

Integrated Cluster WebUI Help

General

[Overview](#)

Toolbar

[Overview](#)

[Configure server groups](#)

[Manage folder](#)

[Register cluster](#)

[Deregister cluster](#)

Main

[Overview](#)

[Cluster list](#)

[Summary boxes](#)

[Status of a selected cluster](#)

[Status of a selected cluster - Cluster](#)

[Status of a selected cluster - Servers](#)

[Status of a selected cluster - Groups](#)

[Status of a selected cluster - Monitors](#)

[Statuses in a selected folder](#)

[Statuses in a selected folder - Move groups between server groups](#)

Others

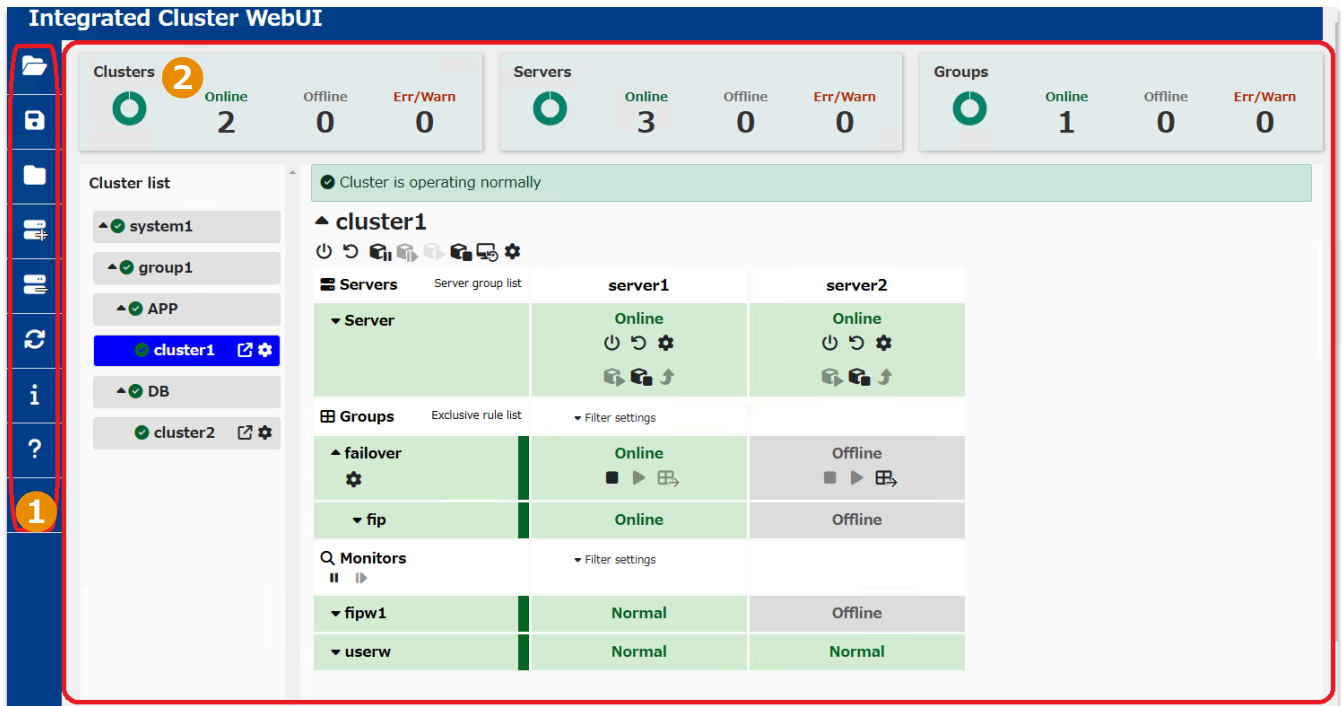
[Notes and restrictions](#)

General Overview

Integrated Cluster WebUI allows you to manage cluster systems in a centralized way, such as to monitor their statuses.

The main screen of Integrated Cluster WebUI consists of the following two areas.

A cluster represents a system of EXPRESSCLUSTER X/EXPRESSCLUSTER X SingleServerSafe (SSS) hereinafter.



1. Toolbar

This area enables you to activate various functions.
For more information, see the [Toolbar](#) section below.

2. Main area

This area allows you to check statuses of registered clusters.
For more information, see the [Main](#) section below.

Toolbar

Overview

This area enables you to activate various functions.



1. **Import**

Imports a configuration file for Integrated Cluster WebUI.
This file includes data on registered clusters.

2. **Export**

Exports a configuration file for Integrated Cluster WebUI.

3. **Configure server groups**

Allows creating, deleting, renaming, and reordering server groups.
For more information, see the [Configure server groups](#) section below.

4. **Manage folder**

Allows creating, deleting, and renaming a folder; and changing its status display method.
For more information, see the [Manage folder](#) section below.

5. **Register cluster**

Allows registering a cluster.
For more information, see the [Register cluster](#) section below.

6. **Deregister cluster**

Allows deregistering clusters.
For more information, see the [Deregister cluster](#) section below.

