Cluster WebUI Help

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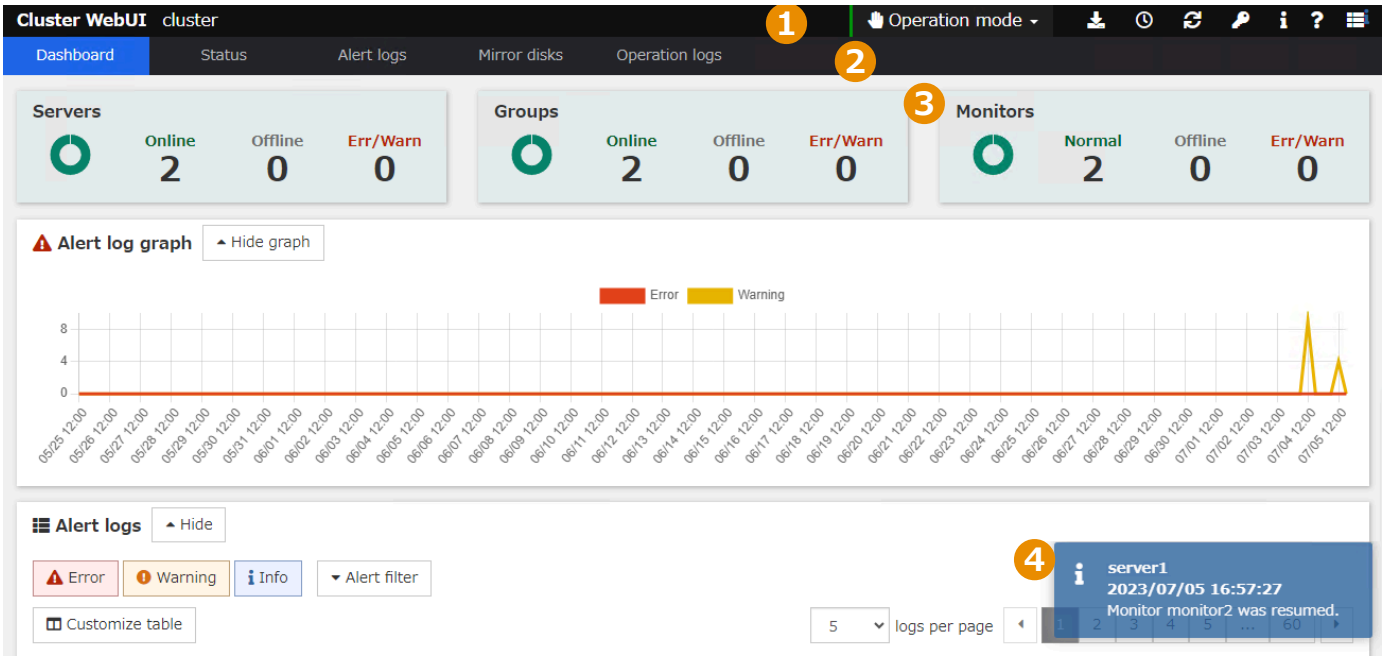
General

Overview

Cluster WebUI provides functionality to monitor and manage the status of a cluster and its servers, groups, resources, and monitors.
The main sections of the Cluster WebUI application are shown in the image below.



1. **Toolbar**
   The name of the cluster being managed is displayed on the left side of the toolbar.
   The right side of the toolbar contains a menu for selecting the current user mode, as well as various action buttons.
   For more details on the toolbar and its features, refer to Toolbar.

2. **Tabs**
   The different pages within the application are accessed by clicking on the appropriate tab. The currently selected tab is displayed in blue.
   For more details on tabs and a short summary of each page, refer to Tabs.

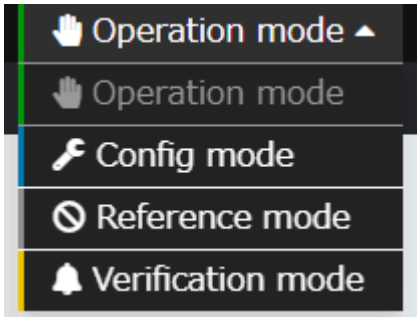
3. **Main area**
   The contents of the currently selected tab are displayed in the main area.

4. **Pop-up alert notification**
   New alert logs are displayed in the bottom right of the screen as they arrive.
   A maximum of three alert logs will be displayed at one time. Any additional alert logs can be viewed from the alert log table on the Dashboard or Alert log pages.
   Alert logs displayed as pop-up notifications can also be filtered by type. Refer to Toolbar - Alert log filter for more information.

General
Toolbar

1. **Cluster name**
   The name of the cluster being managed.

2. **User mode**
   The current user mode is displayed. Clicking on the user mode will display a menu allowing you to change the current user mode.

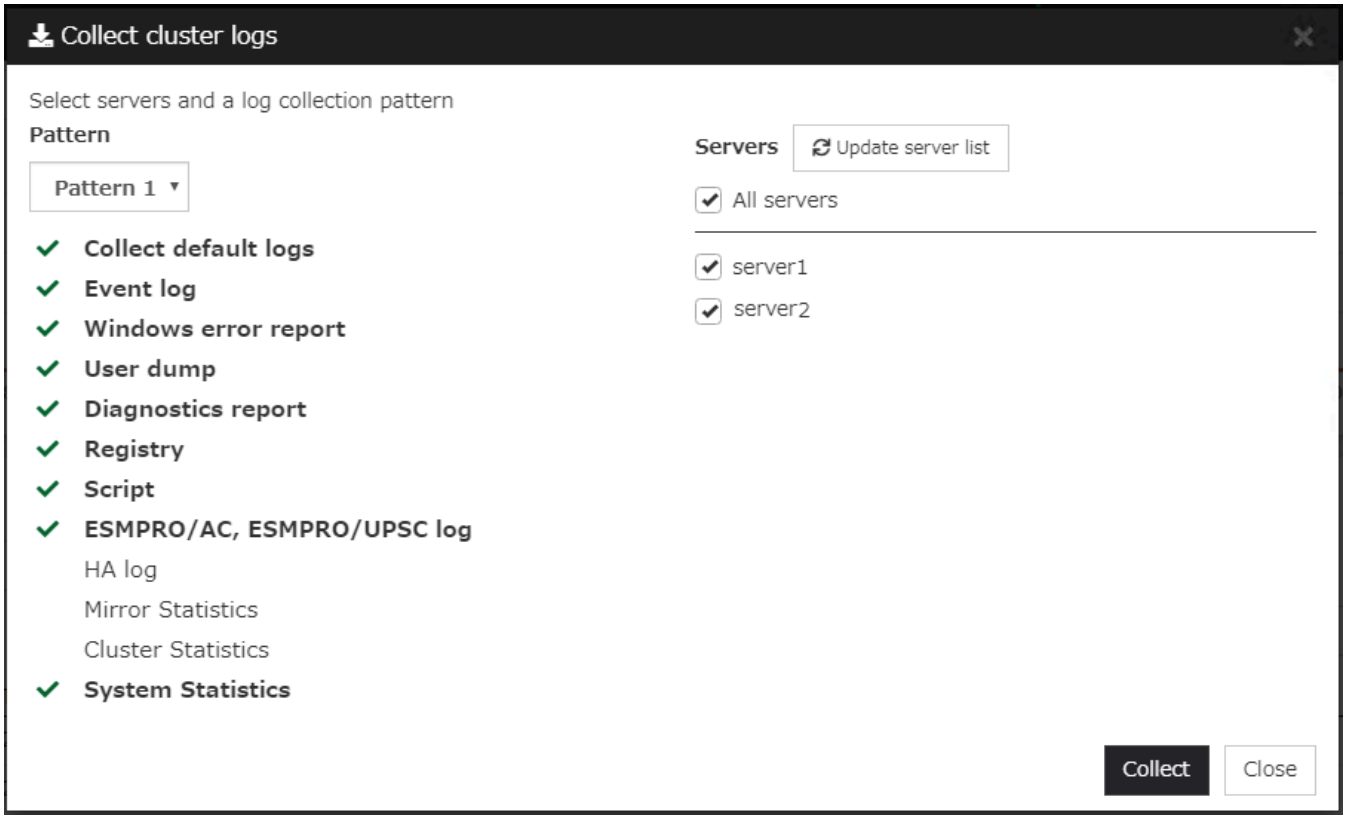


   Available user modes are as follows.

   - **Operation mode**
     Both status monitoring and operations such as starting/stopping servers and resources can be performed.
   - **Config mode**
     Editing, exporting and other actions for cluster configuration can be performed.
     Refer to Config mode for more information.
   - **Reference mode**
     Status monitoring can be performed but operations such as starting/stopping servers and resources are not allowed.
   - **Verification mode**
     As in Operation mode, both status monitoring and operations can be performed. In addition, dummy failures can be performed to verify operation under error.

