

Cluster WebUI Help

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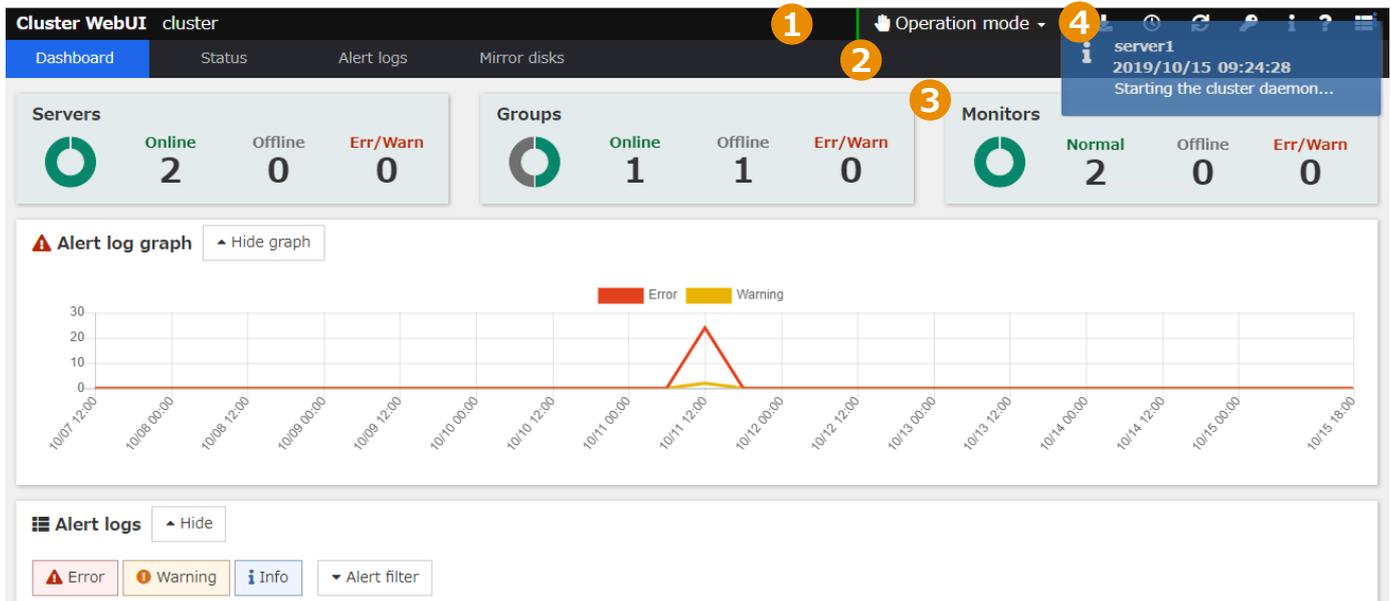
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General Overview

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 top 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

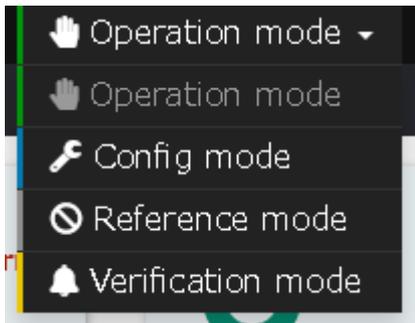


1. Cluster name

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.