7. **Update**

Obtains the latest data on all registered clusters.

8. **About this app**

Displays version information on Integrated Cluster WebUI.

9. **Online help**

Displays online help on Integrated Cluster WebUI.

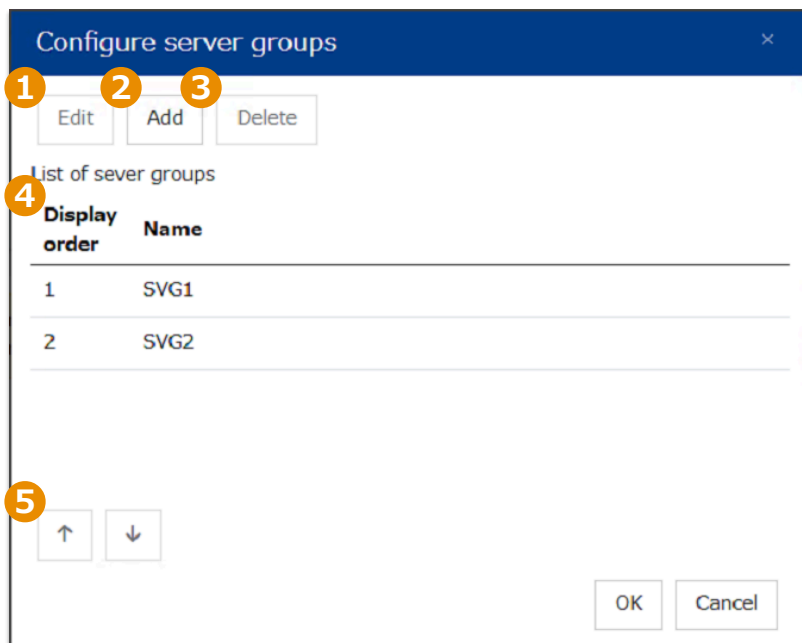
10. **Log out**

Logs you off Integrated Cluster WebUI.

Toolbar

Configure server groups

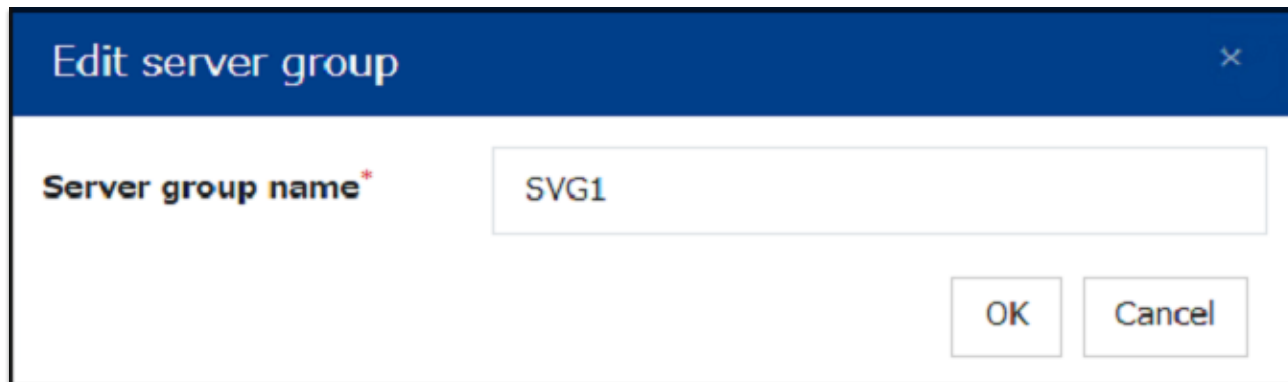
Allows creating, deleting, renaming, and reordering server groups.



Note: At least two server groups must be registered.

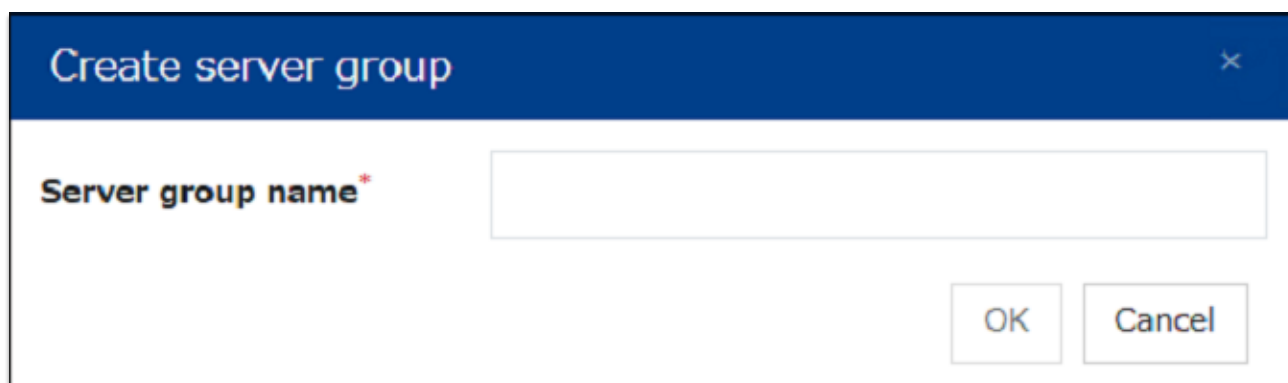
1. Edit

Allows changing the name of a selected server group.



