

# Monitoring Dashboard

You can check the monitoring information aggregated by the service group unit defined by the customer.

The Monitoring Dashboard service provides three menus.

## 1. Service Dashboard

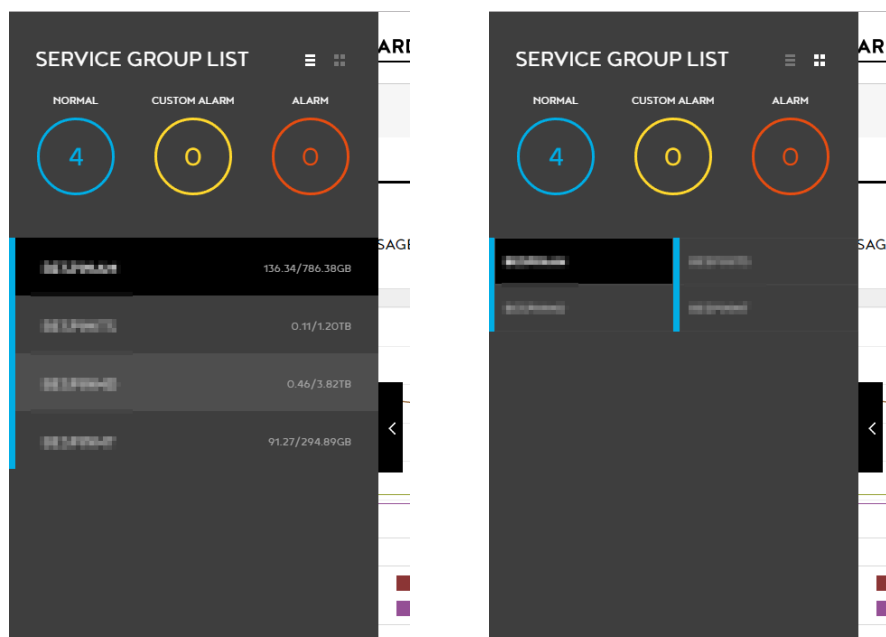
Provides monitoring of infrastructure resources and alarms for abnormal infrastructure threshold.

Monitoring Dashboard > Service Dashboard

### 1.1. Service Group List

Shows the service group list and provides convenient navigation between target services you want to monitor.

Provides information with the service list of the customer managed by the person in charge and incurred alarm summary.



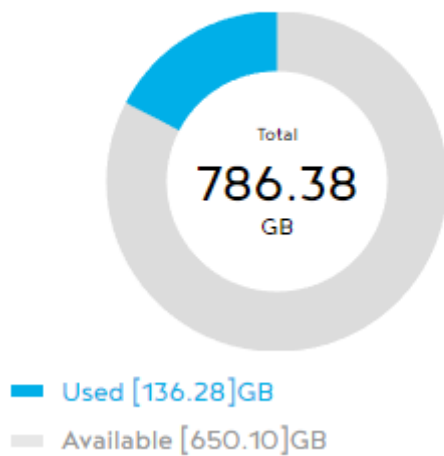
### 1.2. Service Summary

Overall status, summary, and figures of the monitoring services are indicated in charts and graphs for easy recognition, efficiently providing the information the monitoring personnel need.

Monitoring Dashboard > Service Dashboard > Service Summary



## Storage



### 1.2.3. Today's Alarm Info

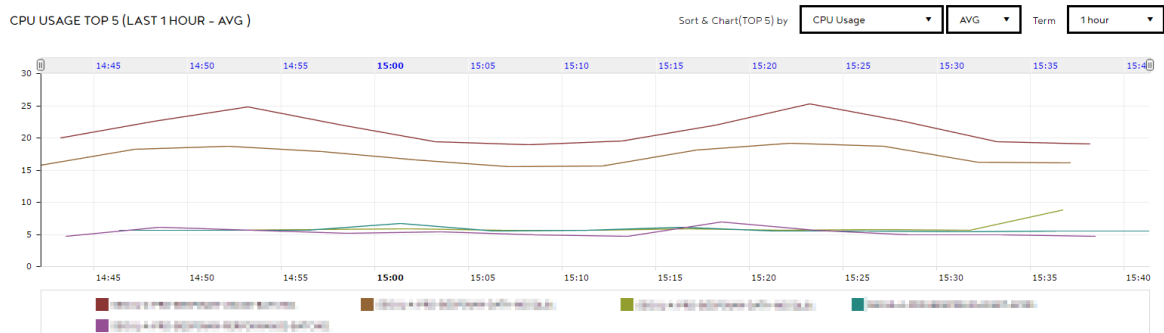
Shows the server and other relevant information of the alarms that incurred on the day for an immediate check.

## Today's Alarm Info

ROLE	SERVER	ALARM
Every Servers are working normally		

### 1.2.4. Change trend of top 5 servers

You can review the change trend of the top 5 servers in usage per CPU, Memory, Disk, Queue, and Throughput; you can easily set the order sequence and collection term depending on your interest.



### 1.2.5. Performance status of the top 5 servers

Based on the selected index among 5 main indexes, you can monitor the performance status of the top 5 servers.

RANK	ROLE	SERVER NAME	STATUS	CPU USAGE(%)	DISK USAGE(%)	MEMORY USAGE(%)	QUEUE LENGTH(#)	THROUGHPUT(KB/s)
1	BATCH	MOUL-A-PROD-BESPINAM-ALERT-WEB01	<span></span>	<div><div></div></div> 21.30	<div><div></div></div> 36.04	<div><div></div></div> 69.16	1.12083	1.78
2	NOSQL	MOUL-A-PROD-BESPINAM-ALERT-WEB02	<span></span>	<div><div></div></div> 17.22	<div><div></div></div> 6.90	<div><div></div></div> 11.87	0.99500	0.53
3	ADMIN	MOUL-A-PROD-BESPINAM-ALERT-WEB03	<span></span>	<div><div></div></div> 6.01	<div><div></div></div> 8.62	<div><div></div></div> 29.97	0.05364	1.01
4	API	MOUL-A-PROD-BESPINAM-ALERT-WEB04	<span></span>	<div><div></div></div> 5.71	<div><div></div></div> 12.22	<div><div></div></div> 30.88	0.10417	0.00
5	BATCH	MOUL-A-PROD-BESPINAM-ALERT-WEB05	<span></span>	<div><div></div></div> 5.33	<div><div></div></div> 33.67	<div><div></div></div> 25.97	0.17667	0.24

### 1.3. Alarms

You can search the incurred alarm summary per day or term. It provides metric information based on the incurred time for the progress status of the incurred/stopped alarms and its cause analysis.

Monitoring Dashboard > Service Dashboard > Alarm



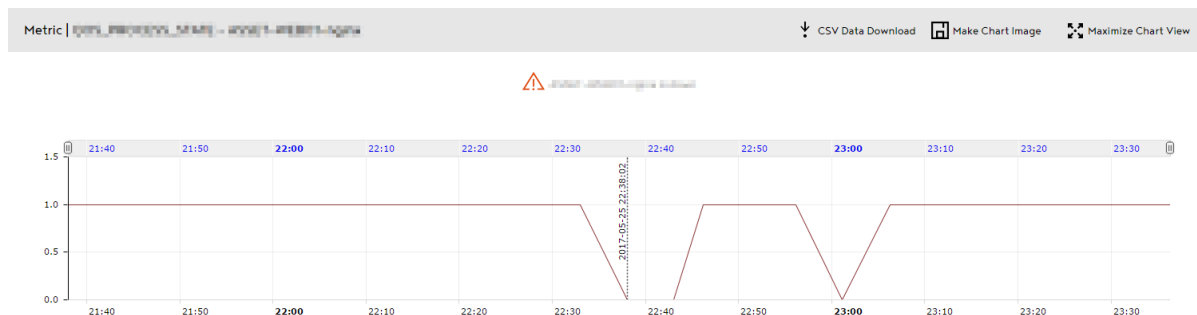
#### 1.3.1. Alarm List

Shows the alarm list, where you can easily search for the alarm progress status per day or term. Opened alarms and custom alarms are indicated in a different color in the background.



