.

TYPE	HOSTNAME	TASKNAME	VERSION	RUNTIME(sec)	INTERVAL(sec)	USE	ACTION
Linux	ivm	Apache Tomcat Monitoring	1.0	86400	10	YES	[Edit] [Delete]

- After data is collected, change default config values in the '**MEMORY POOL**', '**THREAD**' tab.

4.6. Apache HTTPD Server Monitoring

The insightView product support monitoring of the resource usage of the Apache HTTPD Server. The Apache HTTPD Server monitoring is configure as follows.

4.6.1. Prerequisites

You must enable the '**server-status**' on the Apache HTTPD Server.

- ① Add the below contents in the Apache HTTPD config file (httpd.conf).

```
# vi httpd.conf

<IfModule status_module>
<Location /server-status>
    SetHandler server-status
    Require all granted
</Location>
</IfModule>
```

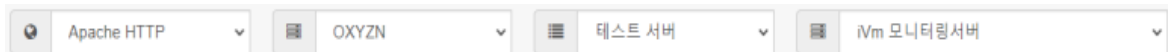
- ② Connect to the web browser as shown below and check if the data is displayed normally.

```
http://<HTTPD Server IP>:8081/server-status
```

4.6.2. Config Monitoring Item

Configure monitoring on the insightView Console.

- ① Click the '**CONFIG> MONITORING CONFIG> WEB/WAS**' menu and select 'Account Group', 'Server Group', 'Server' on the upper select box.



- ② Set the Apache HTTPD server information in the '**SERVER CONFIG**' tab.

- ③ Change the 'USE' value to 'YES' in the task settings and save it.

TYPE	HOSTNAME	TASKNAME	VERSION	RUNTIME(sec)	INTERVAL(sec)	USE	ACTION
Linux	ivm	Apache HTTP Server Monitoring	1.0	86400	10	YES	

- ④ After data is collected, change default config values in the 'PERFORMANCE' tab.

4.7. NginX Server Monitoring

The insightVew product support monitoring of the resource usage of the NginX Server. The NginX Server monitoring is configure as follows.

4.7.1. Prerequisites

You must enable the 'nginx_status' on the NginX Server.

- ① Change value on the NginX config file (nginx.conf).

```
# vi nginx.conf

..

listen    8082;

..
```



```
location /server_status {
    stub_status on;
    access_log off;
    allow all;
}
...
```

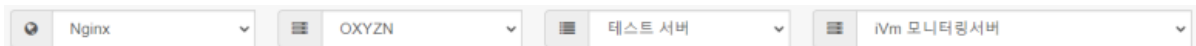
- ② Connect to the web browser as shown below and check if the data is displayed normally.

http://<NginX Server IP>:8082/server_status

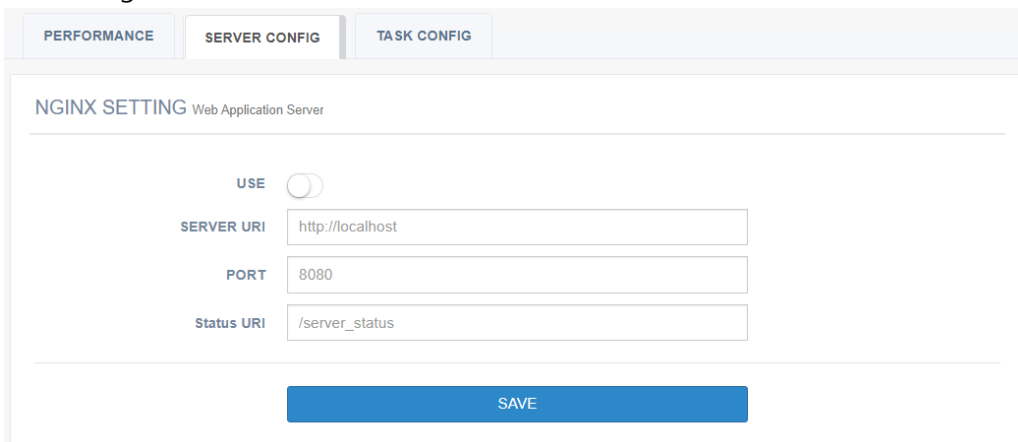
4.7.2. Config Monitoring Item

Configure monitoring on the insightView Console.

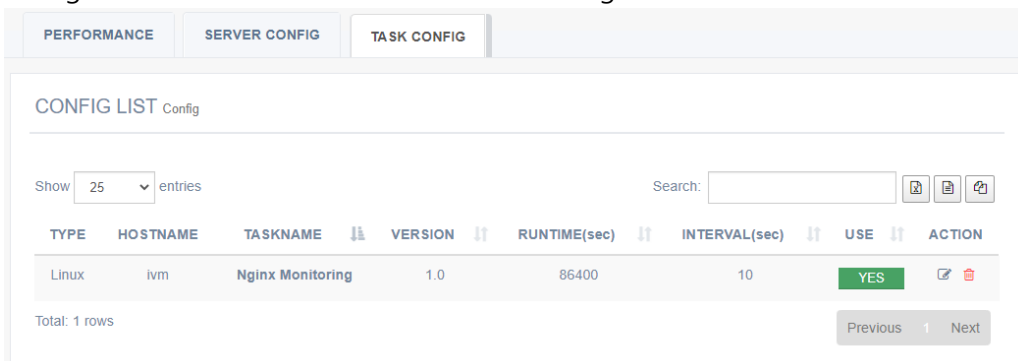
- ① Click the '**CONFIG > MONITORING CONFIG > WEB/WAS**' menu and select 'Account Group', 'Server Group', 'Server' on the upper select box.