2. Add

Allows creating a new server group.



3. Delete

Removes a selected server group.

4. List of sever groups

Shows all created server groups.

5. **Arrows**

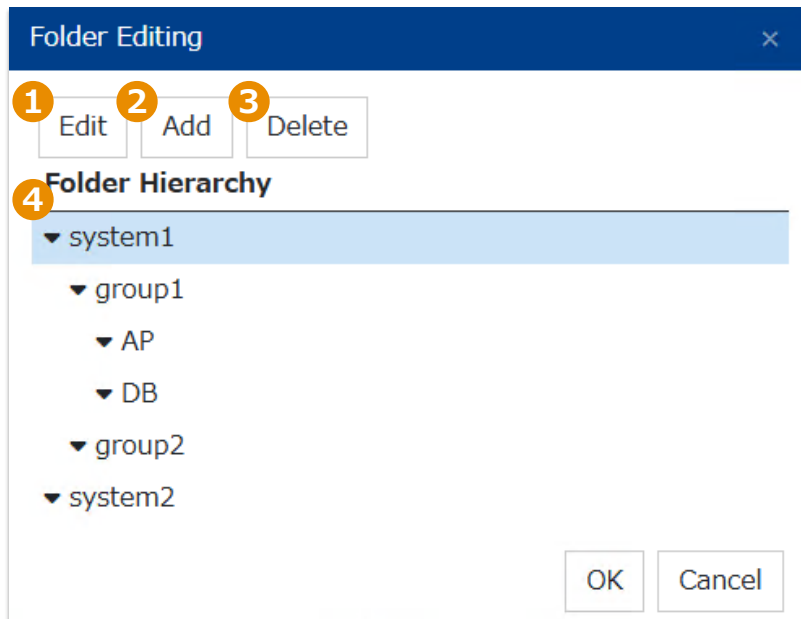
Changes the display order of server groups. Select a server group from List of server groups, then click one of the arrows.

The display order of server groups is applied to that in the status table described in Statuses in a selected folder.

Toolbar

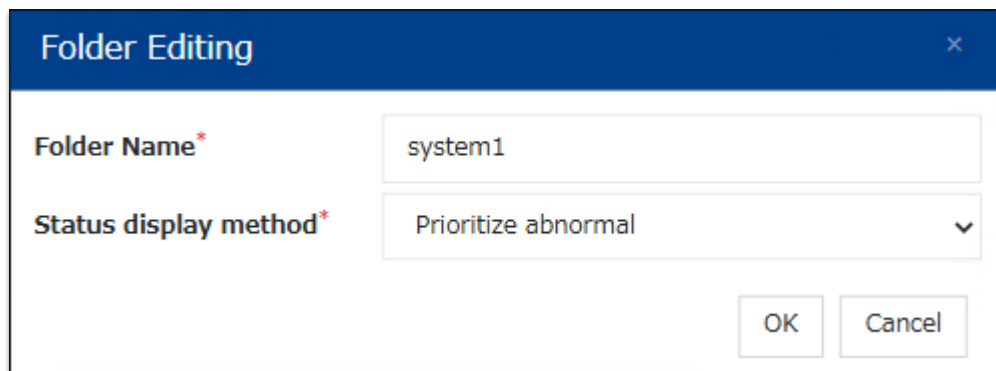
Manage folder

Allows creating, deleting, and renaming a folder; and changing its status display method.



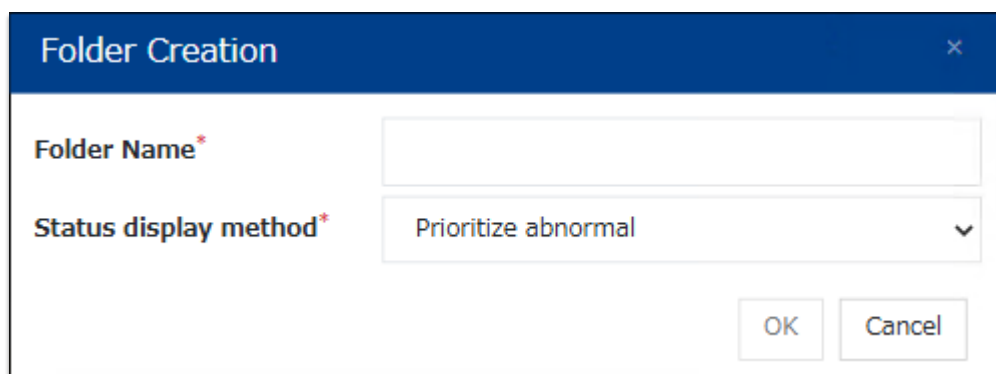
1. Edit

Allows changing the name and status display method of a selected folder.