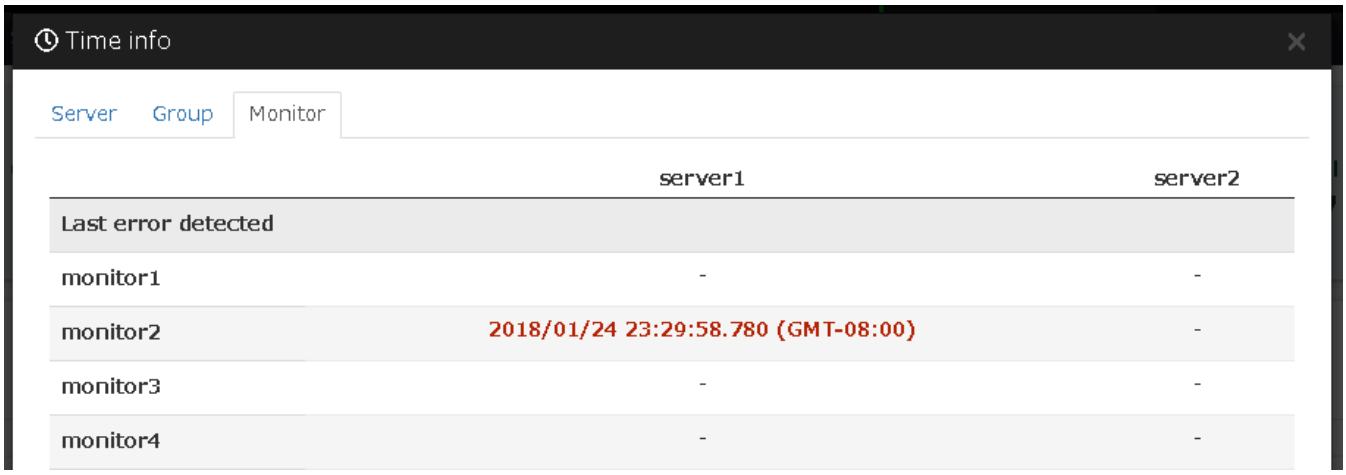
   Note: Depending on cluster account permission settings, some modes may not be available or may require a login password.

3. **Collect cluster logs**
   Specify and download log files from selected servers.
   Click the **Collect cluster logs** button to open the log collection dialog.
   Select a log collection pattern and the servers to collect logs from.
   Click **Collect** to begin the log collection process.



Note: An error may occur with Internet Explorer 11 when downloading logs.
Refer to Notes and Restrictions - Log collection, configuration export, and CSV download for more information.

4. **Time info**
   Display information about the times of events such as when a server joined the cluster or when the last error occurred.
   Click **Clear** to clear the time info data, and **Update** to retrieve the latest time info data from the server.



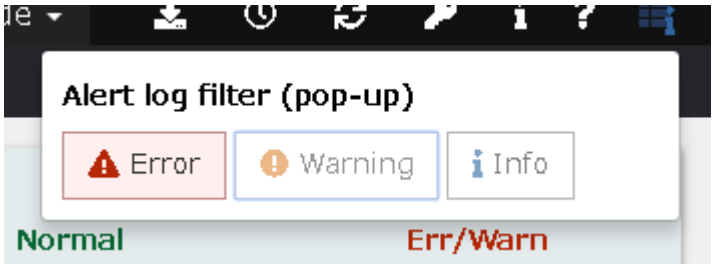
5. **Refresh data**
   Retrieve the latest data from the server.

6. **License information**
   Display cluster product license information.

7. **Application information**
   Display Cluster WebUI version information.

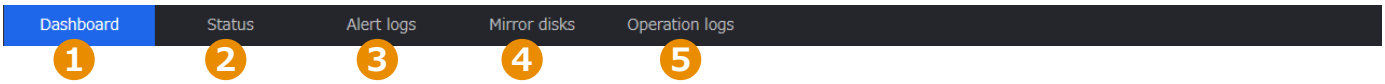
8. **Help**
   Display the Cluster WebUI online help.

9. **Alert log filter**
   The alert log filter allows you to select the types of alert logs that will be displayed as pop-up notifications.
   For example as in the following image if only 'Error' is selected, only 'Error' alert logs will be displayed as pop-up notifications ('Info' and 'Warning' logs will not be displayed).



General

Tabs



1. **Dashboard**
   The main page of Cluster WebUI showing an overview of the current status of servers, groups, and monitors, as well as information on recent alert logs.
   Refer to Dashboard for more information.

2. **Status**
   The current status of the groups, resources and monitors.
   While in operation or verification mode, operations such as starting or stopping servers, groups, resources and monitors can be performed.
   While in verification mode, dummy failures can be created for testing purposes.
   Refer to Status for more information.

3. **Alert logs**
   After specifying the number of logs to retrieve from the server (up to 10,000), logs are displayed in a table where they can be filtered and sorted.
   Refer to Alert logs for more information.

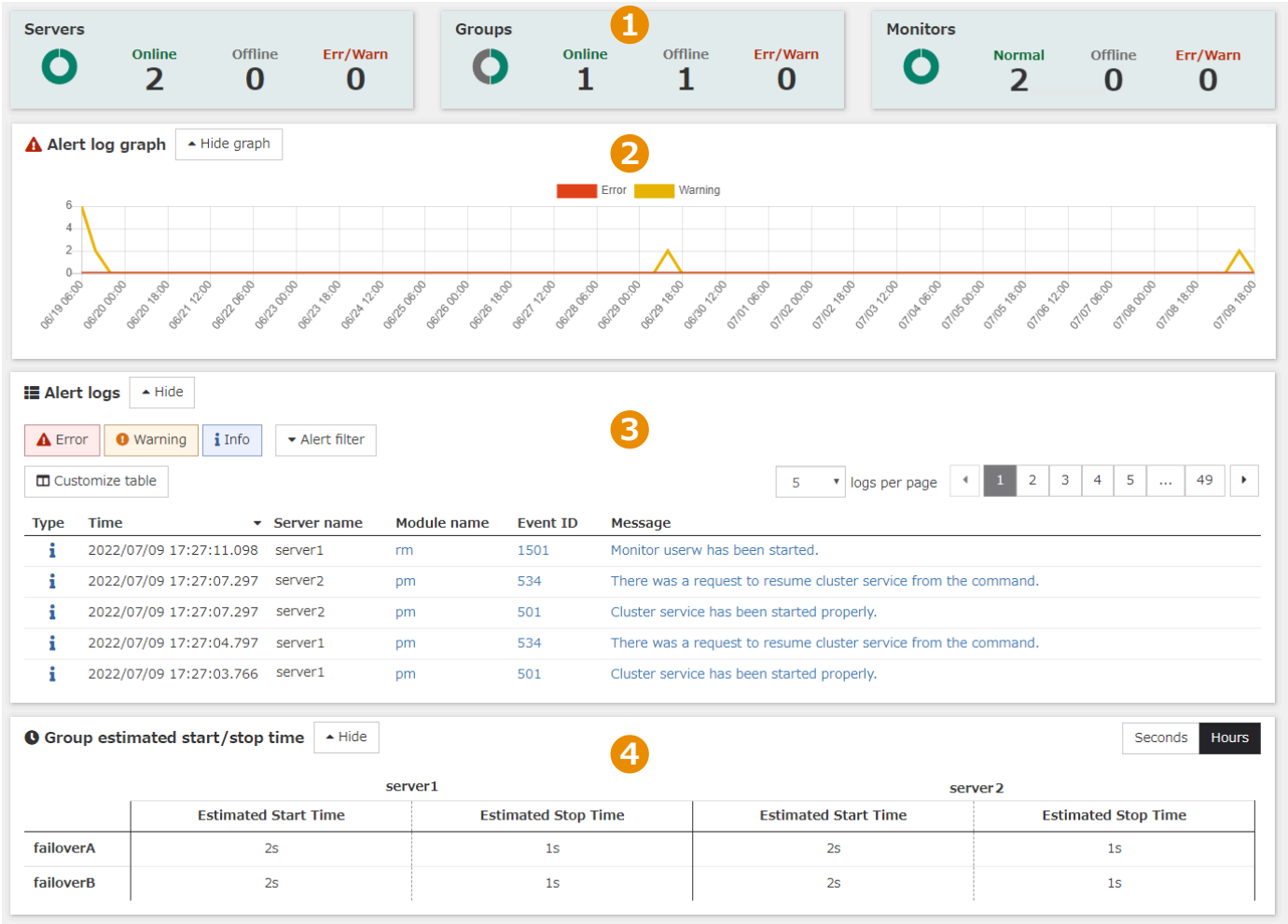
4. **Mirror disks**
   View a list of all mirror disks. While in operation or verification mode, operations such as disk copy and changing access restriction can be performed.
   Refer to Mirror disks for more information.