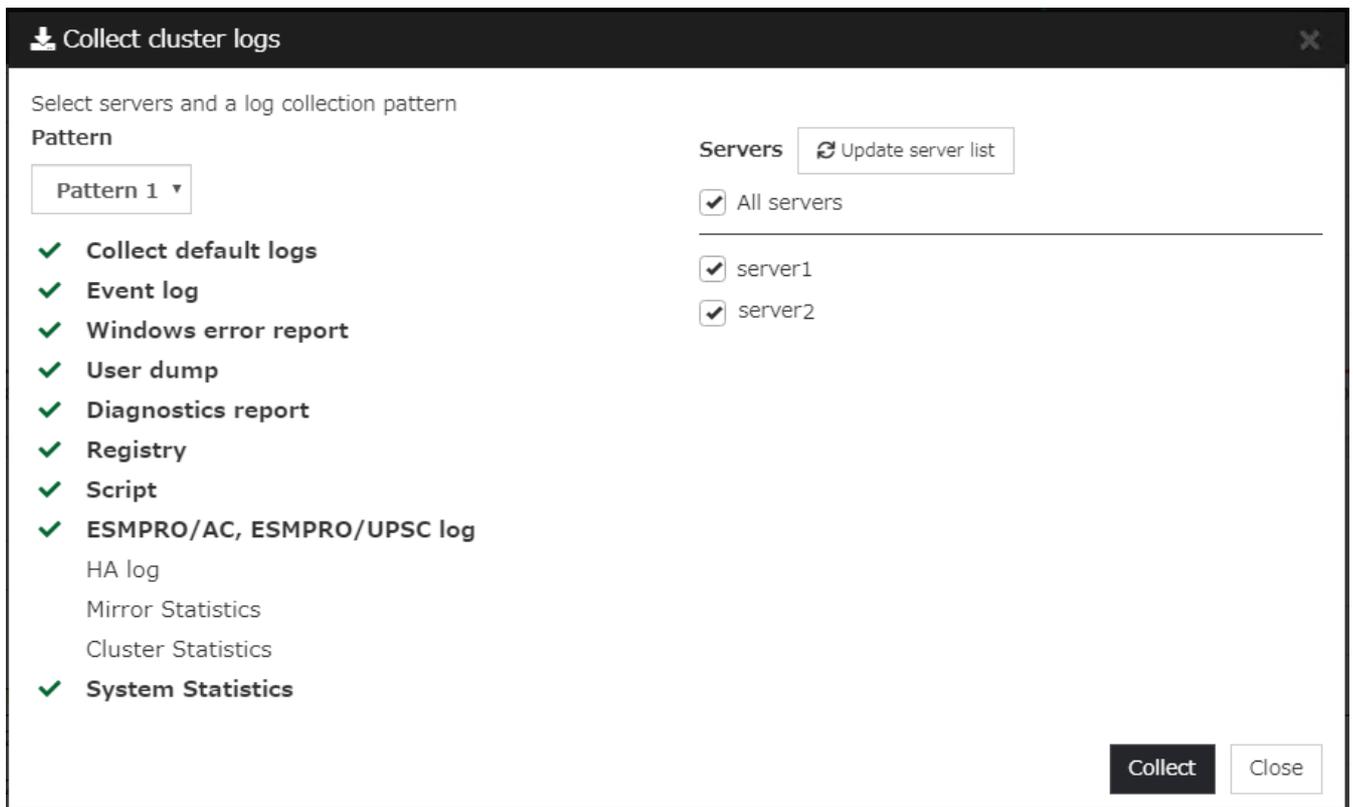
3. Collect cluster logs

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.

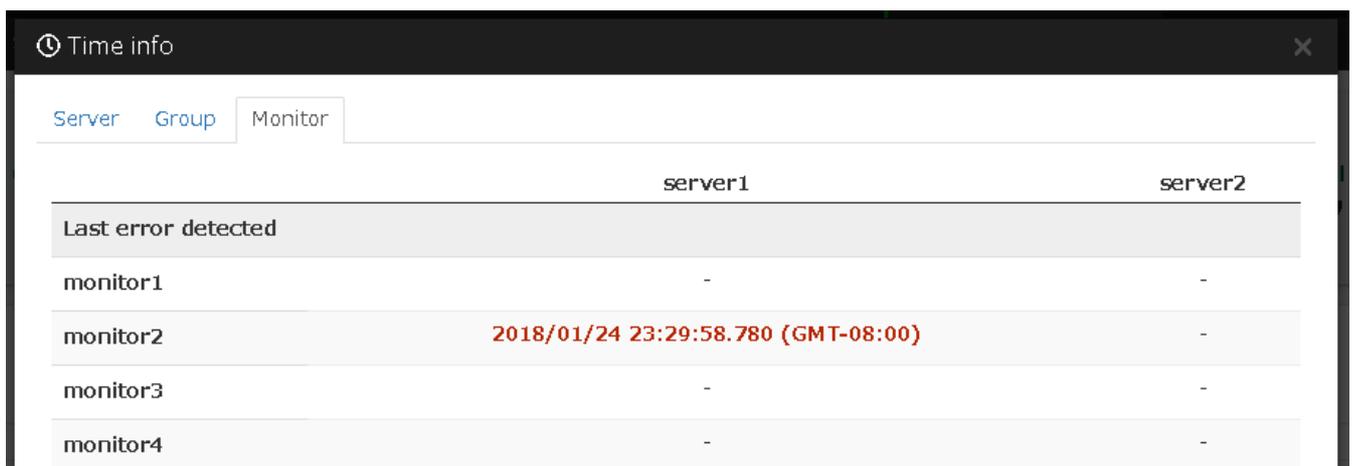


Note: An error may occur with Internet Explorer 11 when downloading logs. Refer to Notes and Restrictions - About log collection and configuration export for more information.