2. Add

Allows creating a new folder.



If a folder is created with an existing folder selected:

The new folder is created in the existing folder.

This folder hierarchy can consist of up to three levels.

If a folder is created with no existing folder selected:

The new folder is created at the top level.

3. **Delete**

Removes a selected folder.

Note: Also deletes the subfolders and clusters contained within a selected folder.

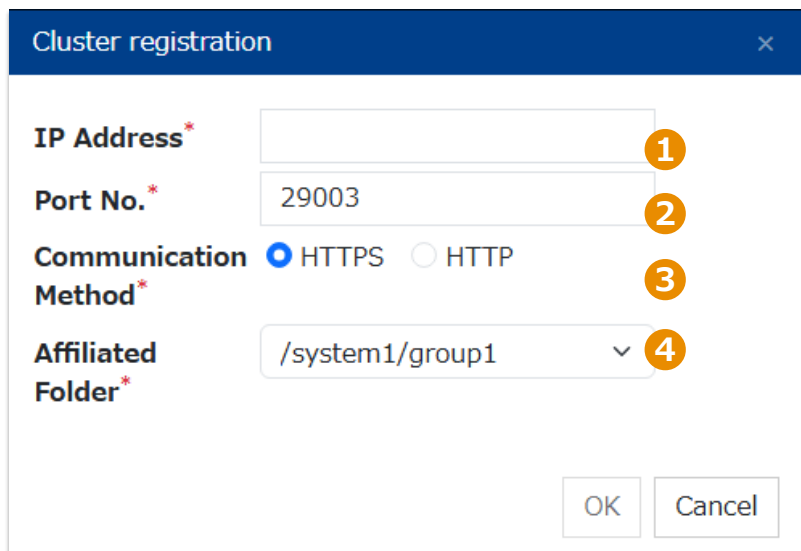
4. **Folder hierarchy**

Shows how created folders are organized.

Toolbar

Register cluster

Allows registering a built cluster.



The image shows a 'Cluster registration' dialog box with a blue title bar and a close button. It contains four fields, each with a numbered orange circle to its right: 1. 'IP Address*' (empty text box), 2. 'Port No.*' (text box containing '29003'), 3. 'Communication Method*' (radio buttons for 'HTTPS' (selected) and 'HTTP'), and 4. 'Affiliated Folder*' (dropdown menu showing '/system1/group1'). At the bottom right are 'OK' and 'Cancel' buttons.

1. IP address

Enter the managing IP address of a cluster or the real IP address of a cluster server.

Note: Before registering a cluster, start it up.

2. Port number

Enter the port number of WebManager (default, 29003).

3. Communication method

Select a communication method (default, HTTPS).

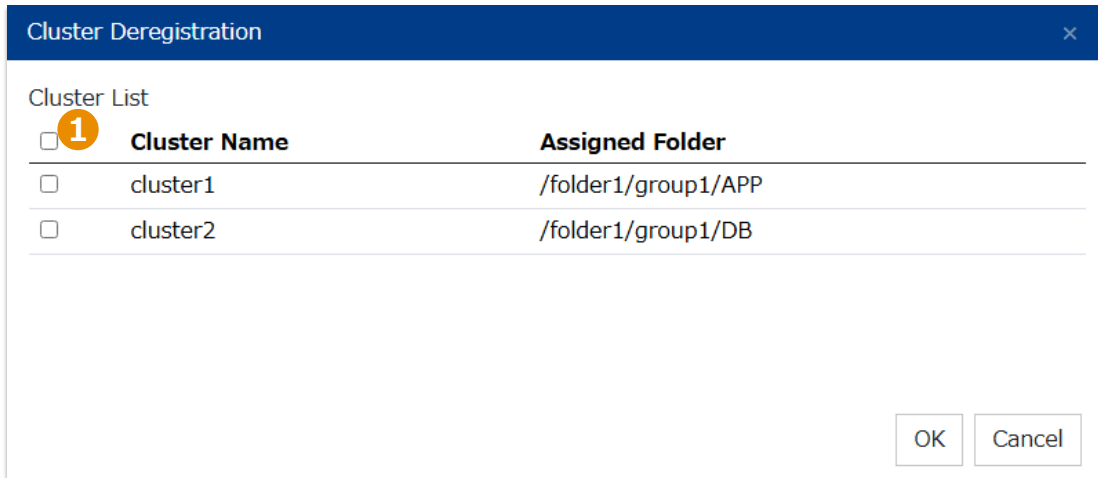
4. Destination folder

Select a folder to which you make the cluster belong.

Toolbar

Deregister cluster

Allows deregistering clusters.



1. Deregister cluster

Select the checkboxes of clusters to be deregistered, then click OK.

Main Overview

This area allows you to check statuses of registered clusters.