5. **Operation logs**
   After specifying the number of logs to retrieve from the server (up to 10,000), logs are displayed in a table where they can be filtered and sorted.
   Refer to Operation logs for more information.
   To display the operation logs: In the Config mode, go to [Cluster Properties], open the [WebManager] tab, and then enable [Output Cluster WebUI Operation Log].

Dashboard

Overview

The dashboard displays an overview of the current status of servers, groups, and monitors, as well as information on recent alert logs.



1. **Summary boxes**
   Summary boxes display a summary of the status of servers, groups, and monitors belonging to the cluster.
   For more details on the summary boxes, refer to Summary boxes.

2. **Alert log graph**
   The alert log graph displays the number of error or warning alert logs over time.
   For more details on the alert log graph, refer to Alert log graph.

3. **Alert log table**
   The 300 most recent alert logs can be viewed in the alert log table. Logs can be filtered by type, time, server name, module name, event ID and message.
   For more details on the alert log table, refer to Alert log table.

4. **Group estimated start/stop time**
   The table displays the estimated start time and stop time of groups.
   For more details on group estimated start/stop time, refer to Group estimated start/stop time.

Dashboard

Summary boxes

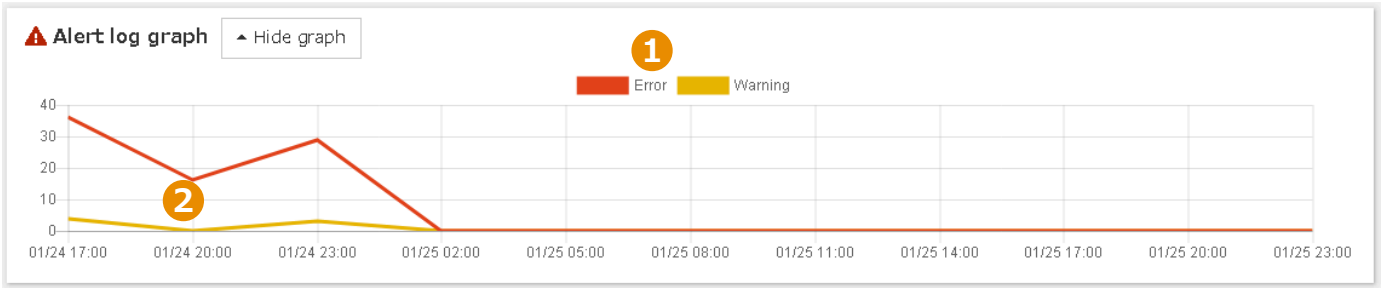
A summary of the status of servers, groups, and monitors belonging to the cluster is displayed in summary boxes on the dashboard.

1. **Type**
   The type of item (servers, groups, or monitors) that the summary is displaying data for.
2. **Donut graph**
   The number of servers, groups and monitors are displayed. The status is indecated as: Green (Normal), Gray (Stopped) or Red (Error/Warning).
3. **Count**
   The number of servers, groups and monitors are displayed according to the current status of each: Green (Normal), Gray (Stopped) or Red (Error/Warning).

Dashboard

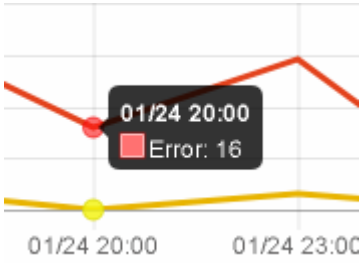
Alert log graph

The alert log graph shows the number of error or warning logs received over time.
The graph is constructed from the most recent 300 log messages (of any type).



1. **Alert log type select**
   Click on **Error** or **Warning** to show or hide that type of alert log on the graph.

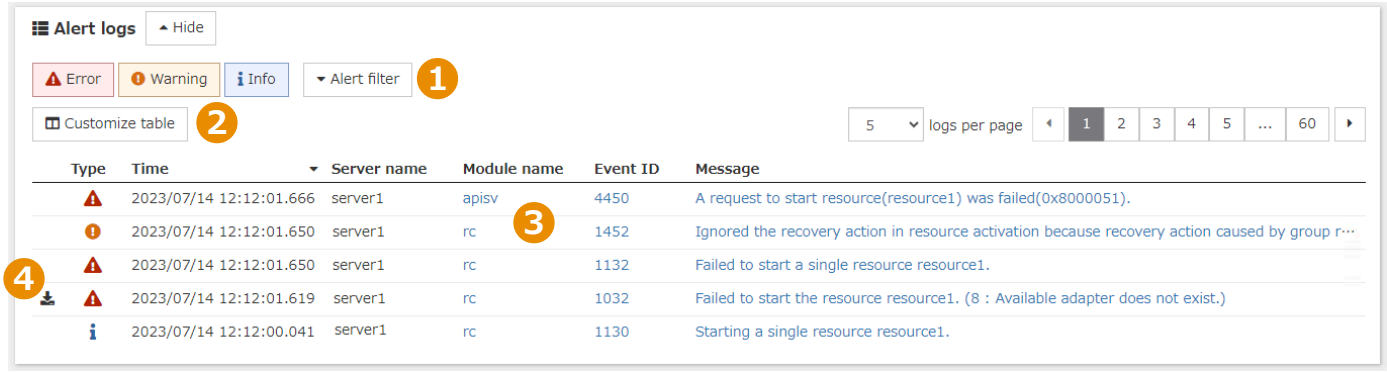
2. **Graph line**
   Highlight a point on the graph to display its value.
   Click on a point to display the related logs in the Alert log table.



Dashboard

Alert log table

Alert logs are displayed in table format and can be filtered by type, time, server name, module name, event ID and message.
The alert log table on the Dashboard page has the same functionality as the alert log table on the Alert logs page.
The Dashboard table shows the 300 most recent logs, whereas the Alert logs page table allows you to specify the number of logs to retrieve from the server.



1. **Filter**
   For information on filtering the alert log table, refer to Filter.

2. **Customize table**
   For information on customizing the alert log table, refer to Customize table.

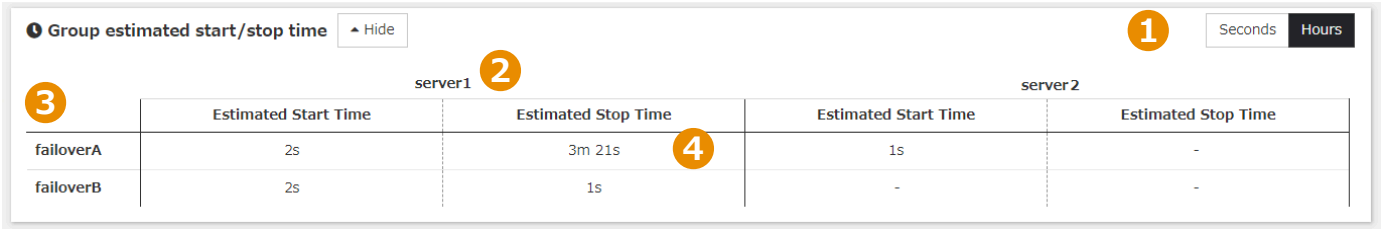
3. **Alert logs**
   Details of alert log entries are displayed.
   Selecting a link of a module name or event ID displays its corresponding location in the messages.
   Selecting a message displays the details of the log. For information on displaying a log message, refer to Alert logs - Display alert.

4. **Obtain logs for investigation**
   Download log files for investigation which were collected at the dates and times of event occurrences.
   The log files are collected when errors occur in group resources, monitor resources, and forced stop resources.

Dashboard

Group estimated start/stop time

View the estimated start time and stop time of groups on each server.



1. **Seconds / Hours**
   The estimated start/stop time of groups can be displayed in seconds or hours.

2. **Server name**
   View the hostname of the server.

