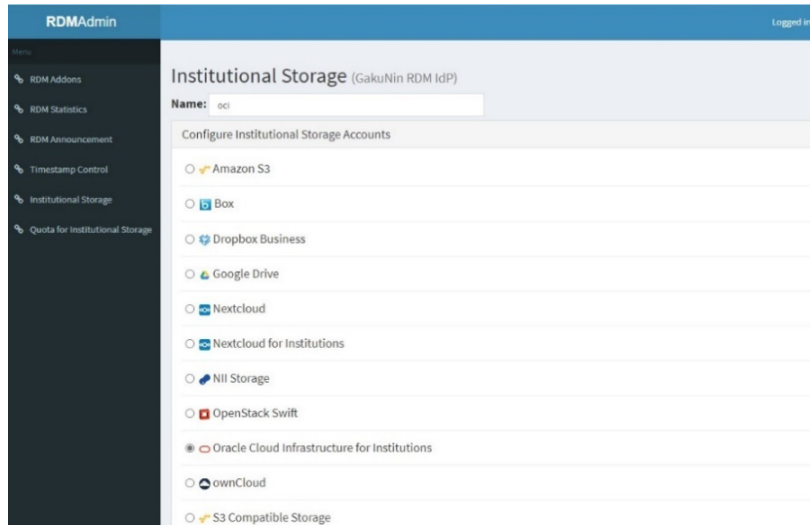


# Institutional Storage Function

This function can be operated by the institutional administrator from the admin screen. The storage that is mainly used within an institution is called the institutional storage.

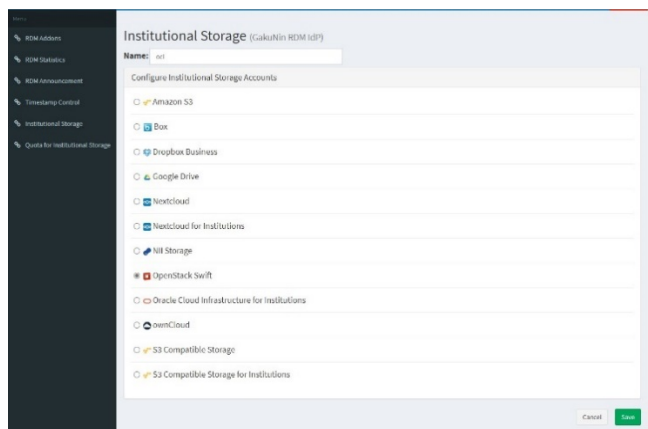
In GakuNin RDM, you will select the storage to be mainly used from the list of storage services and operate it as the institutional storage.

You can enter the required information for each provider in 'Institutional Storage' in the menu. Each user interface is different for each storage service. Please select the storage service from (1) to (7) below and check the operational method.



## (1) Selecting Swift as institutional storage

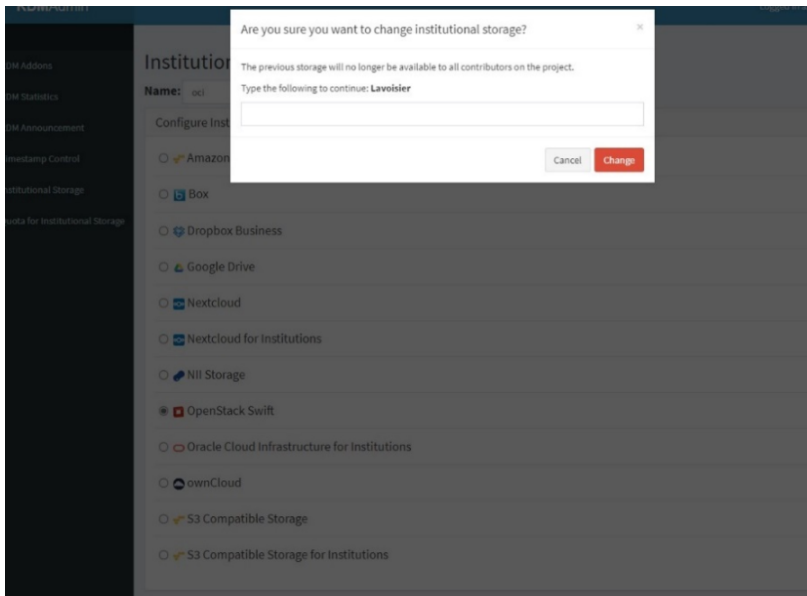
① On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select OpenStack Swift, and click the 'Save' button.