The screenshot displays a dashboard with three summary boxes at the top: Clusters (2 Online, 0 Offline, 0 Err/Warn), Servers (3 Online, 0 Offline, 0 Err/Warn), and Groups (1 Online, 0 Offline, 0 Err/Warn). Below these is a 'Cluster list' sidebar (1) containing folders like system1, group1, APP, cluster1 (selected), DB, and cluster2. The main area (3) shows a status bar 'Cluster is operating normally' and a detailed view for 'cluster1'. This view includes a 'Servers' table with columns for server1 and server2, both showing 'Online' status. Below is a 'Groups' table with columns for failover and fip, showing 'Online' for failover and 'Offline' for fip. At the bottom is a 'Monitors' table with columns for fipw1 and userw, both showing 'Normal' status.

Server	server1	server2
Server	Online	Online
Groups		
failover	Online	Offline
fip	Online	Offline
Monitors		
fipw1	Normal	Offline
userw	Normal	Normal

1. Cluster list

Shows how folders and registered clusters are organized.
For more information, see the [Cluster list](#) section below.

2. Summary boxes

Shows statuses of all registered clusters, servers, and groups.
For more information, see the [Summary boxes](#) section below.

3. Status

Selecting a cluster from Cluster list displays the status of the cluster, in terms of its servers, groups, resources, and monitors.

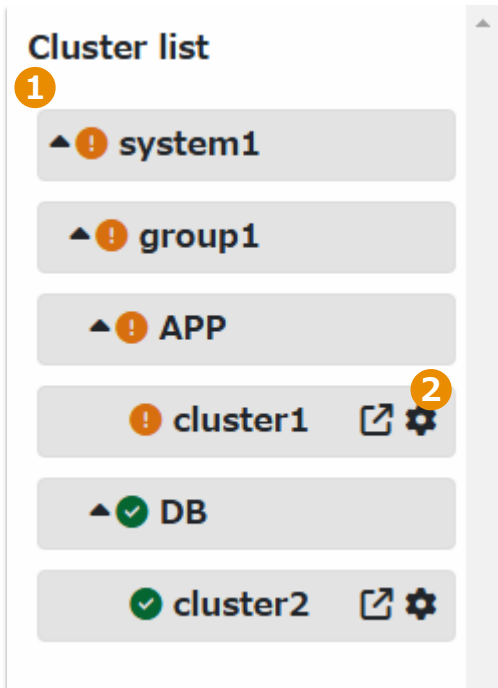
For more information, see the [Status of a selected cluster](#) section below.

Selecting a folder from Cluster list displays the statuses of clusters in the folder, in terms of the clusters' server groups and groups.

For more information, see the [Statuses in a selected folder](#) section below.

Main

Cluster list



1. Tree view

Shows a tree structure containing added folders and clusters.

[Status icon]

For each cluster:

Represents its status as a whole.

 **Normal**

 **Abnormal**

 **Warning**

 **Suspended/Stopped/Unknown**※1

 **Authentication error**※2

(※1)The term "Unknown" indicates a failure to receive the cluster's status.

(※2)The term "Authentication error" indicates a failure to authenticate the cluster. In this case, click the logout button, check the cluster's OS authentication method settings, and then try to log in again.

For each folder:

Represents a whole status of the subfolders and clusters registered in the folder.

The meaning of each of the above icons varies with the selected status display method.

With **Prioritize abnormal** selected:

When a folder includes at least one cluster/subfolder whose status is **Abnormal**, the folder is also marked as **Abnormal**.

 **Normal**

about the whole status of the subfolders and clusters registered in the folder

Abnormal

for at least one abnormality in the subfolders and clusters registered in the folder

Warning

with at least one of these statuses (suspended, stopped, and unknown) existing, but without any abnormality, in the subfolders and clusters registered in the folder or with only authentication-error clusters existing in the folder

With **Prioritize normal** selected:

When a folder includes at least one cluster/subfolder whose status is **Normal**, the folder is also marked as **Normal**.

Normal

for at least one normal subfolder or cluster registered in the folder

Abnormal

about the whole status of the subfolders and clusters registered in the folder

Warning

with at least one of the statuses (warning, suspended, stopped, and unknown) existing, but with no normal status, in the subfolders and clusters or with only authentication-error clusters existing in the folder

2. **Actions**

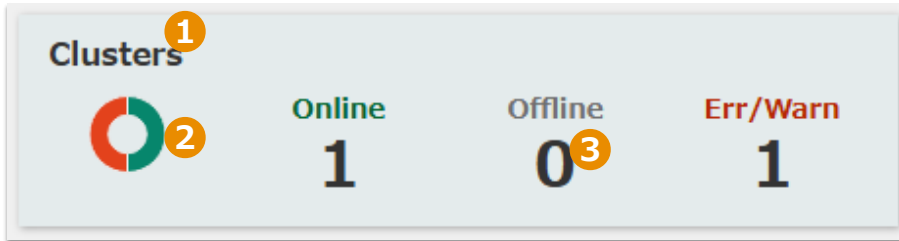
Edit cluster configuration

Allows changing the destination folder.

Connect to Cluster WebUI

Connects to Cluster WebUI.