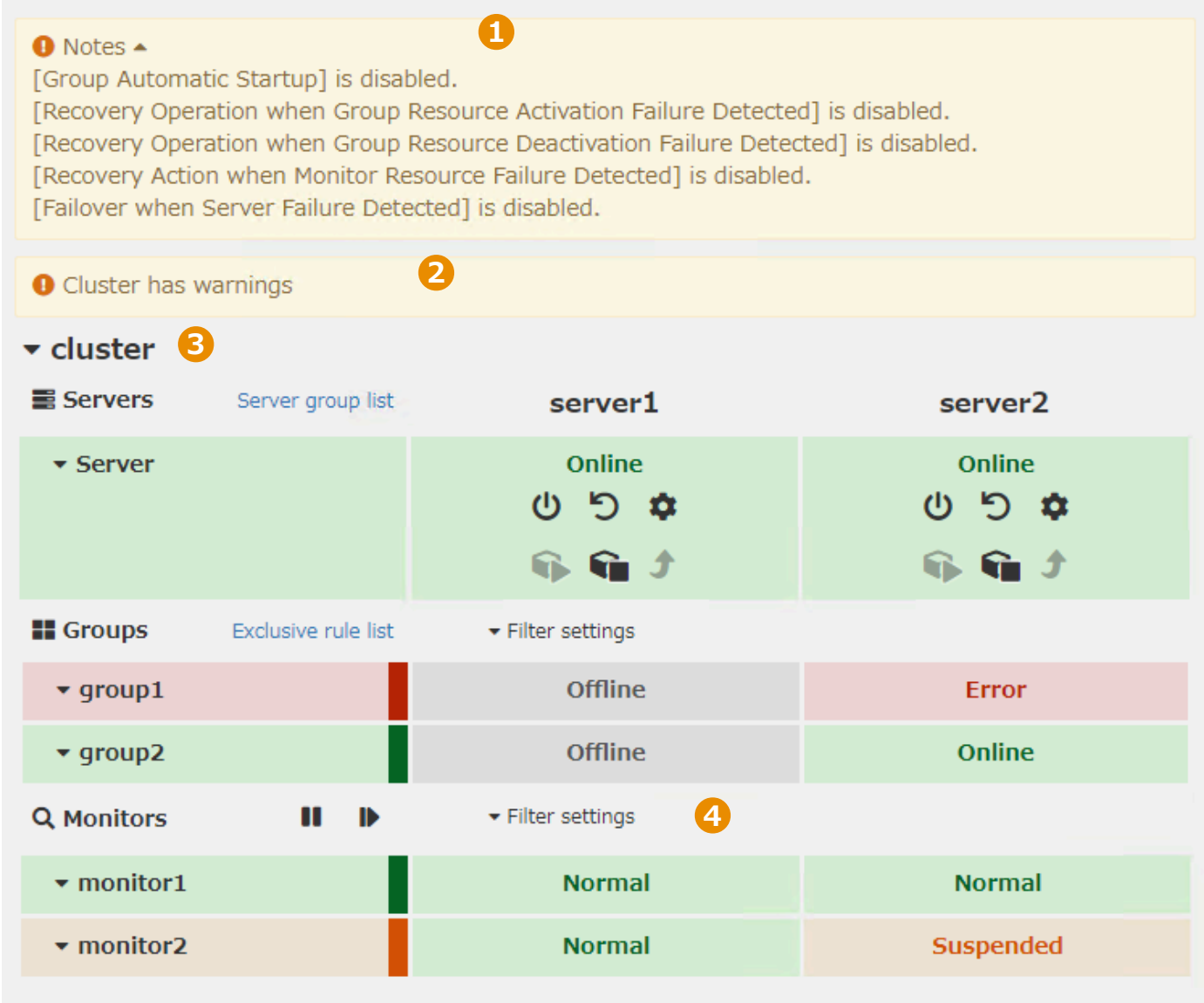
3. **Group name**
   View the group name.

4. **Group estimated start/stop time table**
   The estimated start time and stop time of groups on each server are displayed.
   If a group has never been started or stopped on a server, the estimated start/stop time will display a hyphen.

Status

Overview

The status page displays the current status of the cluster including servers, groups, resources and monitors.
While in operation or verification mode, operations such as starting or stopping servers, groups, resources and monitors can be performed.
While in verification mode, dummy failures can be created for testing purposes.



1. **Notes on cluster**
   Displays notes (only if any) on the cluster.

2. **Cluster status**
   The current overall status of the cluster.

3. **Cluster name**
   The name of the cluster. Clicking on the cluster name will display a list of actions that can be performed on the cluster such as rebooting it or viewing its properties.
   For more information on cluster actions, refer to Cluster.

4. **Status table**
   The status table displays the current status of servers, groups, and monitors, and allows you to perform actions on them.
   The number of servers displayed on screen is adjusted automatically based on the size of the browser window.

When there are four or more servers present, you can also manually select the number of servers shown by using the 'servers per page' dropdown box.
For more information on server status and actions, refer to Servers.
For more information on group status and actions, refer to Groups.
For more information on monitor status and actions, refer to Monitors.

Status
Cluster

1. **Cluster name**
   Click on the cluster name to hide or show the cluster actions.

2. **Cluster actions**

   Shutdown cluster
   Shutdown all servers belonging to the cluster.

   Reboot cluster
   Reboot all servers belonging to the cluster.

   Suspend cluster
   Suspend the cluster service.

   Resume cluster
   Resume the cluster service.

   Start cluster
   Start the cluster service.

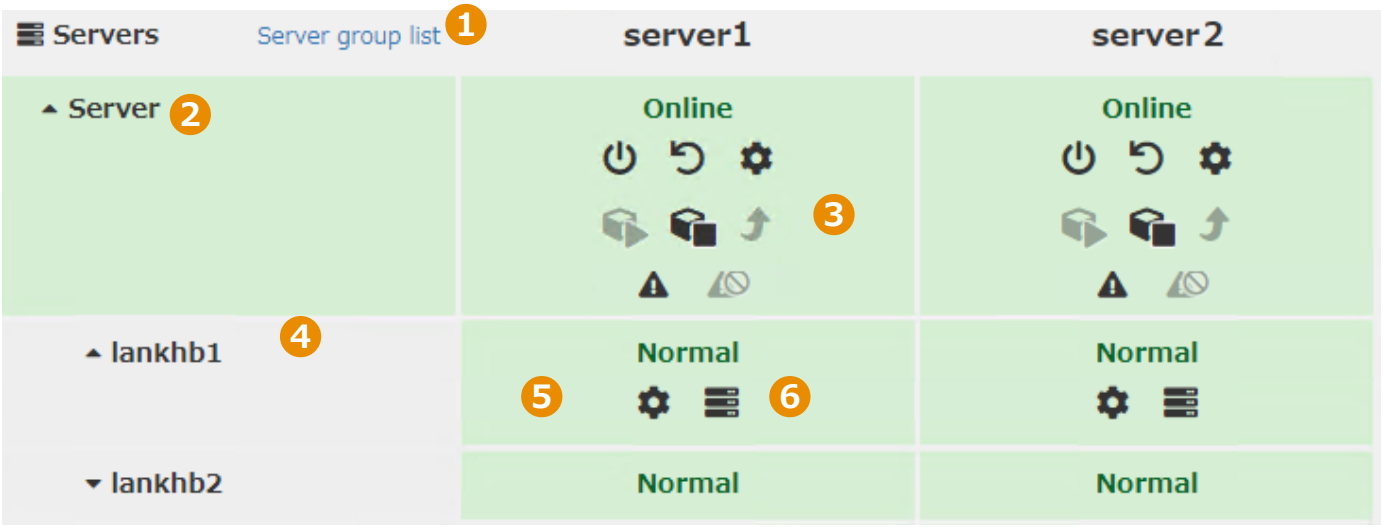
   Stop cluster
   Stop the cluster service.

   Restart WebManager service
   Restart WebManager service.

   Cluster properties
   View cluster's properties.

Status

Servers



1. **Server group list**
   Click **Server group list** to display a list of server groups.

2. **Server**
   Click **Server** to show or hide server actions and resources.

3. **Server actions**

   Shutdown server
   Shutdown the server.

   Reboot server
   Reboot the server.

   Server properties
   View the server's properties.

   Start server service
   Start the server service.

   Stop server service
   Stop the server service.

   Recover server
   Recover the server.

   Enable dummy failure (Verification mode only)
   A dummy server failure will be enabled.

   Disable dummy failure (Verification mode only)
   A dummy server failure will be disabled.

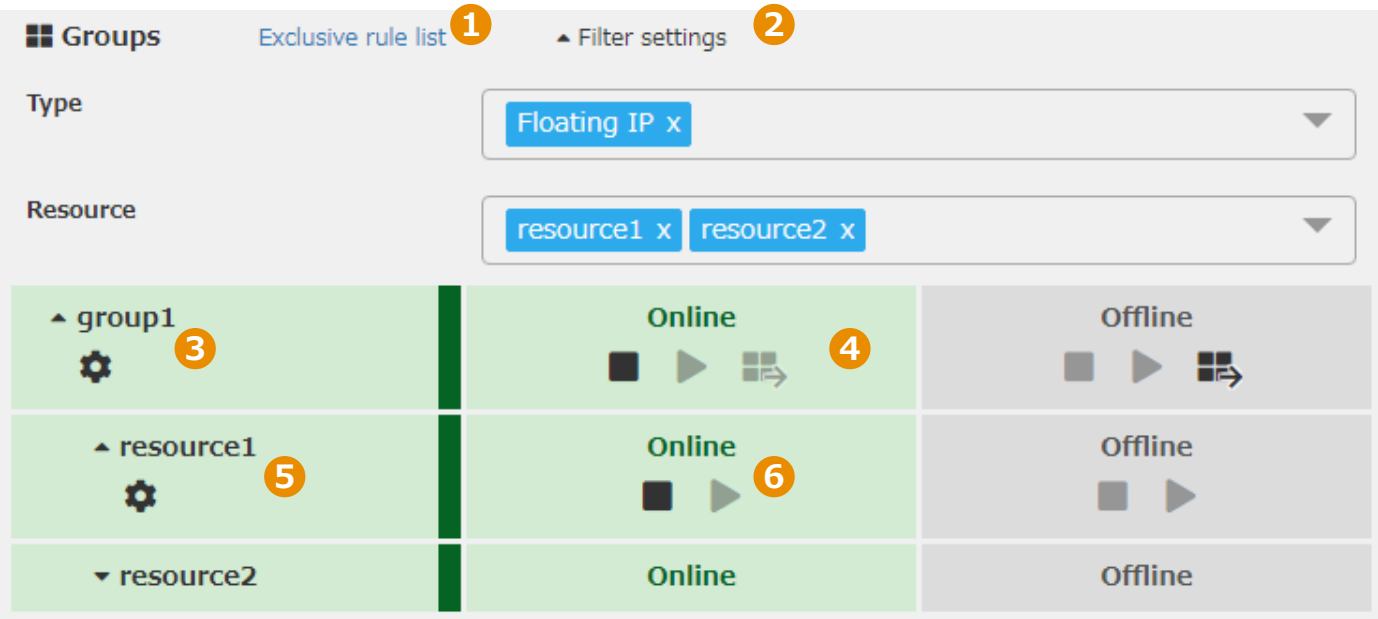
4. **Resource name**
   Click **Resource name** to show or hide resource properties and resource status on each server.