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.

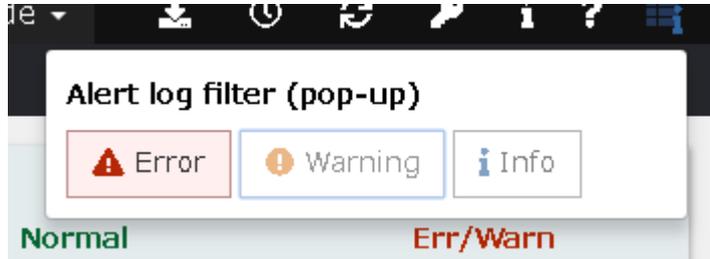
8. Help

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 on cluster servers.

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.

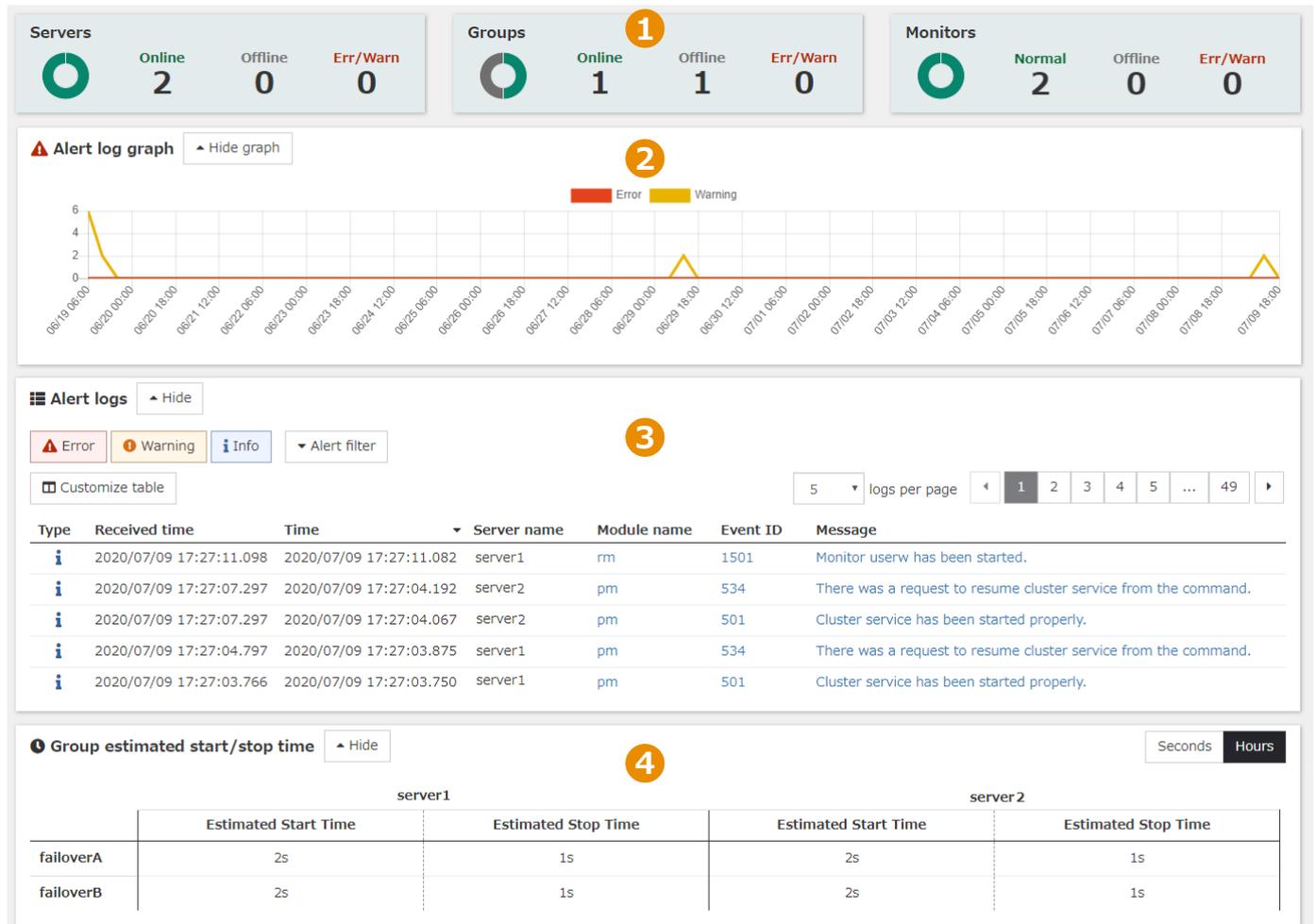
4. **Mirror disks**

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.

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.

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

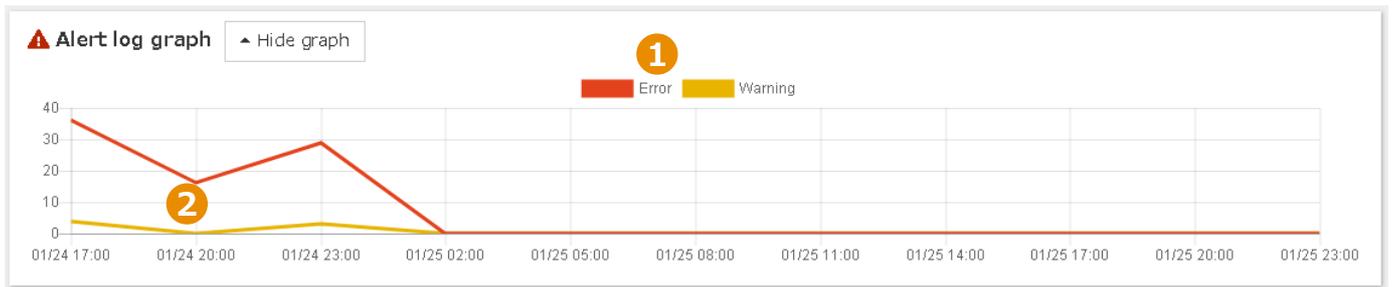
The number of servers, groups and monitors are displayed. The status is indicated as: Green (Normal), Gray (Stopped) or Red (Error/Warning).

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).

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).



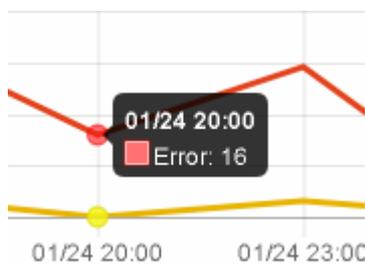
1. Alert log type select

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.



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.

Type	Received time	Time	Server name	Module name	Event ID	Message
i	2020/07/09 17:27:11.098	2020/07/09 17:27:11.082	server1	rm	1501	Monitor userw has been started.
i	2020/07/09 17:27:07.297	2020/07/09 17:27:04.192	server2	pm	534	There was a request to resume cluster service from the command.
i	2020/07/09 17:27:07.297	2020/07/09 17:27:04.067	server2	pm	501	Cluster service has been started properly.
i	2020/07/09 17:27:04.797	2020/07/09 17:27:03.875	server1	pm	534	There was a request to resume cluster service from the command.
i	2020/07/09 17:27:03.766	2020/07/09 17:27:03.750	server1	pm	501	Cluster service has been started properly.

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.

Group estimated start/stop time

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

	server1		server2	
	Estimated Start Time	Estimated Stop Time	Estimated Start Time	Estimated Stop Time
failoverA	2s	3m 21s	1s	-
failoverB	2s	1s	-	-

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.

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.

Server	Server group list	server1	server2
▼ Server		Online	Online
Group			
▼ group1		Offline	Online
Monitor	⏸ ⏩		
▼ monitor1		Normal	Normal
▼ monitor2		Normal	Normal

1. Cluster status

The current overall status of the cluster.

2. 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.

3. 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.