Main Summary boxes



1. **Type**

Shows a type of item: Clusters, Servers, or Groups.

2. **Donut chart**

Illustrates how many clusters/servers/groups are registered altogether. The green means normal, the gray means stopped, and the red means abnormal/warning.

3. **Count**

Displays the number of clusters/servers/groups for each of these statuses: Started (normal), Stopped, or Abnormal/Warning.

Main

Status of a selected cluster

Shows the status of a cluster selected from Cluster list, and allows various kinds of operation.

To use config or verification mode for the cluster, connect to its Cluster WebUI. Neither of the modes can be used through Integrated Cluster WebUI.

The screenshot displays the cluster status interface. At the top, a yellow banner (1) contains notes: "[Group Automatic Startup] is disabled.", "[Recovery Operation when Group Resource Activation Failure Detected] is disabled.", "[Recovery Operation when Group Resource Deactivation Failure Detected] is disabled.", "[Recovery Action when Monitor Resource Failure Detected] is disabled.", and "[Failover when Server Failure Detected] is disabled.". Below this, another yellow banner (2) states "Cluster has warnings". The main content area (3) is titled "cluster" and includes a "Servers" section with a "Server group list" table. This table shows two servers, "server1" and "server2", both in an "Online" state with associated control icons. Below the servers is a "Groups" section with an "Exclusive rule list" table. This table shows three groups: "failover" (Offline), "group1" (Offline), and "group2" (Offline). The "failover" group has a red bar on the left, and "group1" has a red bar on the right. Below the groups is a "Monitors" section with a "Filter settings" table. This table shows two monitors: "monitor1" (Normal) and "monitor2" (Suspended). The "monitor2" monitor has a red bar on the right. A yellow circle (4) highlights the "Filter settings" header for the monitors table.

Server	server1	server2
Server	Online	Online

Group	server1	server2
failover	Offline	Error
group1	Offline	Online failure
group2	Offline	Online

Monitor	server1	server2
monitor1	Normal	Normal
monitor2	Normal	Suspended

1. Notes on cluster

Displays notes (only if any) on the cluster.

2. Cluster status

Displays a status of the cluster as a whole.

3. Cluster name

Displays the cluster name. Clicking it opens a list of actions such as rebooting the cluster and viewing its details.

For more information, see the [Status of a selected cluster - Cluster](#) section below.

4. Status table

Displays the statuses of servers, groups, and monitors, and allows performing actions such as starting/stopping individual groups and resources.

Automatically adjusts the display, depending on the browser size.

If the cluster consists of four or more servers: In Number of servers per page, you can specify the number of the servers to be displayed.

For more information on statuses of and actions on servers, see the [Status of a selected cluster - Servers](#) section below.

For more information on statuses of and actions on groups, see the [Status of a selected cluster - Groups](#) section below.

For more information on statuses of and actions on monitors, see the [Status of a selected cluster - Monitors](#) section below.

Status of a selected cluster - Cluster



1. **Cluster name**

Click here to open/close a list of actions on the cluster.

2. **Actions on cluster**

Shut down cluster

Shuts down all servers of the cluster.

Reboot cluster

Reboots all servers of the cluster.

Suspend cluster

Suspends the cluster service.

Resume cluster

Resumes the cluster service.

Start cluster

Start the cluster service.

Stop cluster

Stop the cluster service.

Restart WebManager service

Restarts the WebManager service.

Start mirror agent

Starts the mirror agent.

Stop mirror agent

Stops the mirror agent.

Cluster details

Displays details on the cluster.

Main

Status of a selected cluster - Servers

Servers	Server group list 1	server1	server2
▲ Server 2		Online ⏻ ↺ ⚙️ 🔌 📦 ↶ 3	Online ⏻ ↺ ⚙️ 🔌 📦 ↶
▲ lankhb1 4		Normal ⚙️ 📋 5 6	Normal ⚙️ 📋
▼ lankhb2		Normal	Normal
▼ lankhb3		Normal	Normal

1. Sever group list

Click here to display a list of server groups in a separate window.

2. Server

Click here to open/close a list of actions on each server and its resources.

3. Actions on server

⏻ Shut down server

Shuts down the server.

↺ Reboot server

Reboots the server.

⚙️ Server details

Displays detailed settings for the server.

🔌 Start server service

Starts the server service.

🔌 Stop server service

Stops the server service.

↶ Restore server

Makes the server recover from an abnormal stop.

4. Resource name

Click here to show/hide details on and a status of the resource.