5. **Resource properties**
   View the properties of the heartbeart resource/NP resolution resource.

6. **Resource status**
   View the heartbeart resource/NP resolution resource's status on each server.

Status

Groups



1. **Exclusive rule list**
   Click **Exclusive rule list** to display a list of exclusive rules along with their attributes and groups.

2. **Filter settings**
   Click here to show or hide the filter section (types and resources).
   Selecting the items allows you to filter the group resource display.

3. **Group**
   Click the group name to show or hide group actions and group resources.

   Group properties
   View the group's properties.

4. **Group actions**

   Stop group
   Stop the group.

   Start group
   Start the group.

   Move group
   Move the group from its current server to the selected server.

5. **Group resource**
   Click the name of the group resource to show or hide group resource actions.

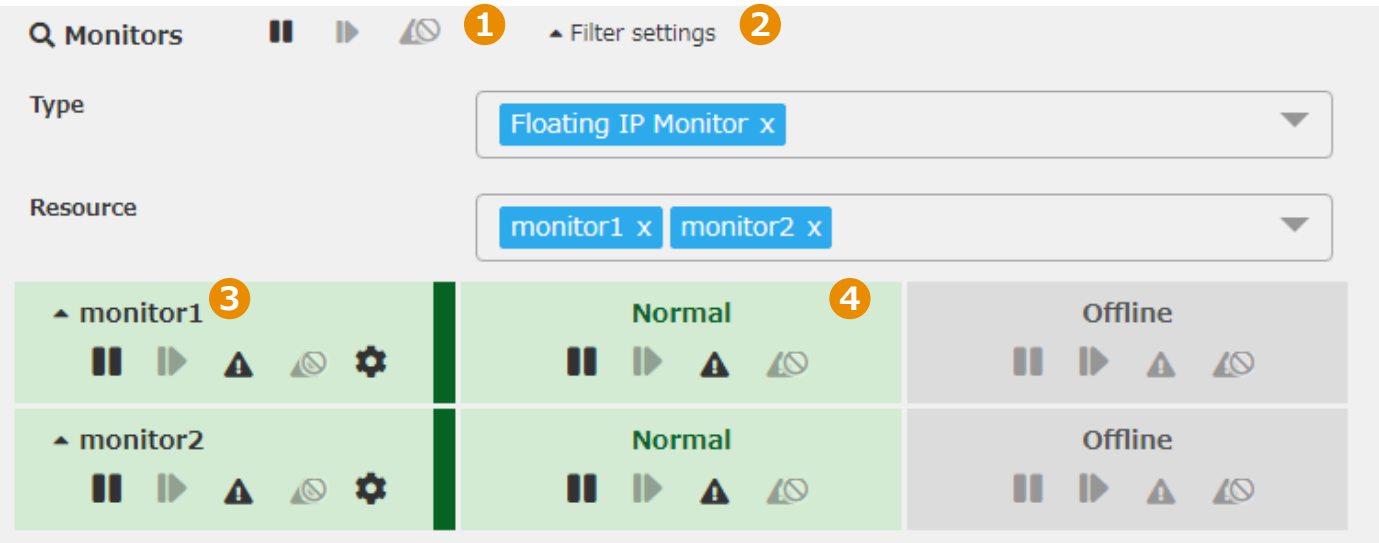
   Group resource properties
   View the group resource's properties.

6. **Group resource actions**

   Stop group resource
   Stop the group resource.

   Start group resource
   Start the group resource.

Status
Monitors



1. **All monitor actions**
   Clicking a button will display a list of servers. The selected action will be performed on all the selected servers.

   Suspend monitor
   Suspend all monitors on the selected servers.

   Resume monitor
   Resume all monitors on the selected servers.

   Disable all dummy failures (Verification mode only)
   Disable dummy failures for all monitors on the selected servers.

2. **Filter settings**
   Click here to show or hide the filter section (types and resources).
   Selecting the items allows you to filter the monitor resource display.

3. **Monitor**
   Click the name of the monitor to show or hide monitor actions.

   Suspend monitor
   Suspend the monitor on the selected servers.

   Resume monitor
   Resume the monitor on the selected servers.

   Enable dummy failure (Verification mode only)
   Enable dummy failures for the monitor on the selected servers.

   Disable dummy failure (Verification mode only)
   Disable dummy failures for the monitor on the selected servers.

   Monitor properties
   View the monitor's properties.

4. **Monitor actions**

   Suspend monitor
   Suspend the monitor.

   Resume monitor
   Resume the monitor.

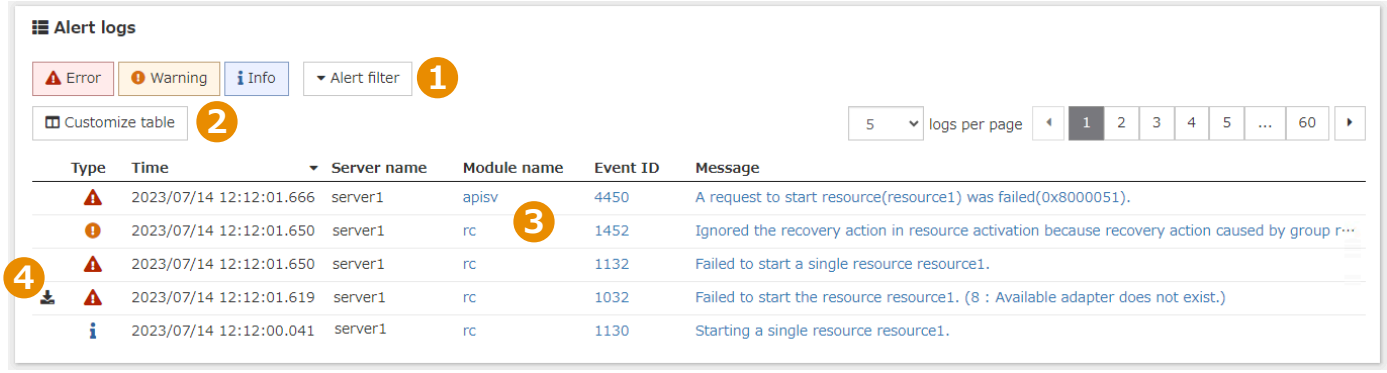
   Enable dummy failure (Verification mode only)
   Enable a dummy failure on the monitor.

Disable dummy failure (Verification mode only)
Disable a dummy failure on the monitor.

Alert logs
Overview

Alert logs are displayed in table format and can be filtered by type, time, server name, module name, event ID and message.
Alert logs must first be retrieved from the server by entering the number of logs to retrieve and then clicking Retrive logs.

For example, entering a value of 1000 will retrieve the most recent 1,000 alert logs from the server.
The maximum number of alert logs that can be retrieved is 10,000.
After the alert logs have been retrieved from the server, the alert log table will be displayed.



1. **Filter**
   The filter section allows you to filter logs displayed in the table by type, time, server name, module name, event ID and message.
   For more information on filtering the alert log table, refer to Filter.

2. **Customize table**
   Customize table allows you to hide or show alert log table columns.
   For more information on customizing the alert log table, refer to Customize table.