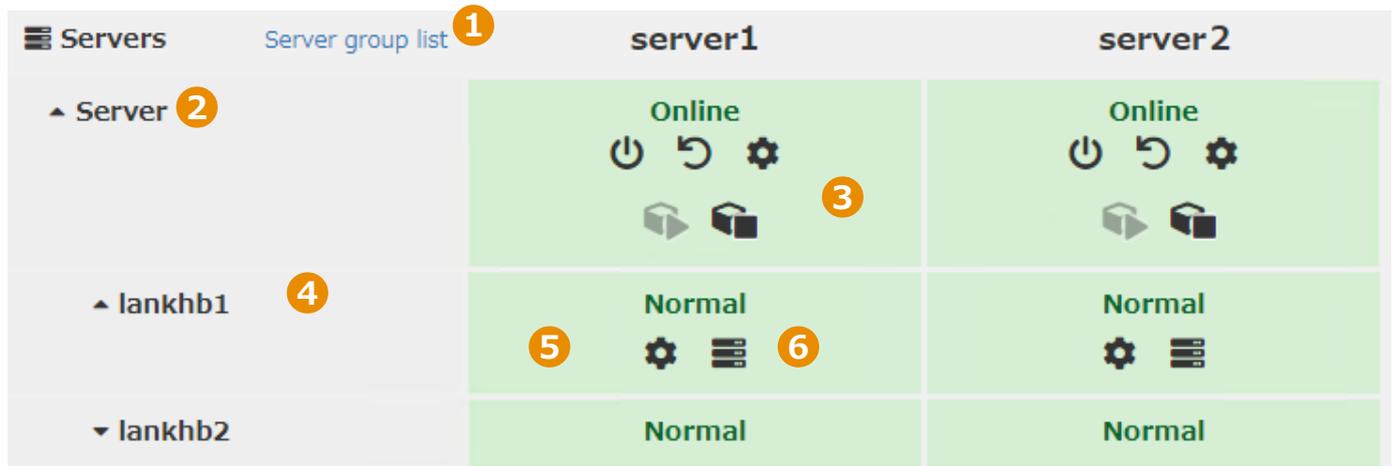
When there are four or more servers present, you can also manually select the number of servers shown by using the 'servers per page' dropdown box.

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 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 the server service

Stop the server service.

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 heartbeat resource/NP resolution resource.

6. Resource status

View the heartbeat 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. Group

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

Group properties

View the group's properties.

3. 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.

Live migrate group

Live migrate the group from its current server to the selected server.

4. 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.

5. Group resource actions

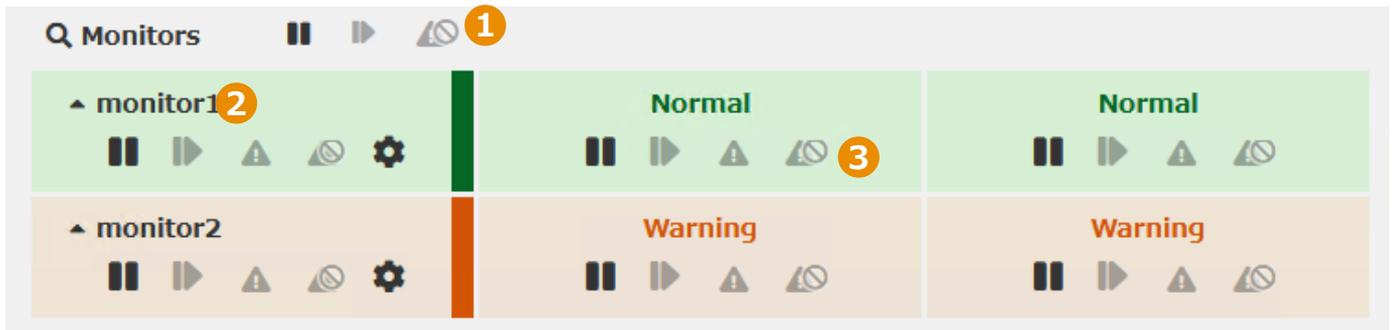
Stop group resource

Stop the group resource.

Start group resource

Start the group resource.

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. 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.

3. 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 Retrieve logs.

Number of alert logs to retrieve

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.

The screenshot shows the 'Alert logs' interface. At the top, there are filter buttons for 'Error', 'Warning', and 'Info', along with an 'Alert filter' dropdown menu. Below this is a 'Customize table' button and a pagination control showing '5 logs per page' with page numbers 1, 2, 3, 4, 5, and 49. The main table has columns for Type, Received time, Time, Server name, Module name, Event ID, and Message. The first row shows an info message from server1 with event ID 1501. The second row shows an info message from server2 with event ID 534. The third row shows an info message from server2 with event ID 501. The fourth row shows an info message from server1 with event ID 534. The fifth row shows an info message from server1 with event ID 501. Red circles with numbers 1, 2, and 3 highlight the 'Alert filter', 'Customize table', and 'Module name' columns respectively.