5. Resource details

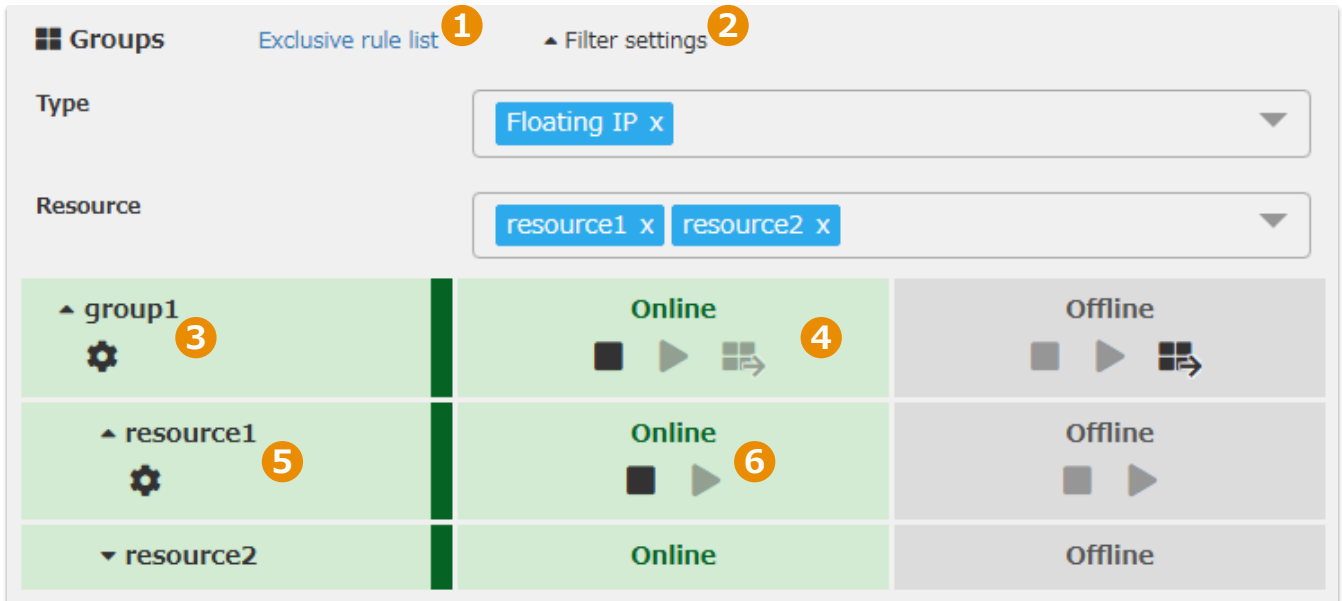
Displays details on the heartbeat resource/NP resolution resource.

6. Resource status

Displays a status of the heartbeat resource/NP resolution resource on the server.

Main

Status of a selected cluster - Groups



1. Exclusive-rule list

Click here to display a list of exclusive rules, attributes, and groups.

2. Filter settings

Click here to show/hide the filter section (Types and Resources).

Selecting items from Types and Resources filters the group resource display.

3. Group

Click a group name here to open/close a list of actions on the group and its resources.

Group details

Displays details on the group.

4. Actions on group

Stop group

Stops the group.

Start group

Starts the group.

Move group

Allows moving the group from the server to another.

5. Group resource

Click a group resource name here to open/close a list of actions on the group resource.

Group resource details

Displays details on the group resource.

6. Actions on group resource

Stop resource

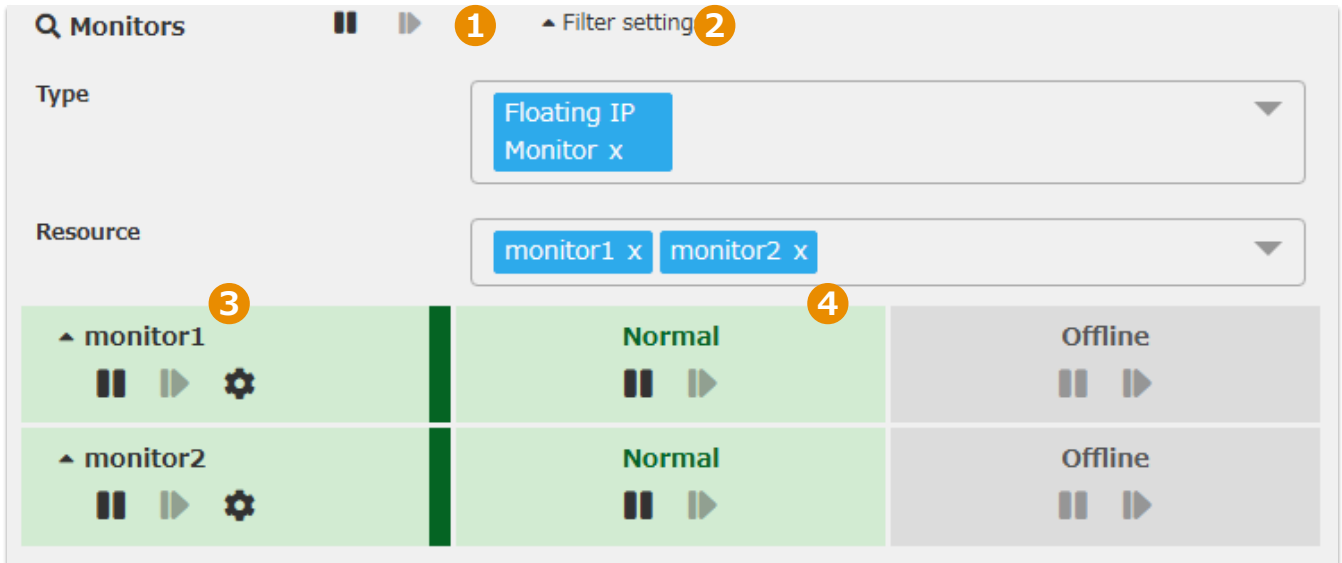
Stops the resource.