### 1.3.4. QoS Alarm Chart

You can see the usage for each CPU & Memory, Disk, Throughput, and Queue Length of the server per hour, to check the hour with the most and least usage. It also provides necessary information for adjusting the scale.



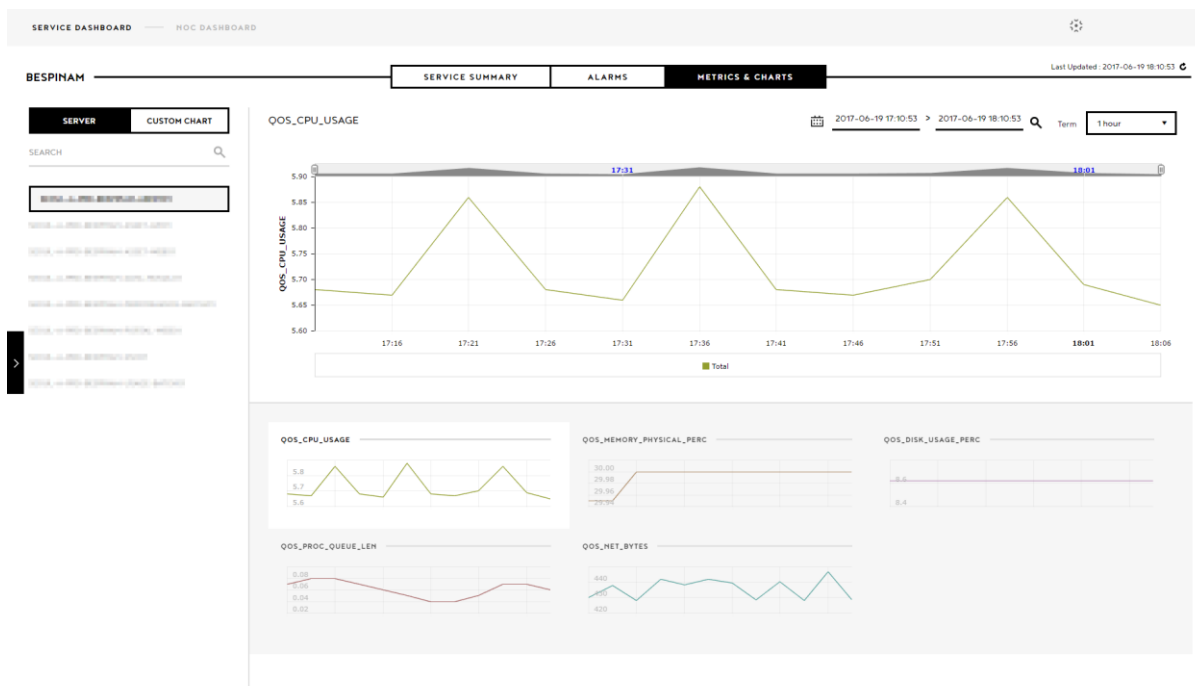
## 1.4. Metrics & Charts

### 1.4.1. Server

You can see the usage of CPU / Memory / Disk / Queue / Network in graphs, by setting the term per server for each service.

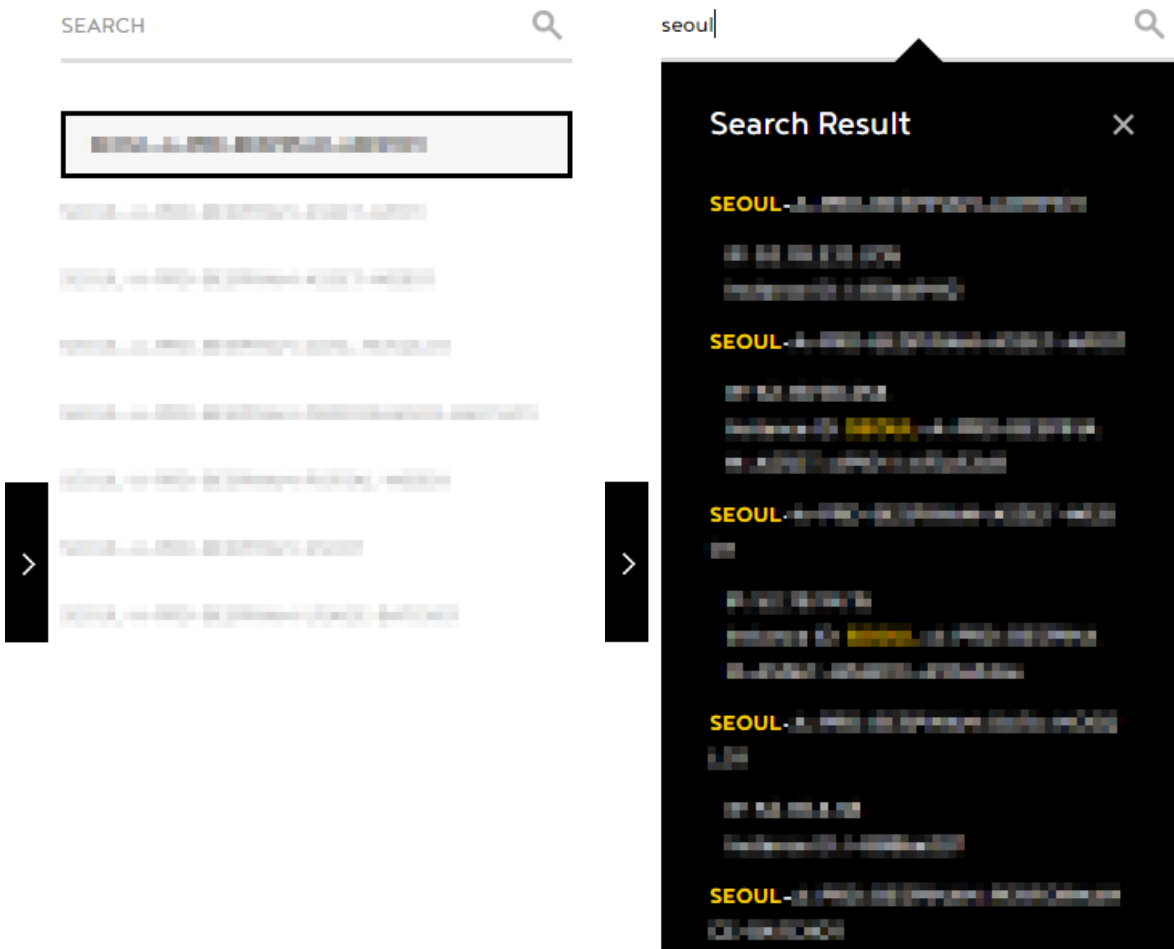
You can check all 5 performances in a graph, or select and enlarge a graph.

Monitoring Dashboard > Service Dashboard > Metrics & Charts > Server



#### 1.4.1.1. Server List

You can check and search the list of each server. If you select a server, you can see the main five metrics in a graph.