Type	Received time	Time	Server name	Module name	Event ID	Message
i	2020/07/09 17:27:11.098	2020/07/09 17:27:11.082	server1	rm	1501	Monitor userw has been started.
i	2020/07/09 17:27:07.297	2020/07/09 17:27:04.192	server2	pm	534	There was a request to resume cluster service from the command.
i	2020/07/09 17:27:07.297	2020/07/09 17:27:04.067	server2	pm	501	Cluster service has been started properly.
i	2020/07/09 17:27:04.797	2020/07/09 17:27:03.875	server1	pm	534	There was a request to resume cluster service from the command.
i	2020/07/09 17:27:03.766	2020/07/09 17:27:03.750	server1	pm	501	Cluster service has been started properly.

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.

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.

The image shows a filter interface for alert logs. At the top, there are four buttons: 'Error' (red), 'Warning' (orange), 'Info' (blue), and 'Alert filter' (grey). Below these are several input fields: a 'Time' field with two boxes and a tilde symbol, a 'Server name' field, a 'Module name' field, an 'Event ID' field, and a 'Message' field. Seven orange circles with numbers 1 through 7 are overlaid on the interface to indicate key elements: 1 points to the log type buttons, 2 points to the 'Alert filter' button, 3 points to the time filter boxes, 4 points to the 'Server name' field, 5 points to the 'Module name' field, 6 points to the 'Event ID' field, and 7 points to the 'Message' field.

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

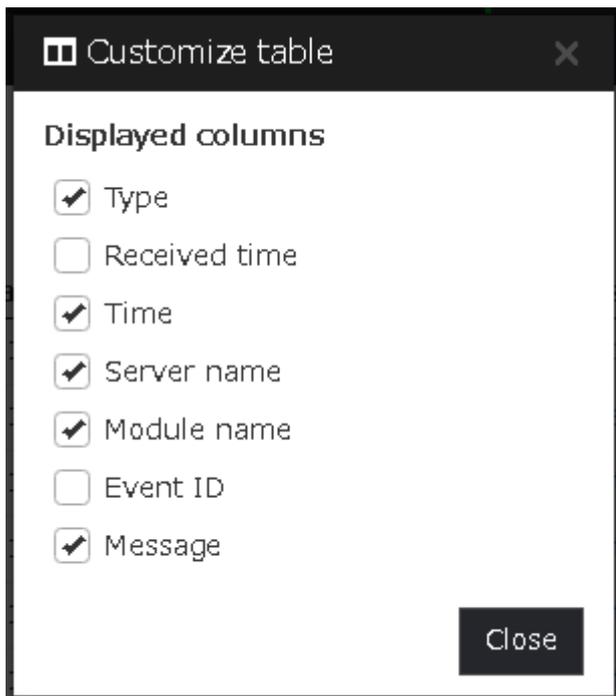
Uses the input to perform a partial-match search of event IDs.

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.