② A confirmation screen will be displayed for changing the institutional storage.

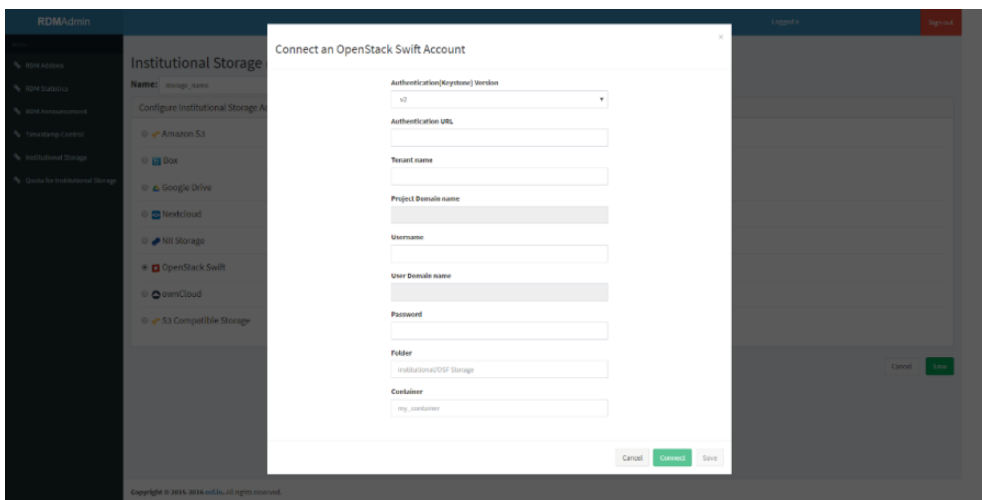
If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button.

\* If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.



③The input screen for authentication and settings information will be displayed. Fill out each form according to the following and click the 'Connect' button to perform a connection test.

\* Please note that the 'Connect' button will be inactive until all the items required for connection are entered.



#### ■ Items required for authentication to OpenStack Swift

Item	Input Type	Contents
Authentication (Keystone) Version	dropdown	OpenStack Swift version
Authentication URL	text input	OpenStack Swift authentication URL
Tenant name	text input	Target tenant name
Project Domain name	text input	Target project domain name
Username	text input	Target account username (email address)
User Domain name	text input	Target user domain name
Password	text input	Target account password
Container	text input	Target container name

If the connection test is successful, 'Credentials are valid' will be displayed. Then, proceed to step ④.

If the connection test fails, 'Unable to list containers. Listing containers is required permission.' will be displayed.

Please correct the error and click the 'Connect' button again.

④Click the 'Save' button to save the institutional storage settings.

The screenshot shows the 'Connect an OpenStack Swift Account' dialog box in the RDMAdmin interface. The dialog has the following fields: 'Authentication (Keystone) Version' (dropdown menu showing 'v3'), 'Authentication URL' (text input with 'https://demo/1.0'), 'Tenant name' (text input with 'GRCM'), 'Project Domain name' (text input with 'default'), 'Username' (text input with 'id'), 'User Domain name' (text input with 'Default'), 'Password' (password input field), 'Folder' (text input with '/'), and 'Container' (text input field). At the bottom, there is a 'Credentials are valid' message and three buttons: 'Cancel', 'Connect', and 'Save'.

## (2)Selecting Nextcloud as institutional storage

①On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select Nextcloud, and click the 'Save' button.

The screenshot shows the 'Institutional Storage' screen in the RDMAdmin interface. The 'Name' field is set to 'storage\_name'. The 'Configure Institutional Storage Accounts' section lists several storage providers: Amazon S3, Box, Google Drive, Nextcloud (selected), Nifi Storage, OpenStack Swift, ownCloud, and S3 Compatible Storage. At the bottom right, there are 'Cancel' and 'Save' buttons.