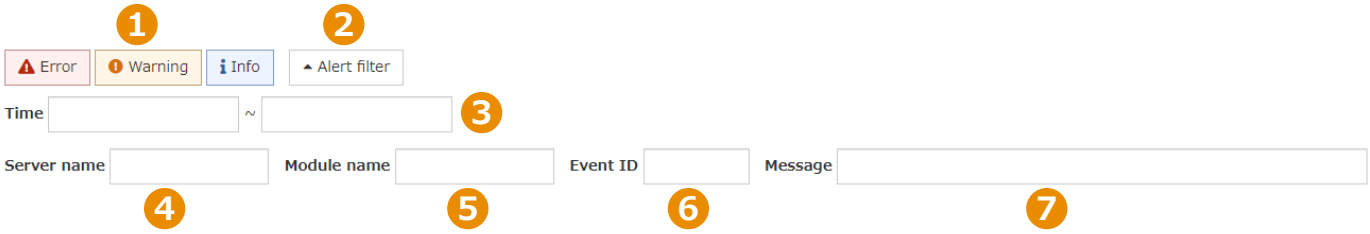
3. **Alert logs**
   Selecting a module name or event ID allows you to move to its corresponding location in the messages.
   Selecting a message allows you to display the details of the log. For more information on displaying a log message, refer to Alert logs - Display alert.

4. **Obtain logs for investigation**
   Download log files for investigation which were collected at the dates and times of event occurrences.
   The log files are collected when errors occur in group resources, monitor resources, and forced stop resources.

Alert logs

Filter

The filter section allows you to filter logs displayed in the table by type, time, server name, module name, event ID and message.



1. **Log type filter**
   Click on a log type (Error, Warning, or Info) to show or hide alert logs of that type.

2. **Alert filter**
   Click **Alert filter** to show or hide the alert filter section (Time filter, Server name filter, Module name filter, Event ID filter, Message filter).

3. **Time filter**
   Click in the first box to set a start date, and in the second box to set an end date.
   Only alert logs between these two dates will be displayed.
   If only a start date is set, all logs from the start date to the current date will be displayed.
   If only an end date is set, all logs from the earliest existing log to the end date will be displayed.

4. **Server name filter**
   Uses the input to perform a partial-match search of server names.

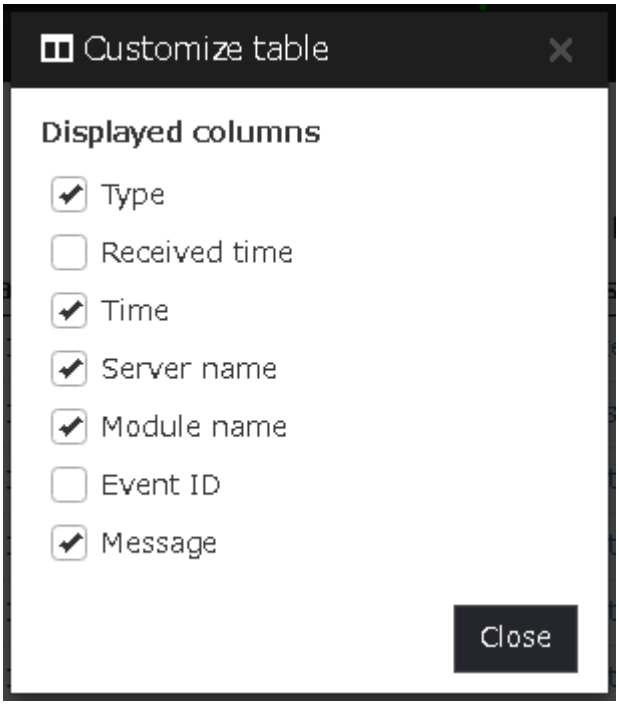
5. **Module name filter**
   Uses the input to perform a partial-match search of module names.

6. **Event ID filter**
   Uses the input to perform a partial-match search of event IDs.

7. **Message filter**
   Uses the input to perform a partial-match search of messages.

Customize table

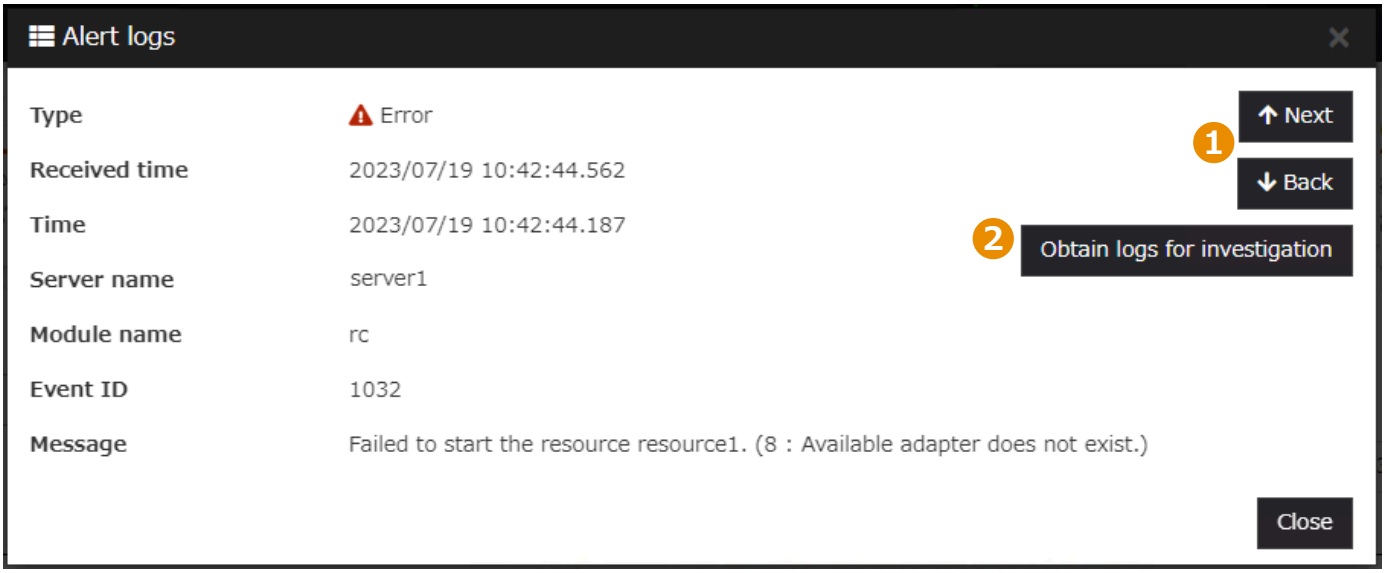
The Customize table feature allows you to hide or show alert log table columns.



Select or deselect columns to show or hide them.
Customize table settings are saved and will be restored the next time the Alert logs page is opened.

Alert logs - Display alert

Clicking on the Message of a log in the Alert logs will open a dialog displaying the log's information and full message text.



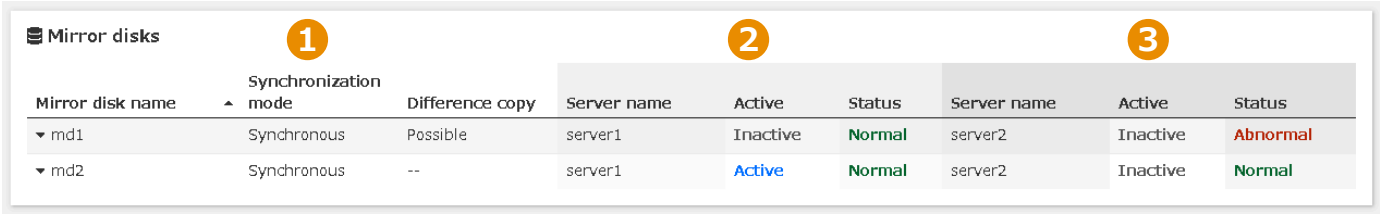
1. **Next/Back buttons**
   Click the **Next** button to view the next log in the alert log table, and the **Back** button to view the previous log.
   The Up and Down arrow keys on the keyboard can also be used to cycle through alert logs.

2. **Obtain logs for investigation**
   Download log files for investigation which were collected at the dates and times of event occurrences.
   The log files are collected when errors occur in group resources, monitor resources, and forced stop resources.

Mirror disks

Overview

The mirror disks page displays the status of all mirror disk resources present on the cluster.
In operation or verification mode, actions such as full or difference copy and forced mirror recovery can be performed.

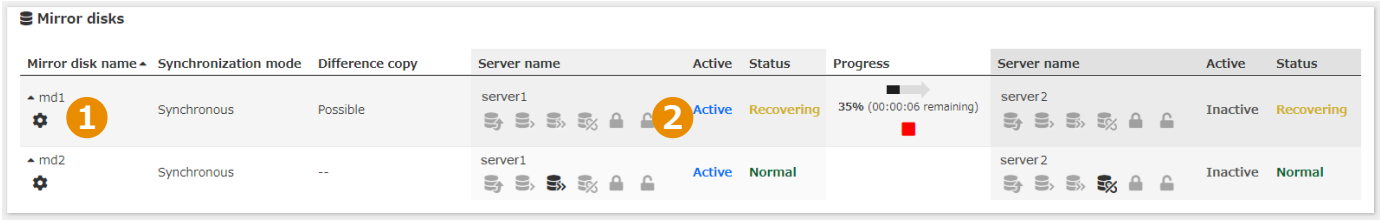


1. **Mirror disk information**
   Information about the mirror disk.
   - **Mirror disk name**
     The name of the mirror disk. Click the mirror disk name to display the action buttons allowing you to perform actions on the mirror disk.
     For more information on mirror disk actions, refer to Actions.
   - **Synchronization mode**
     Whether the synchronization mode of the mirror disk is in synchronous or asynchronous mode.
   - **Difference copy**
     Whether a difference copy operation can currently be performed or not.
2. **First server information**
   Information about the status of the mirror disk on the first server.
   - **Server name**
     The hostname of the server.
   - **Active**
     The current active status of the disk on the server.
   - **Status**
     The current status of the mirrored disk on the server.
3. **Second server information**
   Information about the status of the mirror disk on the second server.