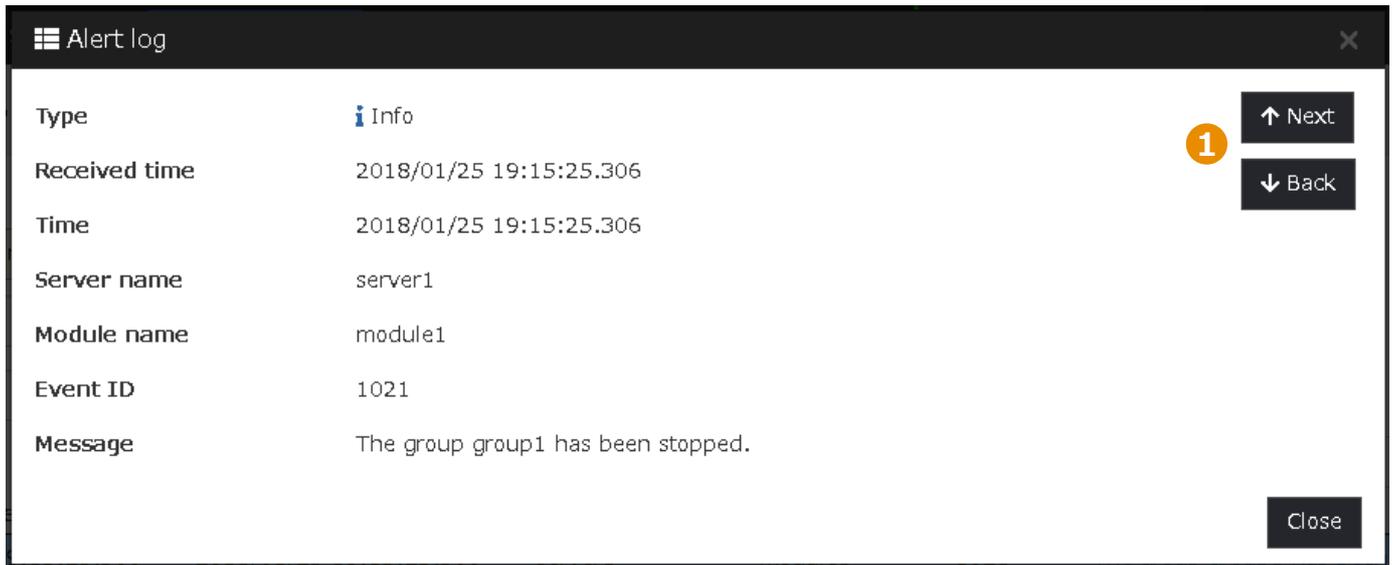
Select or deselect columns to show or hide them.

Customize table settings are saved and will be restored the next time the Alert logs page is opened

Alert logs

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.



The screenshot shows a dialog box titled "Alert log" with a close button (X) in the top right corner. The dialog contains a table of log details and navigation controls. A yellow circle with the number "1" is positioned to the left of the "Next" button.

Type	Info
Received time	2018/01/25 19:15:25.306
Time	2018/01/25 19:15:25.306
Server name	server1
Module name	module1
Event ID	1021
Message	The group group1 has been stopped.

Navigation buttons: ↑ Next, ↓ Back, and Close.

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.

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			2			3		
Mirror disk name	Synchronization mode	Difference copy	Server name	Active	Status	Server name	Active	Status
md1	Synchronous	Possible	server1	Inactive	Normal	server2	Inactive	Abnormal
md2	Synchronous	--	server1	Active	Normal	server2	Inactive	Normal

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.

Mirror disk name	Synchronization mode	Difference copy	Server name	Active	Status	Progress	Server name	Active	Status	
md1	Synchronous	Possible	server1	 2	Active	Recovering	35% (00:00:06 remaining)	server2	Inactive	Recovering
md2	Synchronous	--	server1		Active	Normal		server2	Inactive	Normal

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

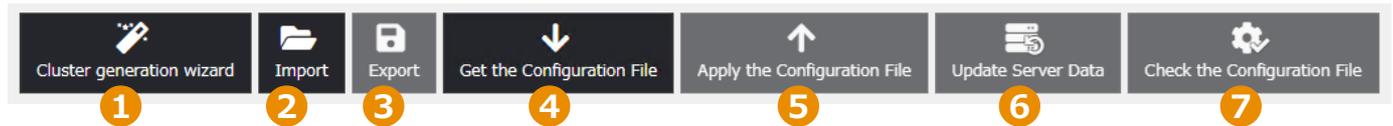
Turn access restriction off for the mirror disk on the selected server.

Cancel

Cancel the disk copy.

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 - About log collection and configuration export for more information.

4. Get the Configuration File

Cluster configurations can be retrieved from cluster servers

5. Apply the Configuration File

Edited cluster configurations can be applied to cluster 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.