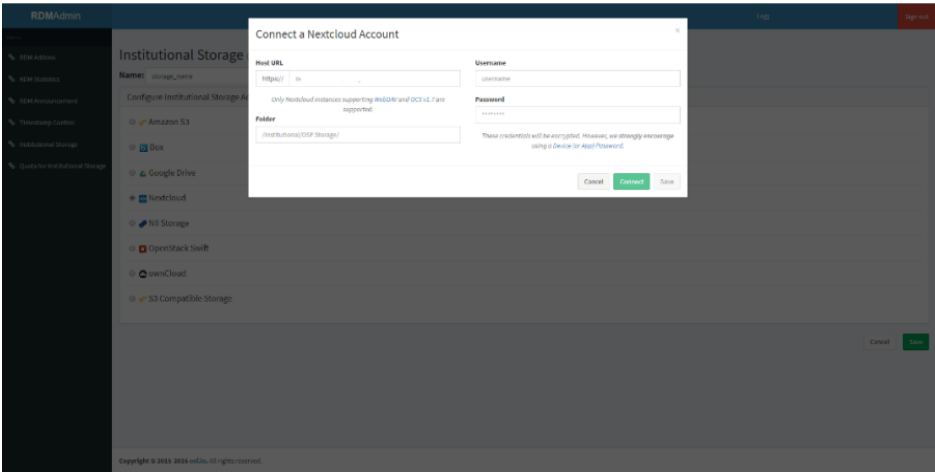
②A confirmation screen will be displayed for changing the institutional storage.

If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button.

If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.

The screenshot shows the 'Institutional Storage' screen in the RDMAdmin interface. A confirmation dialog box is displayed in the foreground with the title 'Are you sure you want to change institutional storage?'. The dialog contains the text: 'The previous storage will no longer be available to all contributors on the project. Type the following to continue: **ffadff**'. There are 'Cancel' and 'Change' buttons at the bottom of the dialog. The background shows the 'Institutional Storage' screen with 'Nextcloud' selected.

③The input screen for authentication and settings information will be displayed. Fill out each form according to the following and click the 'Connect' button to perform a connection test.  
Please note that the 'Connect' button will be inactive until all the items required for connection are entered.

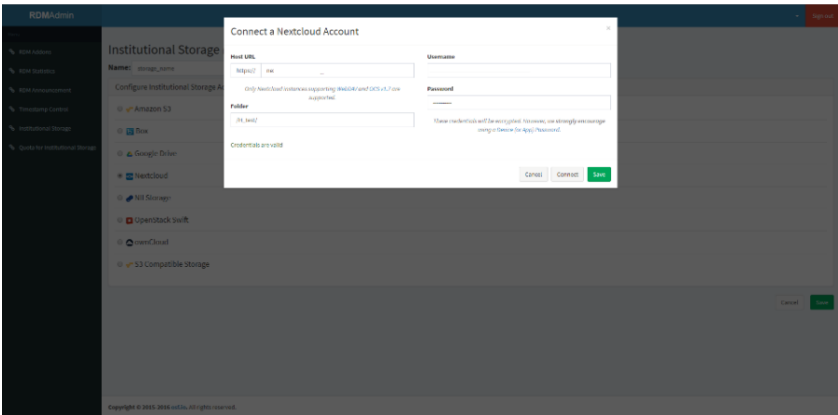


■ Items required for authentication to Nextcloud

Item	Input Type	Contents
Host URL	text input	URL to connect to (including schema)
Username	text input	Target account username
Password	text input	Target account password
Folder	text input	Path to the folder to be used