- ② Set the NginX server information in the '**SERVER CONFIG**' tab.



- ③ Change the 'USE' value to '**YES**' in the task settings and save it.



- ④ After data is collected, change default config values in the '**PERFORMANCE**' tab.

4.8. Dashboard Integration

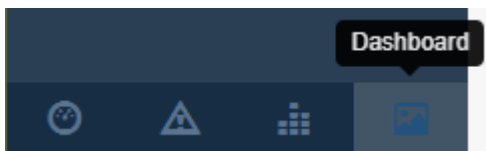
The insightVew product is provided by default in conjunction with Grafana (version 7.5.11) dashboard. The default login information is as follows.

ID	Password(default)	Etc
admin	admin1!	

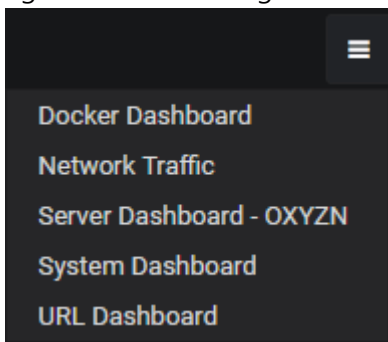
* The default password can be changed after login.

You can see the dashboard below. And, in addition to the built-in dashboard screen, you can create additional dashboard screens using data associated with the insightVew product.

- ① Select the '**Dashboard**' icon menu at the bottom of the main menu.



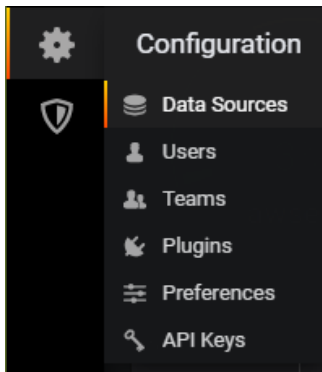
- ② When login screen is displayed, login with the above ID and default password information.
- ③ The existing 'Home' dashboard is displayed by default and you can select another dashboard from the right dashboard navigation.



4.8.1. Change Data Source

The Data Source for the History DB defined by default should be changed to the history database information set in the previous step. You can change the Data Source as follows.

- ① Log in to the dashboard and select '**Configuration**> **Data Sources**' menu on the left main menu.



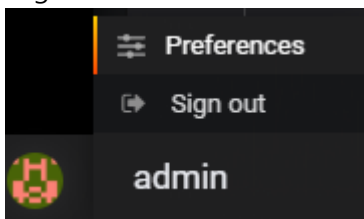
- ② Select 'ivmhist' data source from the data source list and change it to the history database information set in the previous step. If the database type is not MySQL, use the existing 'ivmhist' data source settings to create a data source. (Data Source Name: ivmhist)



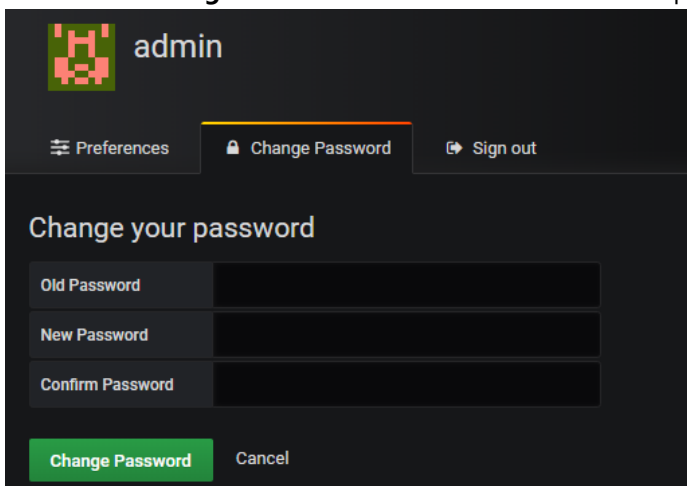
4.8.2. Change Password

The default password for the 'admin' account can be changed as follows.

- ① Log in to the dashboard and select '**Preferences**' menu on the left main menu.



- ② Select the '**Change Password**' tab on the account setup screen to change the password.



Appendix 1. Event Properties

Event property variable values that can be used in the subject format or message format in the 'Notification Settings' menu in the management settings are as follows.

Variable	Description	Etc
\$hostname	Hostname	
\$hostalias	Host Alias	
\$receiver	Receiver	
\$category	Category	
\$ostype	OS Type of Host	
\$source	Source	
\$subsource	Sub-source	
\$alertgroup	Alert Group	
\$alertkey	Alert Key	
\$severity	Severity	
\$durationsec	Duration Time(Sec)	
\$value	Result Value	
\$threshold	Threshold	
\$cond	Condition	
\$itemalias	Item Name of Monitoring	
\$message	Message of Event	

Appendix 2. Support Information

▷ Product Download

The insightView product can be download from the following website.

Type	Content	Etc
Download Website	http://www.insightview.com	

▷ Feedback

For the insightView product and other enquiries, please contact our website.

Type	Content	Etc
Vendor Website	http://www.oxyzn.co.kr	
Email	help@oxyzn.co.kr	

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