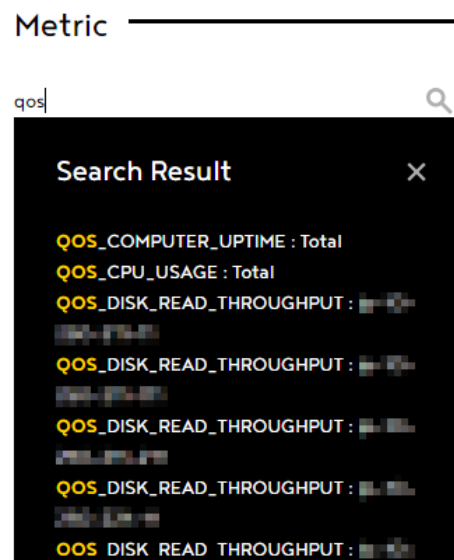
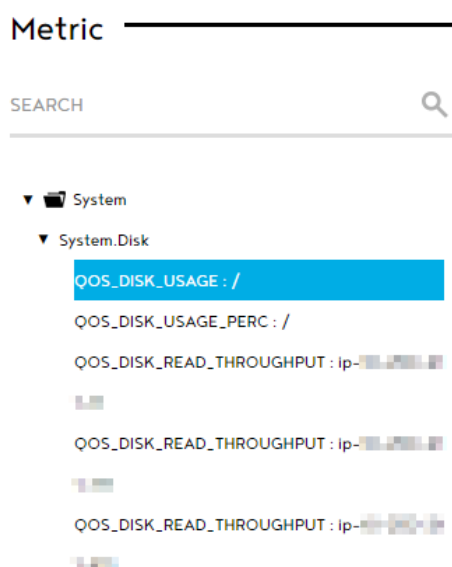
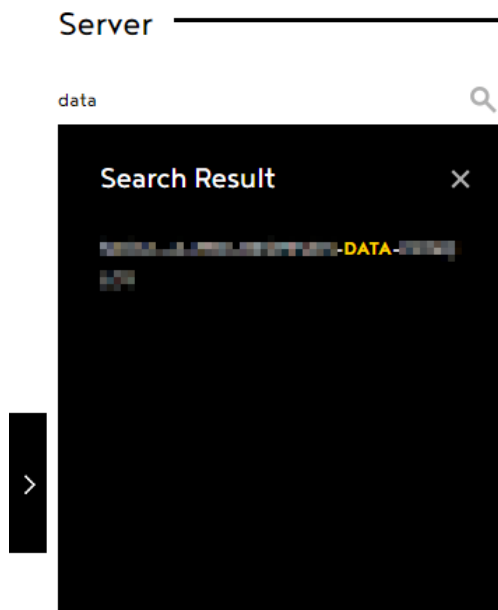


1.4.1.2. Metric Chart

You can set the term to intuitively understand the overall status of 5 main metrics; or you can select one metric to check it in a detailed graph from an enlarged chart.

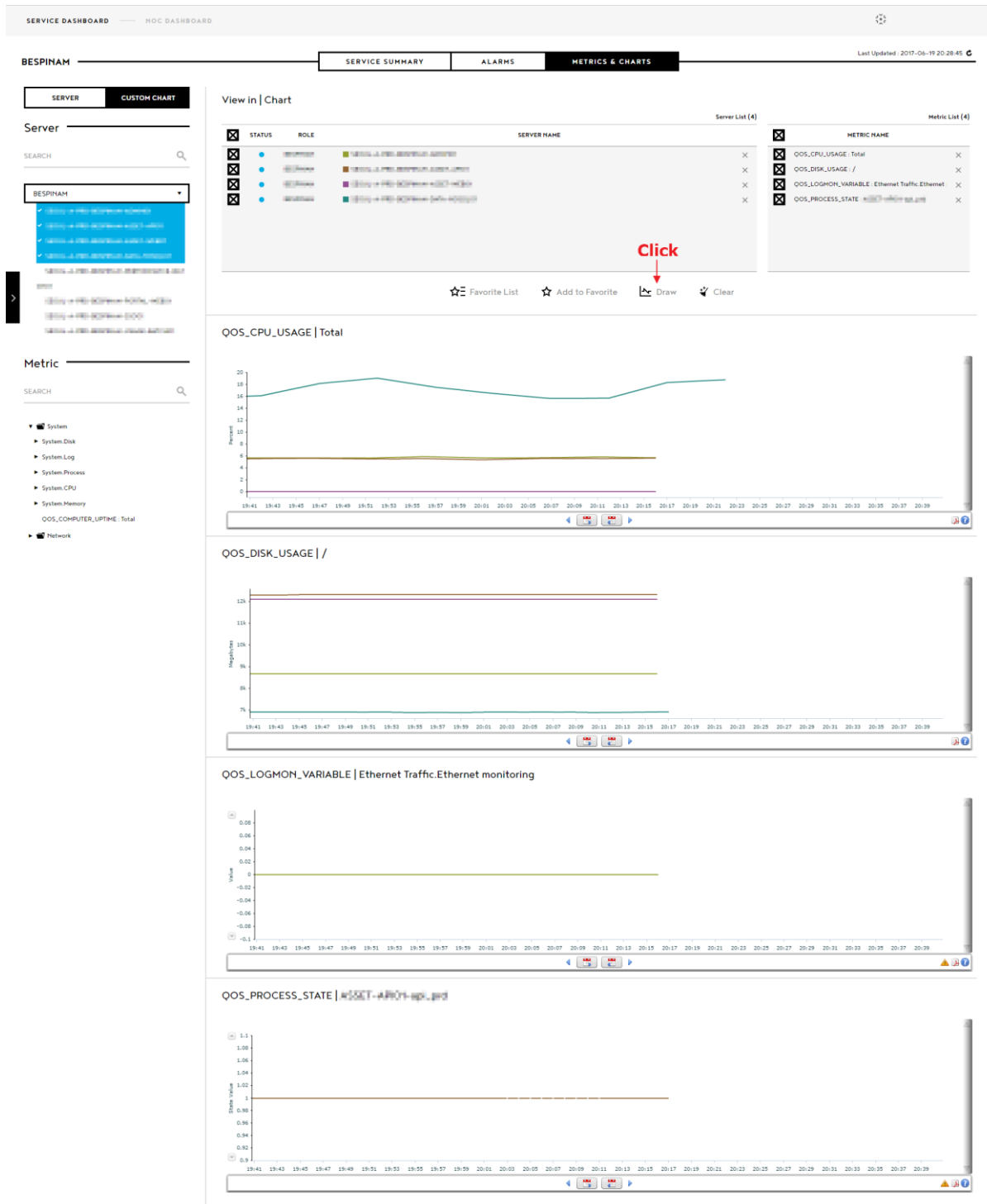






#### 1.4.2.2. View in | Chart

Click "View in Chart" to check the chart for each metric of the servers you have set.

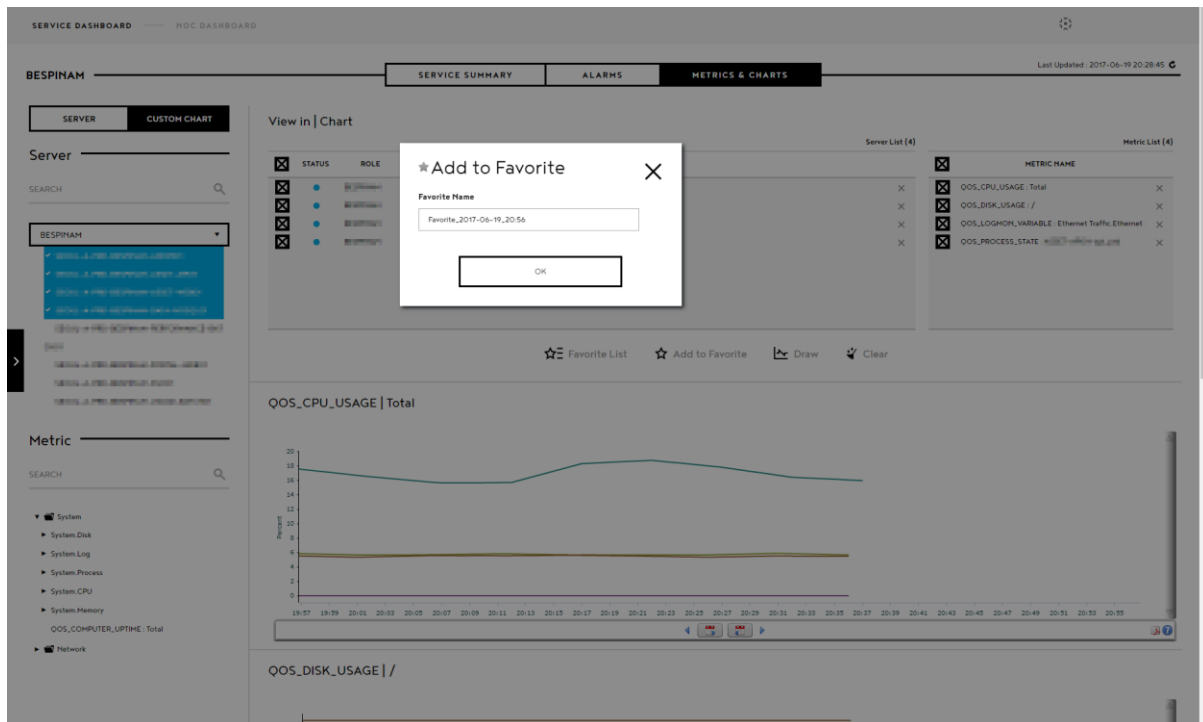


### 1.4.2.3. Favorites

You can create and manage custom charts with Favorites.