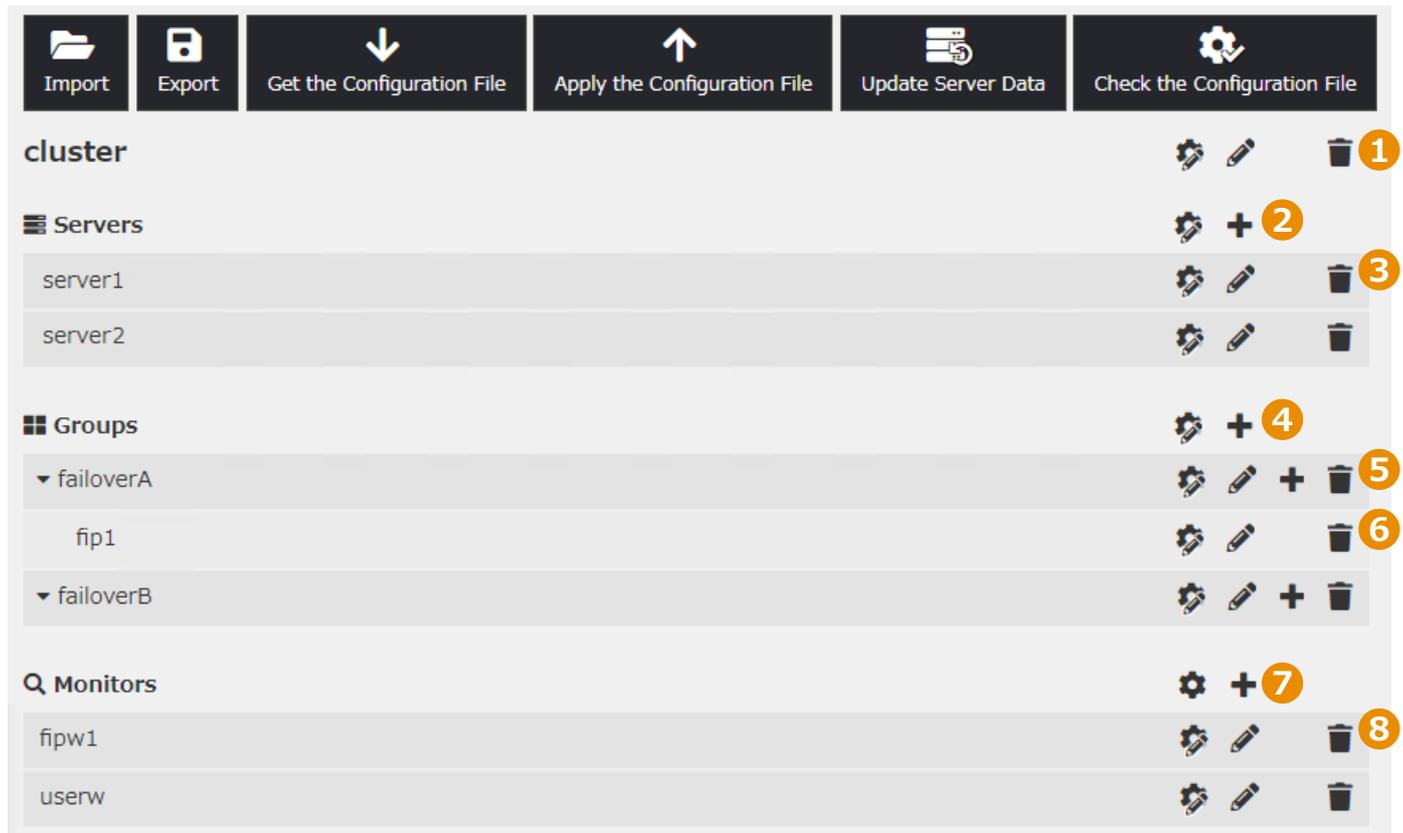
Note: If pop-ups are blocked in your web browser settings, the cluster configuration information check result cannot be displayed.

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.



Change name

Cluster name can be changed.



Delete

Cluster can be deleted.

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.



Change name

Server names can be changed.



Delete

Servers can be deleted.

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.

 **Change name**

Group names can be changed.

+ Add

Group resources can be added.

 **Delete**

Groups can be deleted.

6. Group resource

 **Edit properties**

Group resource properties can be edited.

 **Change names**

Group resource names can be changed.

 **Delete**

Group resources can be deleted.

7. Monitors

 **View properties**

Displays the list of monitor resources.

+ Add

Monitor resources can be added.

8. Monitor resource

 **Edit properties**

Monitor resource properties can be edited.

 **Change names**

Monitor resource names can be changed.

 **Delete**

Monitor resources can be deleted.

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 EXPRESSCLUSTER logs cannot be executed from two or more Cluster WebUI clients simultaneously.

3. **About log collection and configuration export**

When using Internet Explorer 11, an error may occur when cluster log collection or configuration export 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.