Start resource

Starts the resource.

Main

Status of a selected cluster - Monitors



1. Actions on all monitors

Click an action button to display a list of servers in a separate window. Then select a server on which the action is performed.

⏸ Suspend monitoring

Suspends all monitors on a selected server.

▶ Resume monitoring (for all monitors)

Resumes all suspended monitors on a selected server.

2. Filter settings

Click here to show/hide the filter section (Types and Resources).

Selecting items from Types and Resources filters the monitor resource display.

3. Monitor

Click a monitor name here to open/close a list of actions on the monitor.

⏸ Suspend monitor

Suspends the monitor on a selected server.

▶ Resume monitor

Resumes the monitor on a selected server.

⚙ Monitor details

Displays details on the monitor.

4. Actions on monitor

⏸ Suspend monitor

Suspends the monitor.

▶ Resume monitor

Resumes the monitor.

Main

Statuses in a selected folder

Displays the statuses of all clusters in a folder selected from Cluster list, in terms of the clusters' server groups and groups; and allows moving groups together between the server groups.

Note that this screen does not show any cluster or SSS whose configuration is different from that described in the Configure server groups section. Check Cluster WebUI for such a configuration difference in each cluster's server groups or groups.

The screenshot displays a user interface for managing clusters. At the top, a yellow notification banner (1) states: "There is at least one cluster where receiving a group status failed." Below this, a dropdown menu (2) lists clusters: "cluster1 (failover1)", "cluster3 (failover1)", and "cluster4 (failover1)". On the left, a dark button (3) labeled "Move groups between server groups" is visible. The main area is a table with columns "SVG1" and "SVG2". Rows are grouped by cluster (cluster1, cluster3, cluster4). Each row contains three "failover" entries. The status of each entry is indicated by a colored background: grey for "failover1", green for "failover2", and red for "failover3". A yellow circle (2) highlights the "failover3" entry in the first row of the "cluster1" group.

	SVG1	SVG2
cluster1	failover1	failover1
	failover2	failover2
	failover3	failover3
cluster3	failover1	failover1
	failover2	failover2
	failover3	failover3
cluster4	failover1	failover1
	failover2	failover2
	failover3	failover3

1. Notes on cluster

Displays notes (only if any) on the cluster.

2. Status table

Shows a colored status of each of the server groups in a cluster from left to right (in accordance with the display order described in [Configure server groups](#)).

For more information on groups, see [Status of a selected cluster - Groups](#).

3. Move server groups

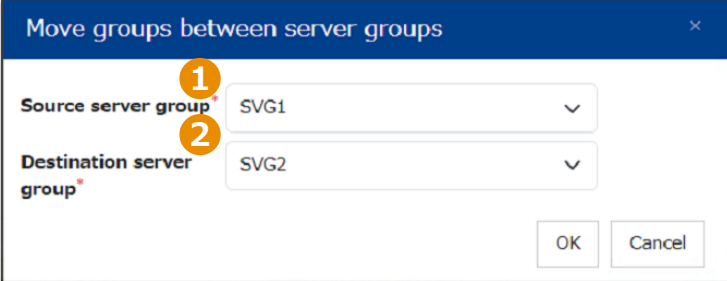
Allows moving groups together between the server groups.

For more information, see [Statuses in a selected folder - Move groups between server groups](#).

Main

Statuses in a selected folder - Move groups between server groups

You can move groups together between the server groups, by selecting a source and a destination server group.



The screenshot shows a dialog box titled "Move groups between server groups". It features two dropdown menus. The first dropdown, labeled "Source server group", has "SVG1" selected. The second dropdown, labeled "Destination server group", has "SVG2" selected. At the bottom right, there are "OK" and "Cancel" buttons. Two orange circles with numbers 1 and 2 are overlaid on the first dropdown menu, indicating the steps for selection.

1. **Source server group**
Select a source server group.
2. **Destination server group**
Select a destination server group.

Others

Notes and restrictions

1. **Status display**

(1) Integrated Cluster WebUI does not always show the newest data.

To get the latest information, click Update.

(2) If Integrated Cluster WebUI fails to obtain data due to a server failure or other issues, some objects may be incorrectly displayed.

Fix the server failure, then log out of and log in again to Integrated Cluster WebUI.

2. **Effect of clearing the browser cache**

After configuring Integrated Cluster WebUI , clearing the browser cache also removes data on the folder hierarchy and registered clusters.

To save the current data on them, export its configuration data file.

3. **Storage restriction on the browser**

Depending on how the storage is used by others (e.g., another Web application), the browser may fail to store correct data on the folder hierarchy and registered clusters.