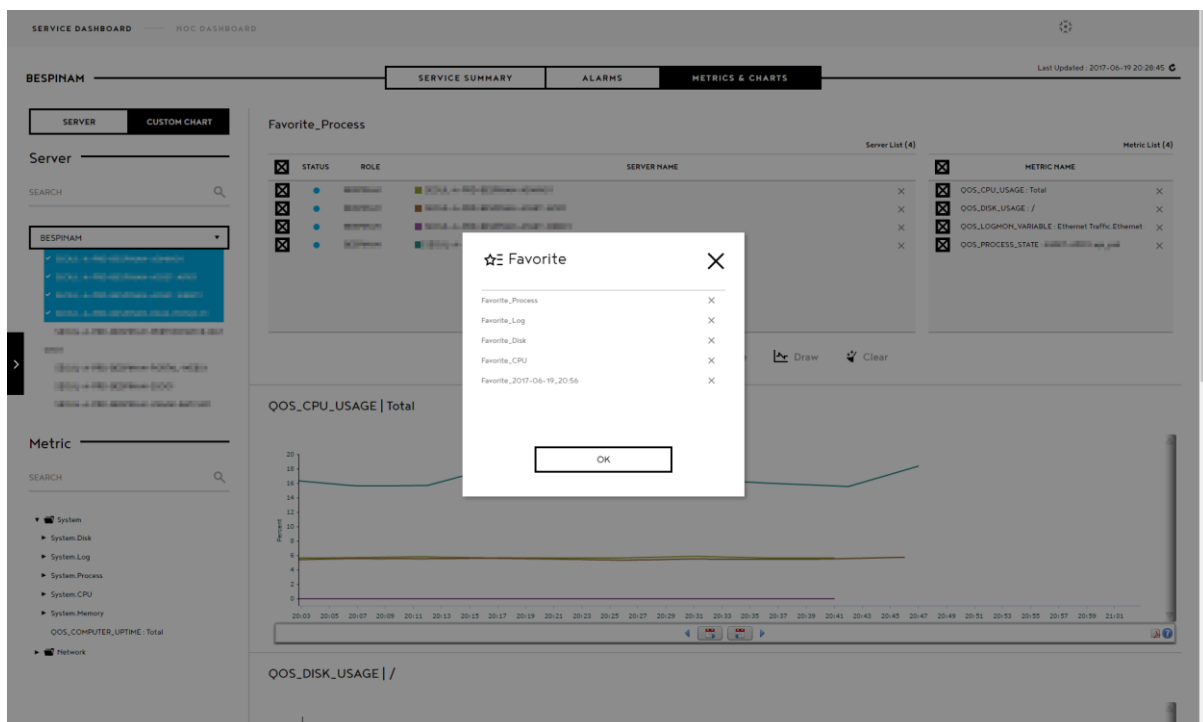
#### 1.4.2.3.1. Add to Favorites

When you click "Add to Favorites", an "Add to Favorites" pop-up appears. Its default name is "Favorite Date".



#### 1.4.2.3.2. Favorite List

If you have added to favorites, you can check it on the "Favorites" list pop-up and import it.



## 2. NOC Dashboard

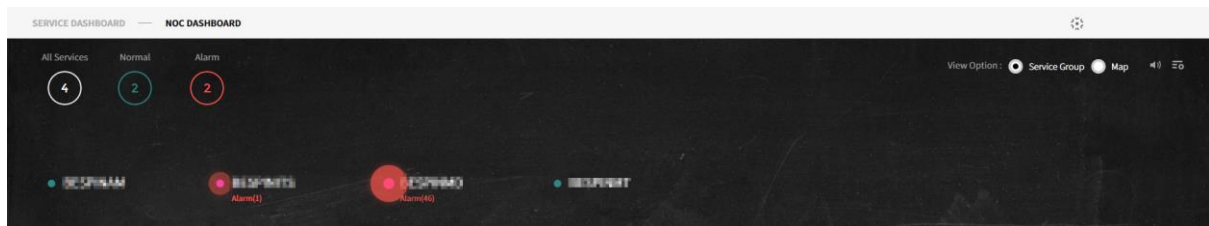
### 2.1. Service Group

The status of each service is shown live.

When an alarm incurs in a service, the red circle before the service title is lit. When there are many alarms, the size of the circle gets bigger.

You can check the summary of the alarms on Dashboard immediately.

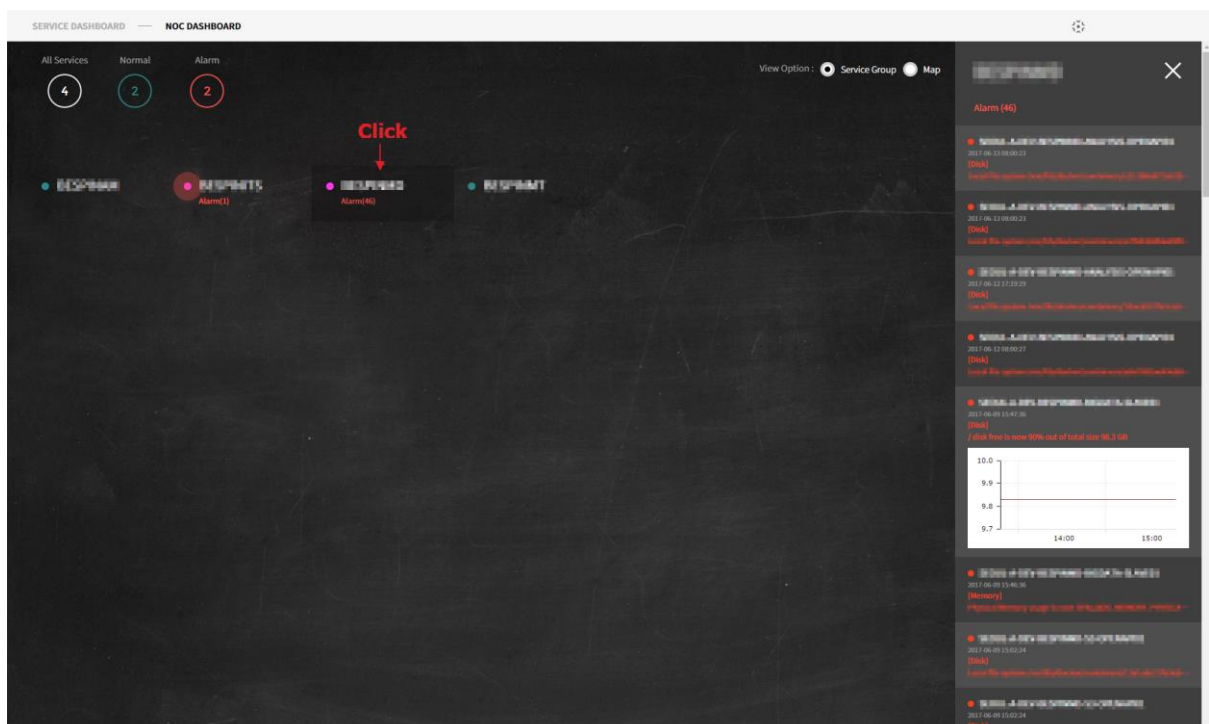
Monitoring Dashboard > NOC Dashboard > Service Group



### 2.1.1. Alarm List

Click the service where the alarm incurred to check the alarm details of the relevant service.