Mirror disks

Actions

Click on the mirror disk name to show or hide the actions that can be performed on it.
Except for viewing the mirror disk's properties, actions can only be performed in operation or verification mode.



1. **Mirror disk properties**

   Properties
   View the mirror disk's properties.

2. **Mirror disk actions**
   The server name displayed above the action button is the server on which the action will be performed.
   For copy operations, the copy source will be the server clicked, and the copy destination will be the other server.

   Forced mirror recovery
   Update data in the mirror disk of the corresponding server.

   Difference copy
   Perform a difference copy.

   Full copy
   Perform a full copy.

   Mirror break
   Execute a mirror break operation.

   Turn on access restriction
   Turn access restriction on for the mirror disk on the selected server.

   Turn off access restriction
   Turn access restriction off for the mirror disk on the selected server.

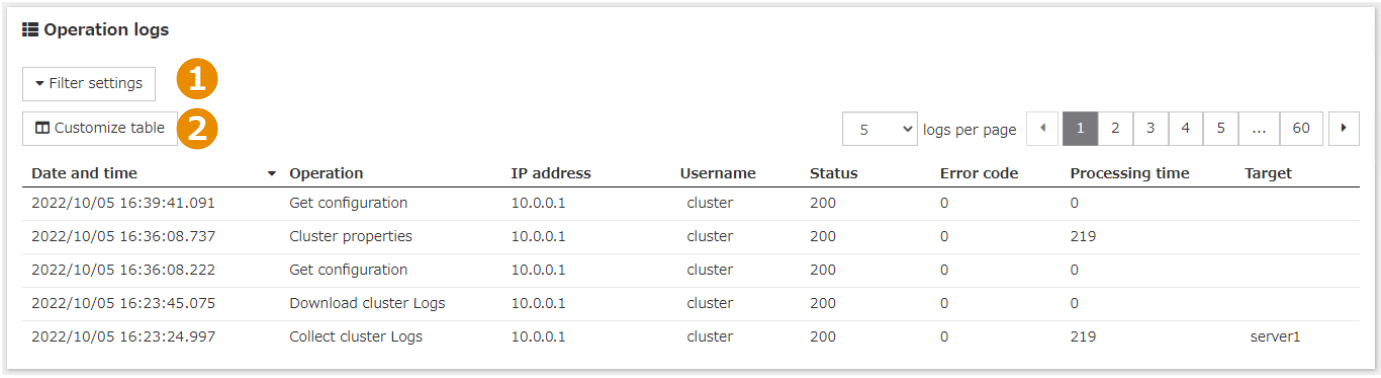
   Cancel
   Cancel the disk copy.

Operation logs

Overview

Operation logs are displayed in table format and can be filtered by Date and time, operation, IP address, user name, status, error code and target.
Operation logs must first be retrieved from the server by entering the number of logs to retrieve and then clicking Retrive logs.

For example, entering a value of 1000 will retrieve the most recent 1,000 operation logs from the server.
The maximum number of operation logs that can be retrieved is 10,000.
After the operation logs have been retrieved from the server, the operation log table will be displayed.



Date and time	Operation	IP address	Username	Status	Error code	Processing time	Target
2022/10/05 16:39:41.091	Get configuration	10.0.0.1	cluster	200	0	0	
2022/10/05 16:36:08.737	Cluster properties	10.0.0.1	cluster	200	0	219	
2022/10/05 16:36:08.222	Get configuration	10.0.0.1	cluster	200	0	0	
2022/10/05 16:23:45.075	Download cluster Logs	10.0.0.1	cluster	200	0	0	
2022/10/05 16:23:24.997	Collect cluster Logs	10.0.0.1	cluster	200	0	219	server1

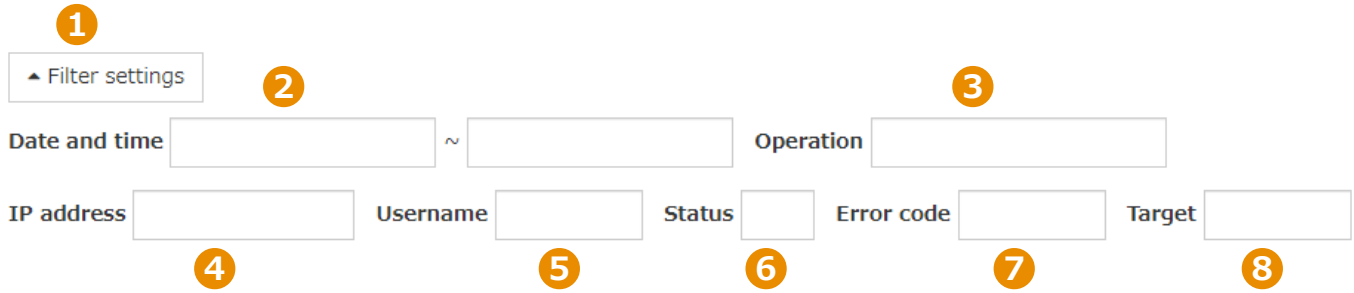
1. **Filter**
   The filter section allows you to filter logs displayed in the table by time, operation, IP address, user name, status, error code and target.
   For more information on filtering the operation log table, refer to Filter.

2. **Customize table**
   Customize table allows you to hide or show operation log table columns.
   For more information on customizing the operation log table, refer to Customize table.

Operation logs

Filter

The filter section allows you to filter logs displayed in the table by time, operation, IP address, user name, status, error code and target.



1. **Filter settings**
   Click **Filter settings** to show or hide the filter section (Date and time filter, Operation filter, IP address filter, User name filter, Status filter, Error code filter, Target filter).

2. **Date and time filter**
   Click in the first box to set a start date, and in the second box to set an end date.
   Only operation logs between these two dates will be displayed.
   If only a start date is set, all logs from the start date to the current date will be displayed.
   If only an end date is set, all logs from the earliest existing log to the end date will be displayed.

3. **Operation filter**
   Uses the input to perform a partial-match search of operations.

4. **IP address filter**
   Uses the input to perform a partial-match search of IP addresses.

5. **User name filter**
   Uses the input to perform a partial-match search of user names.

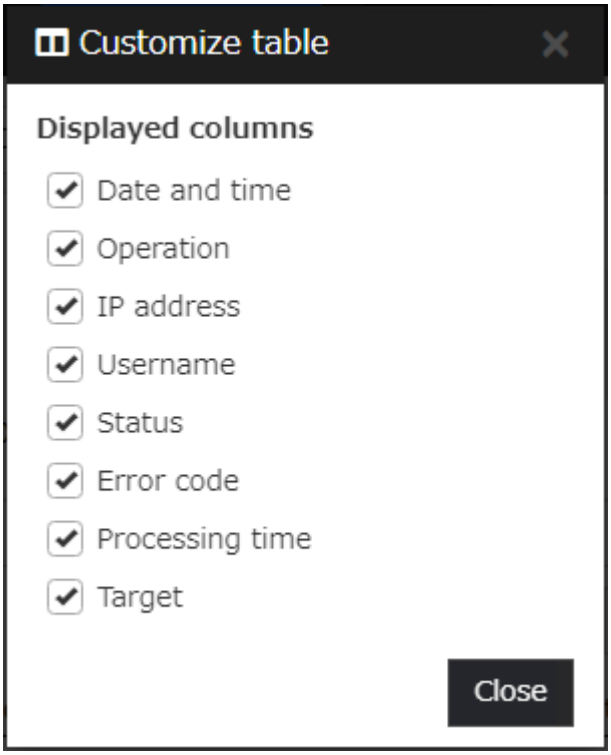
6. **Status filter**
   Uses the input to perform a partial-match search of statuses.

7. **Error code filter**
   Uses the input to perform a partial-match search of error codes.

8. **Target filter**
   Uses the input to perform a partial-match search of targets.

Customize table

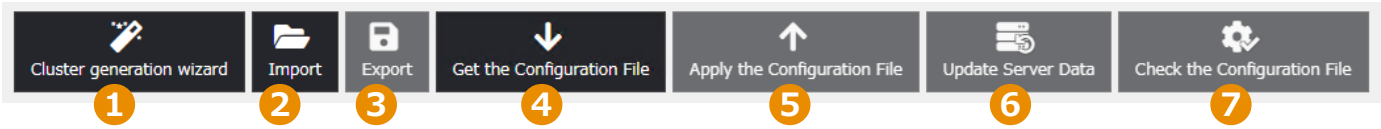
The Customize table feature allows you to hide or show operation log table columns.