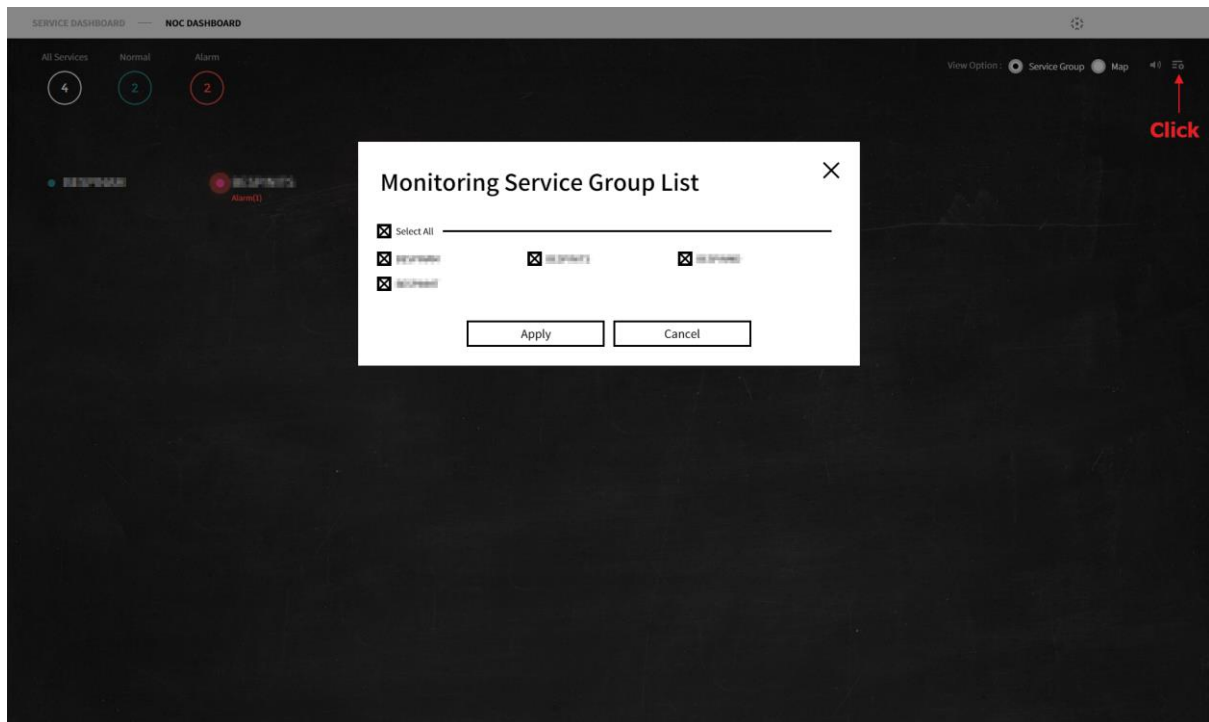
When you select the alarm, the available chart is shown depending on the alarm type when possible.



### 2.1.2. Monitoring Service Group List

The monitoring service group list pop-up appears when you click the configuration icon.

You can select the services to be shown on the Dashboard by checking the boxes.

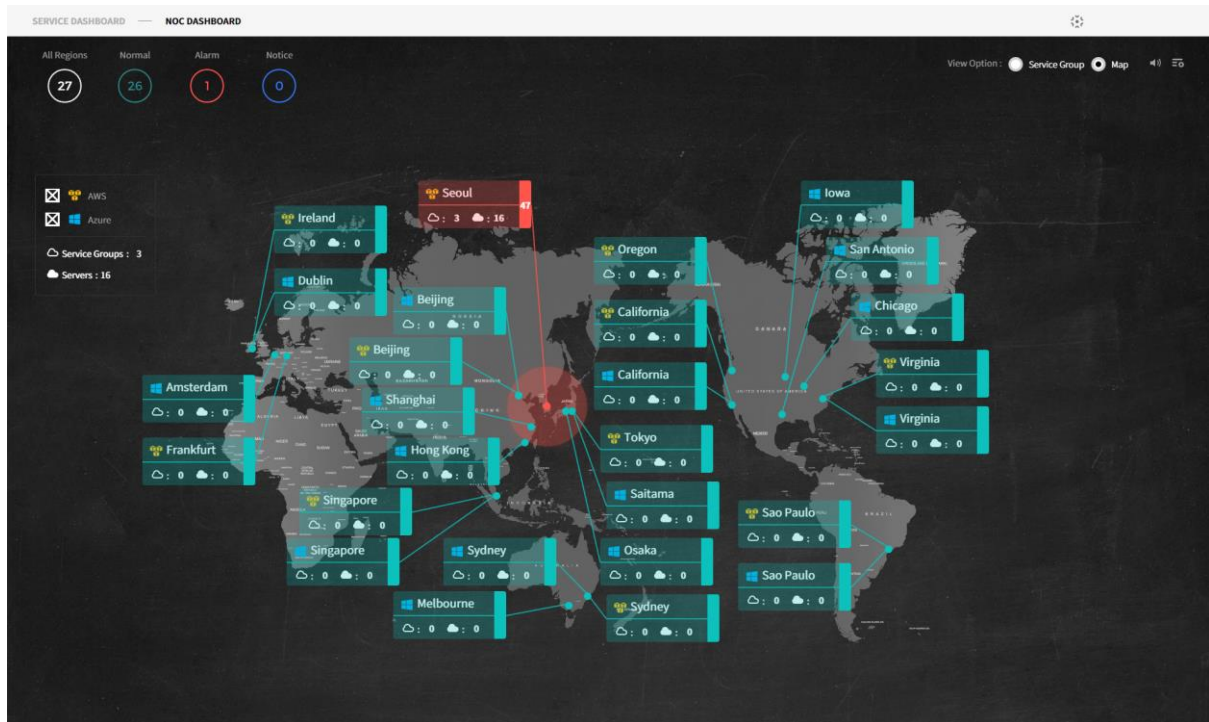


## 2.2. Map

Provides Geographic NOC Dashboard. You can monitor Hybrid CLOUD and all Infrastructures by region in a single pane.

When alarms incur, a red circle will be shown on the vertex of the region. When there are many alarms, the circle gets bigger.

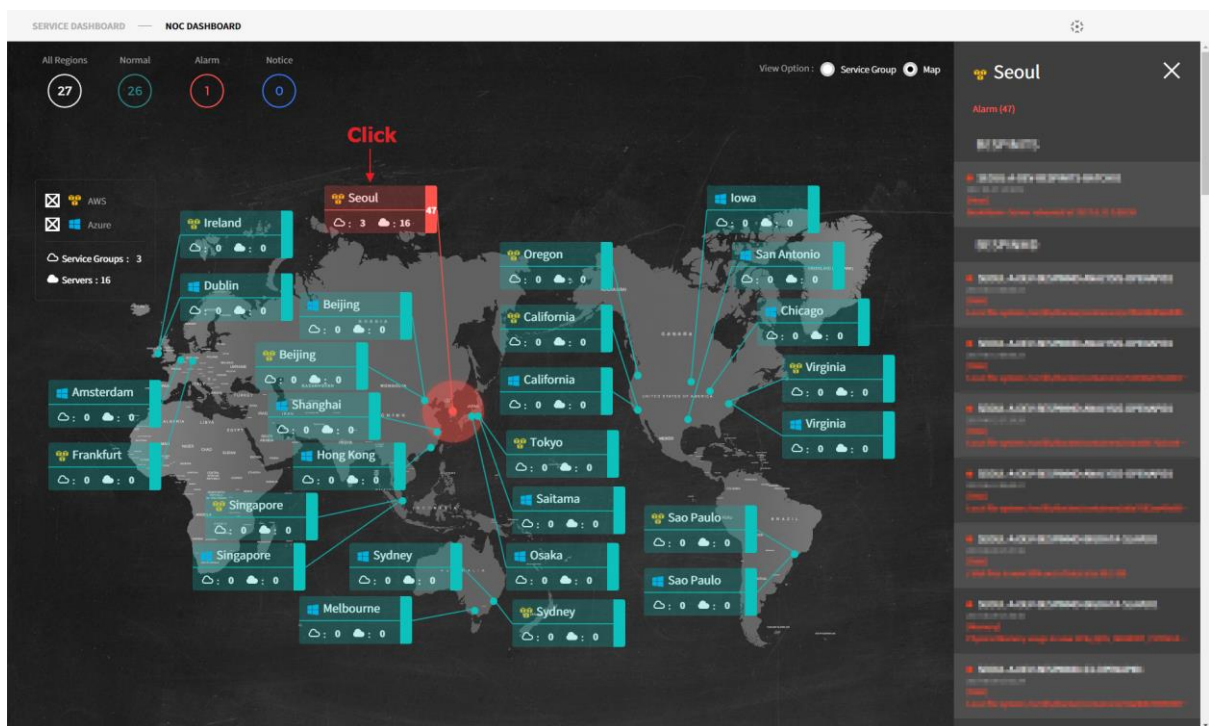
Monitoring Dashboard > NOC Dashboard > Map



### 2.2.1. Alarm List

Click the region where alarms incurred to check the alarm details per service group in the relevant region.

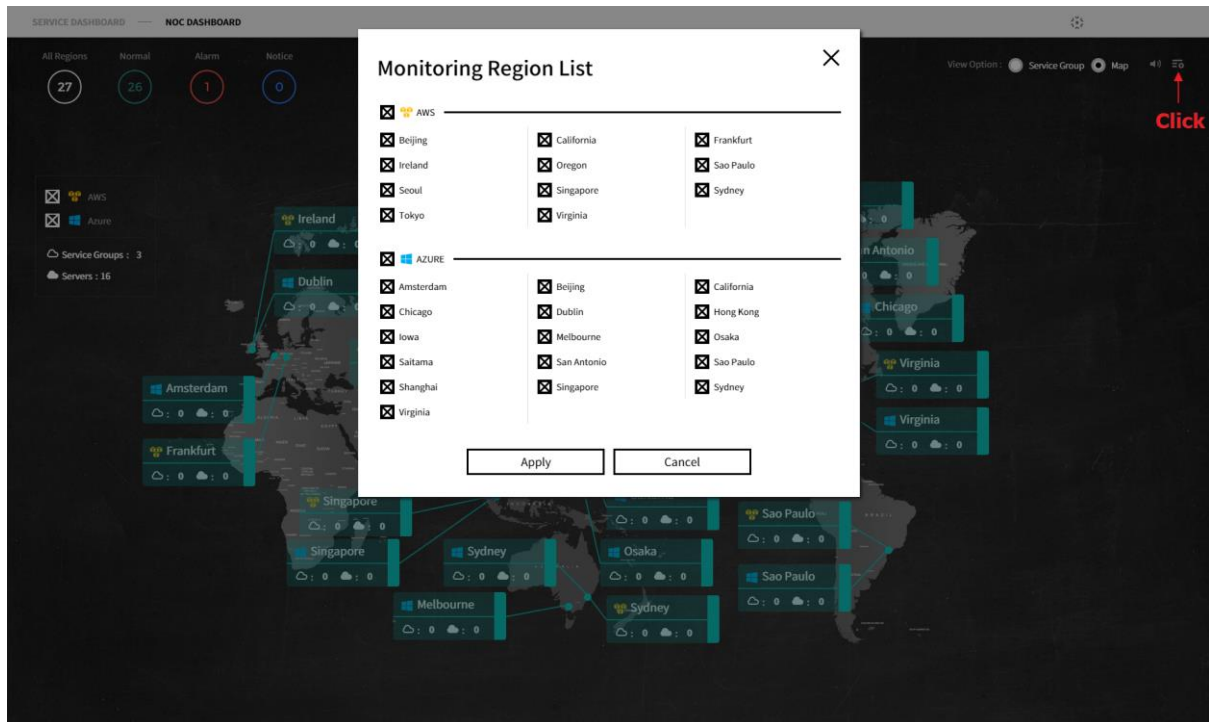
When you select the alarm, the available chart is shown depending on the alarm type when possible.



## 2.2.2. Monitoring Region List

Click the configuration icon and the monitoring region list pop-up appears.

You can select the regions to be shown on the Dashboard by checking the checkboxes.



## 3. Administrator

### 3.1. User Management

#### 3.1.1. User Setting

Search monitoring dashboard's user information or set roles in user setting.

Monitoring Dashboard > Administrator > User Setting

SERVICE DASHBOARD — NOC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NOC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Batch Monitoring

Overview

History

User Setting

NUM

USER NAME

APPROVAL SERVICE GROUP

GROUP COUNT

1	huangping_hu@huawei.com		0
2	liangping_liang@huawei.com		0
3	liangping_liang@huawei.com		0
4	liangping_liang@huawei.com		0
5	liangping_liang@huawei.com		0
6	liangping_liang@huawei.com		0
7	liangping_liang@huawei.com		0
8	liangping_liang@huawei.com		0
9	liangping_liang@huawei.com		0
10	liangping_liang@huawei.com		0
11	liangping_liang@huawei.com		0
12	liangping_liang@huawei.com		0
13	liangping_liang@huawei.com		0

<< < 1 of 5 > >>

SEARCH

Approval Service Group(0 / 0)

USER SERVICE SELECTION

☐

☐

Apply

### 3.1.1.1. Approval Service Group

Set the services the selected users from the list can access by checking the checkboxes.

Approval Service Group(0 / 0)

USER SERVICE SELECTION

☐

☐



## 3.2. Service Group Management

### 3.2.1. Display Service Group

Among the services set as monitoring groups in service group mapping, you can set the services to expose on Service Dashboard.

Monitoring Dashboard > Administrator > Service Group Management > Display Service Group

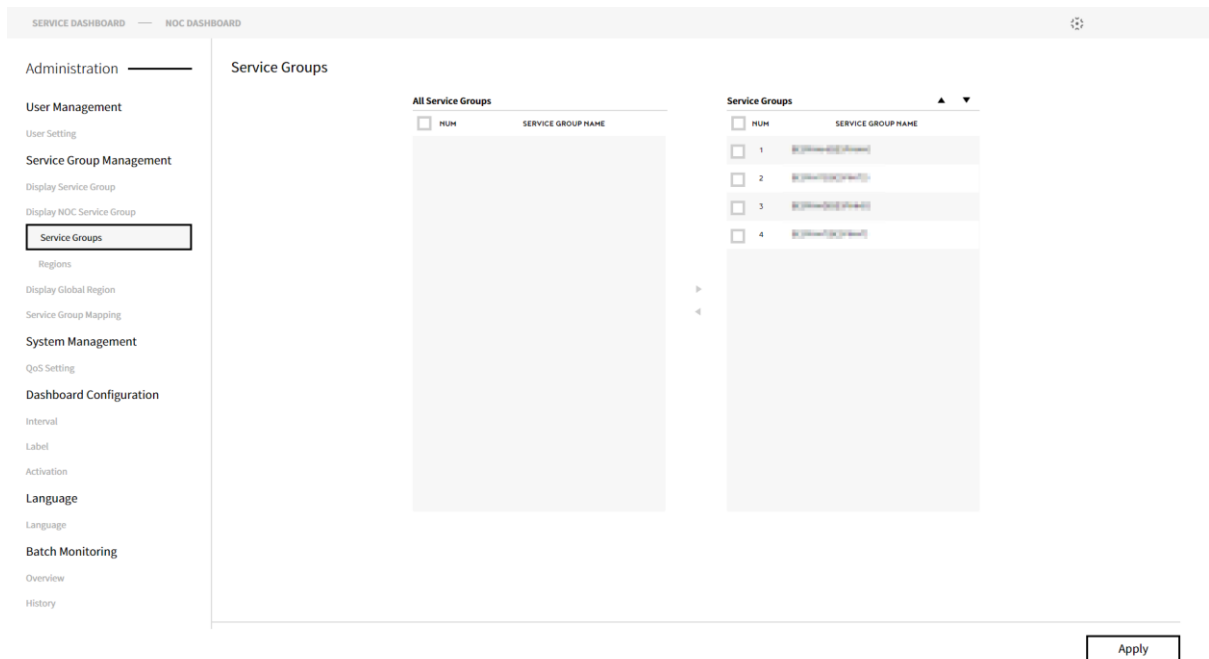
The screenshot shows the 'Display Service Group' configuration page. On the left is a sidebar menu with the following items: Administration, User Management, User Setting, Service Group Management (highlighted), Display NOC Service Group, Service Groups, Regions, Display Global Region, Service Group Mapping, System Management, QoS Setting, Dashboard Configuration, Interval, Label, Activation, Language, Batch Monitoring, Overview, and History. The main content area is titled 'Display Service Group' and contains two panels. The 'All Service Groups' panel on the left has a table with columns 'HUM' and 'SERVICE GROUP NAME'. The 'Display Service Group' panel on the right also has a table with columns 'HUM' and 'SERVICE GROUP NAME', and it lists four items with checkboxes and IDs 1, 2, 3, and 4. At the bottom right of the main content area is an 'Apply' button.