Select or deselect columns to show or hide them.
Customize table settings are saved and will be restored the next time the Operation logs page is opened.

Config mode
Overview

In Config Mode, cluster configurations can be edited, imported, and exported.



1. **Cluster generation wizard**
   New cluster configurations can be created using the Cluster generation wizard.

2. **Import**
   Cluster configuration files can be imported from a local folder.
   Cluster configurations backed up from previous versions or the clpcfctrl command must be compressed into a zip file before being imported.
   Create the zip file so that when unzipped, the clp.conf file and scripts directory are created.

3. **Export**
   Cluster configuration files can be exported to a local folder.
   Exported cluster configurations must be decompressed before specifying them with the -x option of the clpcfctrl command.

   > **Note:** When using Internet Explorer 11, an error may occur when downloading configuration files.
   > Refer to Notes and Restrictions - Log collection, configuration export, and CSV download for more information.

4. **Get the Configuration File**
   Cluster configurations can be retrieved from servers

5. **Apply the Configuration File**
   Edited cluster configurations can be applied to servers.

6. **Update Server Data**
   IP and device information of each server composing the cluster can be updated.

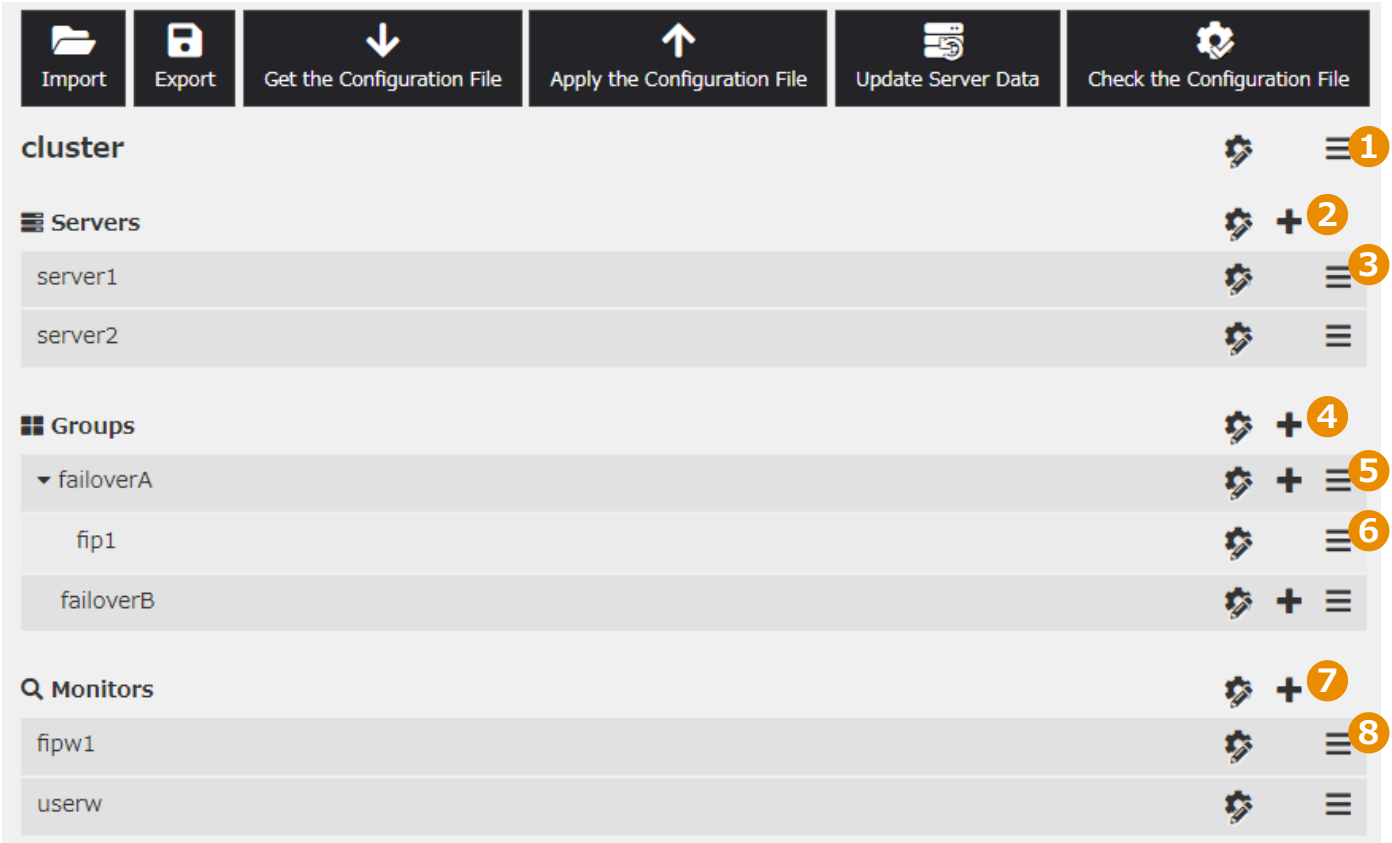
7. **Check the Configuration File**
   Edited cluster configuration information can be checked before applying or exporting it.

   > **Note:** If pop-ups are blocked in your web browser settings, the cluster configuration information check result cannot be displayed.
   > Refer to Notes and Restrictions - About displaying the cluster configuration information check result for more information.

Config mode

Edit area

Cluster configurations can be edited in the Edit area.



1. **Cluster**

   Edit properties
   Cluster properties can be edited.

   Others
   Clicking here displays a menu.

   Rename the cluster
   Cluster names can be changed.

   Remove the cluster
   Clusters can be removed.

2. **Servers**

   Edit properties
   Cluster properties common to all servers can be edited.

   Add
   Servers can be added.

3. **Server**

   Edit property
   Server properties can be edited.

   Others
   Clicking here displays a menu.

   Rename the server
   Server names can be changed.

   Remove the server
   Servers can be removed.

4. **Groups**

   Edit properties
   Properties common to all groups can be edited.

   Add
   Groups can be added.

5. **Group**

   Edit properties
   Group properties can be added.

   Add
   Group resources can be added.

   Others
   Clicking here displays a menu.
   Rename the group
   Group names can be changed.
   Copy the group
   Groups can be copied.
   Remove the group
   Groups can be removed.

6. **Group resource**

   Edit properties
   Group resource properties can be edited.

   Others
   Clicking here displays a menu.
   Rename the group resource
   Group resource names can be changed.
   Copy the group resource
   Group resources can be copied.
   They cannot be copied to other groups.
   Move the group resource
   Group resources can be moved from group to group.
   Remove the group resource
   Group resources can be removed.

7. **Monitors**

   Edit properties
   Monitor properties can be edited.

   Add
   Monitor resources can be added.

8. **Monitor resource**

   Edit properties
   Monitor resource properties can be edited.

   Others
   Clicking here displays a menu.
   Rename the monitor resource
   Monitor resource names can be changed.
   Copy the monitor resource
   Monitor resources can be copied.

Remove the monitor resource

Monitor resources can be removed.

Other

Notes and Restrictions

1. **Displaying the latest information**
   (1)The information displayed in Cluster WebUI does not necessarily represent the latest status. If you want to get the latest information, click the Refresh Data button.

   (2)If issues such as server shutdown occur while Cluster WebUI is retrieving information, retrieval may fail and objects may partially be displayed incorrectly.
   Wait for the next automatic update or click the Refresh Data button to reacquire the latest information.

   (3)If you went to [Cluster Properties] - the [WebManager] tab - the [Tuning] button - [WebManager Tuning Properties] dialog box, and then changed the settings of [Screen Data Refresh Interval] and [Use Time Information Display Function]: After applying the settings, restart Cluster WebUI.

2. **Simultaneous collection of logs**
   Collecting of logs cannot be executed from two or more Cluster WebUI clients simultaneously.

3. **Log collection, configuration export, and CSV download**
   When using Internet Explorer 11, an error may occur when cluster log collection, configuration export, or CSV download is performed.
   In such cases, enable the following setting in Internet Explorer's Internet Options:
   Open [Security] tab - [Internet] - [Custom level] - [Downloads] - [File Download] and select [Enable].

4. **About simultaneous execution of checking the configuration file**
   Checking the configuration file cannot be executed from two or more Cluster WebUI clients simultaneously.

5. **About displaying the cluster configuration information check result**
   Configure your web browser to allow pop-ups from the address of the server connected to Cluster WebUI.

6. **About displaying alert-log messages**
   A small size of browser display may prevent the entire message list from being displayed.
   The Compatibility View feature of Internet Explorer is not supported.