### 3.2.2. Display NOC Service Group

#### 3.2.2.1. NOC Service Groups (Service Groups)

Among the services set as monitoring groups in service group mapping, you can set the services to expose on NOC Dashboard.

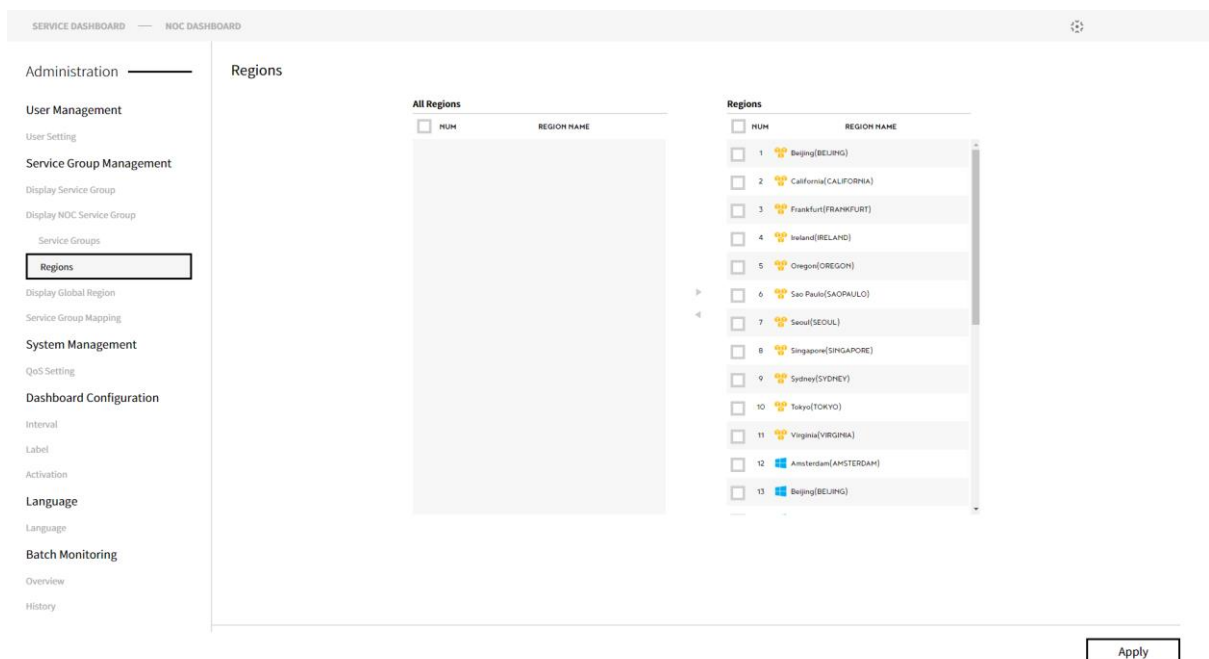
Monitoring Dashboard > Administrator > Service Group Management > Display NOC Service Group > Service Groups



### 3.2.2.2. NOC Region List (Regions)

Among the regions selected as an NOC region list from the common region list, you can set the regions to expose on NOC Dashboard.

Monitoring Dashboard > Administrator > Service Group Management > Display NOC Service Group > Regions



### 3.2.3. Common Region List (Display Global Region)

Among the regions registered in the system, you can set the regions to be used on NOC Region List.

Monitoring Dashboard > Administrator > Service Group Management > Display Global Region

The screenshot shows the 'Display Global Region' interface. On the left, there is a sidebar with navigation links: Administration, User Management, Service Group Management, System Management, Dashboard Configuration, Language, and Batch Monitoring. The 'Display Global Region' link is highlighted. The main content area is titled 'Display Global Region' and contains two tables. The first table, 'All Regions', lists 5 regions: Global(GLOBAL), Global(GLOBAL), US Gov Iowa(IOWA\_GOV), US Gov Virginia(VIRGINIA\_GOV), and Virginia 2(VIRGINIA2). The second table, 'Display Global Region', is currently empty. An 'Apply' button is located at the bottom right of the interface.

NUM	REGION NAME
1	Global(GLOBAL)
2	Global(GLOBAL)
3	US Gov Iowa(IOWA_GOV)
4	US Gov Virginia(VIRGINIA_GOV)
5	Virginia 2(VIRGINIA2)

NUM	REGION NAME
-----	-------------

Apply

### 3.2.4. Service Group Mapping

Among the services registered as service groups, you can map the service groups to be used as a monitoring group.

Monitoring Dashboard > Administrator > Service Group Management > Service Group Mapping

SERVICE DASHBOARD — NOC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NOC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

Service Group Mapping

NUM	SERVICE GROUP NAME	MONITORING GROUP NAME
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	Test ServiceGroup	...
7	Test ...	...

< 1 of 1 >

Apply

### 3.3. System Management

#### 3.3.1. QoS Setting

You can see the details of the items registered as QoS.

Monitoring Dashboard > Administrator > System Management > QoS Setting

SERVICE DASHBOARD — NOC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NOC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

QoS Setting

NUM	QOS	QOS TABLE	VIEW TABLE	VS VIEW TABLE
1	QOS_APACHE_BYTESPERREQ	...	...	...
2	QOS_APACHE_CLOSINGCONNECTIONPCT	...	...	...
3	QOS_APACHE_CPULOAD	...	...	...
4	QOS_APACHE_HTTPRETIME	...	...	...
5	QOS_APACHE_HTTPRESVALUE	...	...	...
6	QOS_APACHE_IDLEWORKERS	...	...	...
7	QOS_APACHE_REQAVETIME	...	...	...
8	QOS_APACHE_REQPERSEC	...	...	...
9	QOS_APACHE_WAITINGFORCONNECTION	...	...	...
10	QOS_AWS_CPU_UTILIZATION	...	...	...
11	QOS_AWS_DISK_READ_BYTES	...	...	...
12	QOS_AWS_DISK_READ_OPS	...	...	...
13	QOS_AWS_DISK_WRITE_BYTES	...	...	...
14	QOS_AWS_DISK_WRITE_OPS	...	...	...

Apply

### 3.4. Dashboard Configuration

### 3.4.1. Interval

Set the cycle of dashboard items on Interval pane.

Monitoring Dashboard > Administrator > Dashboard Configuration > Interval

SERVICE DASHBOARD — NOC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NOC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

Interval

Service Dashboard

+ Add Item

NUM	ITEM	INTERVAL	DESCRIPTION
1	Data_Auto_Refreshing	60 sec	PL Dashboard Auto Refresh Interval
2	Data_Filtering_9Hour	0 per 1	Summary 9Hour Chart View Filtering Data(O is disuse)
3	Data_Filtering_3Hour	0 per 1	Summary 3Hour Chart View Filtering Data(O is disuse)
4	Data_Filtering_6Hour	0 per 1	Summary 6Hour Chart View Filtering Data(O is disuse)
5	Data_Filtering_9Hour	50 per 1	Summary 9Hour Chart View Filtering Data(O is disuse)
6	Data_Filtering_12Hour	10 per 1	Summary 12Hour Chart View Filtering Data(O is disuse)
7	Data_Filtering_24Hour	10 per 1	Summary 24Hour Chart View Filtering Data(O is disuse)
8	Data_Filtering_48Hour	5 per 1	Summary 48Hour Chart View Filtering Data(O is disuse)
9	Data_Filtering_72Hour	5 per 1	Summary 72Hour Chart View Filtering Data(O is disuse)
10	Data_Down_Sampling_9Hour	0 min	Summary 9Hour Chart View Sampling Range(O is disuse)
11	Data_Down_Sampling_3Hour	0 min	Summary 3Hour Chart View Sampling Range(O is disuse)
12	Data_Down_Sampling_6Hour	0 min	Summary 6Hour Chart View Sampling Range(O is disuse)
13	Data_Down_Sampling_9Hour	1 min	Summary 9Hour Chart View Sampling Range(O is disuse)
14	Data_Down_Sampling_12Hour	2 min	Summary 12Hour Chart View Sampling Range(O is disuse)

Apply

### 3.4.2. Label

Manage words and phrases that are used on Dashboard on Label pane.

Monitoring Dashboard > Administrator > Dashboard Configuration > Label

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NDC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

Label

Service Dashboard

简体中文

Export

Import

+ Add Item

ITEM	ENGLISH	简体中文	
grb_logout	Log Out	退出	×
grid_col_activate	Activate	激活	×
grid_col_approvalservice	Approval Service Group	批准的服务器	×
grid_col_approvalservice_count	Group Count	服务器组数	×
grid_col_approvalstatus	Approval Status	批准状态	×
grid_col_authority	Authority	权限	×
grid_col_average_count	Average Count	平均访问次数	×
grid_col_code	Code	代码	×
grid_col_desc	Description	说明	×
grid_col_emailid	Email ID	邮箱ID	×
grid_col_end_time	End Time(UTC)	结束时间(UTC)	×
grid_col_executed_time	Executed Time(UTC)	开始时间(UTC)	×
grid_col_hubip	Hub IP	集群IP	×
grid_col_hubname	Hub Name	集群名称	×

Apply

### 3.4.3. Activation

You can activate or deactivate some features of Dashboard on Activation pane.

Monitoring Dashboard > Administrator > Dashboard Configuration > Activation

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NDC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

Activation

Service Dashboard

+ Add Item

HUB	ITEM	ACTIVATE	DESCRIPTION
1	SearchSummaryUser@Base	<input checked="" type="radio"/> Use <input type="radio"/> Discard	Search summary by using the '1Base'

Apply

## 3.5. Language

### 3.5.1. Language

Set the language to use on Monitoring Dashboard.

Monitoring Dashboard > Administrator > Language > Language

SERVICE DASHBOARD

NOC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NOC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Batch Monitoring

Overview

History

Language

+ Add Language

CODE	LANGUAGE		USAGE
1	English	<input checked="" type="checkbox"/>	NOC/Service Dashboard
2	Русский язык	<input checked="" type="checkbox"/>	NOC/Service Dashboard
3	简体中文	<input checked="" type="checkbox"/>	NOC/Service Dashboard

Language

Apply

3.6. Batch Monitoring

3.6.1. Overview

Shows the current batch summary details.

Monitoring Dashboard > Administrator > Batch Monitoring > Overview

SERVICE DASHBOARD — NDC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NDC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

Overview

SERVER	JOB	SCHEDULE	JOB RESULT	RUNNING TIME	LAST DURATION	TYPE	STEP	STEP RESULT	EXECUED TIME(UTC)	END TIME(UTC)
MD_BATCH	infraStatusJob	0 5/10 * * * ?	COMPLETED	19s	5s	STEP	collectAwsInfraStatus	COMPLETED	2017-06-20 06:45:00	2017-06-20 06:45:00
							collectAwsChinaInfraStatus	COMPLETED	2017-06-20 06:45:01	2017-06-20 06:45:02
							collectAzureInfraStatus	COMPLETED	2017-06-20 06:45:02	2017-06-20 06:45:03
							collectAzureChinaInfraStatus	COMPLETED	2017-06-20 06:45:03	2017-06-20 06:45:05
							noticeInfraStatusStep	COMPLETED	2017-06-20 06:45:05	2017-06-20 06:45:05
							currentInfraStatusStep	COMPLETED	2017-06-20 06:45:05	2017-06-20 06:45:05
	portalServiceSyncJob	0 0 * * * ?	COMPLETED	2s	2s	STEP	portalCustomerSyncStep	COMPLETED	2017-06-20 06:00:00	2017-06-20 06:00:00
							portalServiceGroupSyncStep	COMPLETED	2017-06-20 06:00:00	2017-06-20 06:00:01
							itsServiceGroupSyncStep	COMPLETED	2017-06-20 06:00:01	2017-06-20 06:00:02

3.6.2. History

Shows the history of the current batch in execution.

Monitoring Dashboard > Administrator > Batch Monitoring > History

SERVICE DASHBOARD — NDC DASHBOARD

Administration

User Management

User Setting

Service Group Management

Display Service Group

Display NDC Service Group

Service Groups

Regions

Display Global Region

Service Group Mapping

System Management

QoS Setting

Dashboard Configuration

Interval

Label

Activation

Language

Language

Batch Monitoring

Overview

History

History

Select Job

MD\_BATCHinfraStatusJob

MD\_BATCHportalServiceSyncJob

Job Information

Schedule : 0 5/10 \* \* \* ?

Step

collectAwsInfraStatus (avg. 0s)

collectAwsChinaInfraStatus (avg. 13s)

collectAzureInfraStatus (avg. 1s)

collectAzureChinaInfraStatus (avg. 2s)

noticeInfraStatusStep (avg. 0s)

currentInfraStatusStep (avg. 0s)

History - MD Batch

Steps(All)

Results(All)

JOB EXECUTED ID	JOB PARAMETER	EXECUED TIME(UTC)	END TIME(UTC)	LAST DURATION	STEP	STEP RESULT	MANAGEMENT
25038	-	2017-06-20 06:45:00	2017-06-20 06:45:00	0s	collectAwsInfraStatus	COMPLETED	
		2017-06-20 06:45:01	2017-06-20 06:45:02	1s	collectAwsChinaInfraStatus	COMPLETED	
		2017-06-20 06:45:02	2017-06-20 06:45:03	1s	collectAzureInfraStatus	COMPLETED	
		2017-06-20 06:45:03	2017-06-20 06:45:05	2s	collectAzureChinaInfraStatus	COMPLETED	
		2017-06-20 06:45:05	2017-06-20 06:45:05	0s	noticeInfraStatusStep	COMPLETED	
		2017-06-20 06:45:05	2017-06-20 06:45:05	0s	currentInfraStatusStep	COMPLETED	
25037	-	2017-06-20 06:35:00	2017-06-20 06:35:00	0s	collectAwsInfraStatus	COMPLETED	
		2017-06-20 06:35:00	2017-06-20 06:35:01	1s	collectAwsChinaInfraStatus	COMPLETED	
		2017-06-20 06:35:01	2017-06-20 06:35:03	2s	collectAzureInfraStatus	COMPLETED	
		2017-06-20 06:35:03	2017-06-20 06:35:04	1s	collectAzureChinaInfraStatus	COMPLETED	
		2017-06-20 06:35:04	2017-06-20 06:35:04	0s	noticeInfraStatusStep	COMPLETED	
		2017-06-20 06:35:04	2017-06-20 06:35:04	0s	currentInfraStatusStep	COMPLETED	
25036	-	2017-06-20 06:25:00	2017-06-20 06:25:00	0s	collectAwsInfraStatus	COMPLETED	

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