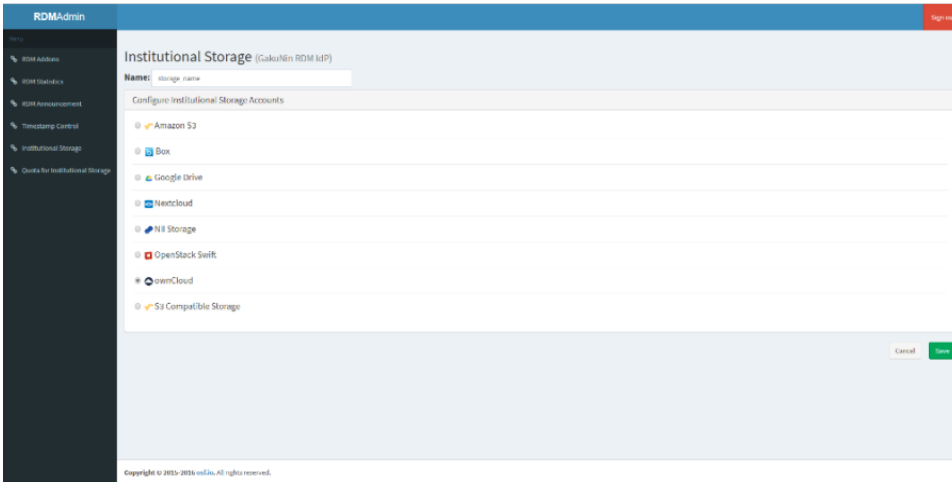
If the connection test fails, the error content will be displayed. Correct the error and click the 'Connect' button again.  
If the connection test is successful, 'Credentials are valid' will be displayed. Then, proceed to step ④.

④Click the 'Save' button to save the institutional storage settings.



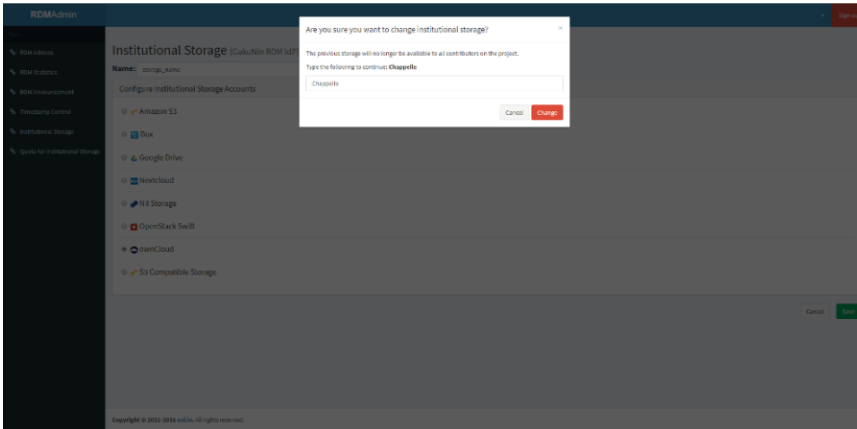
(3)Selecting ownCloud as institutional storage

①On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select ownCloud, and click the 'Save' button.

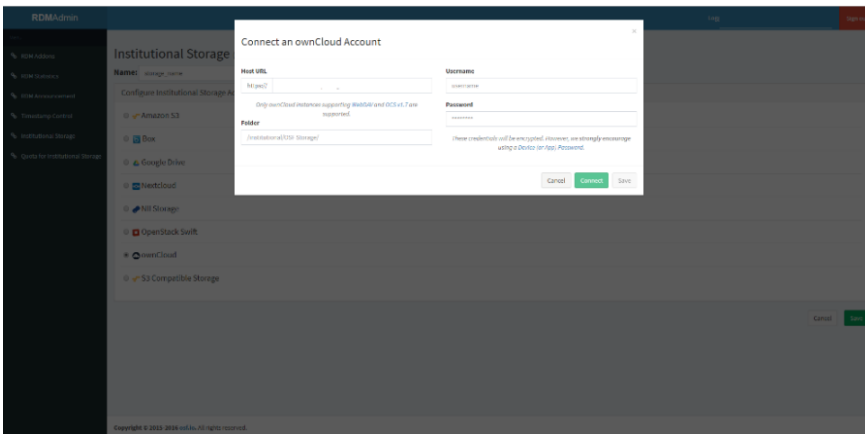


②A confirmation screen will be displayed for changing the institutional storage.

If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button. If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.



③The input screen for authentication and settings information will be displayed. Fill out each form according to the following and click the 'Connect' button to perform a connection test. Please note that the 'Connect' button will be inactive until all the items required for connection are entered.



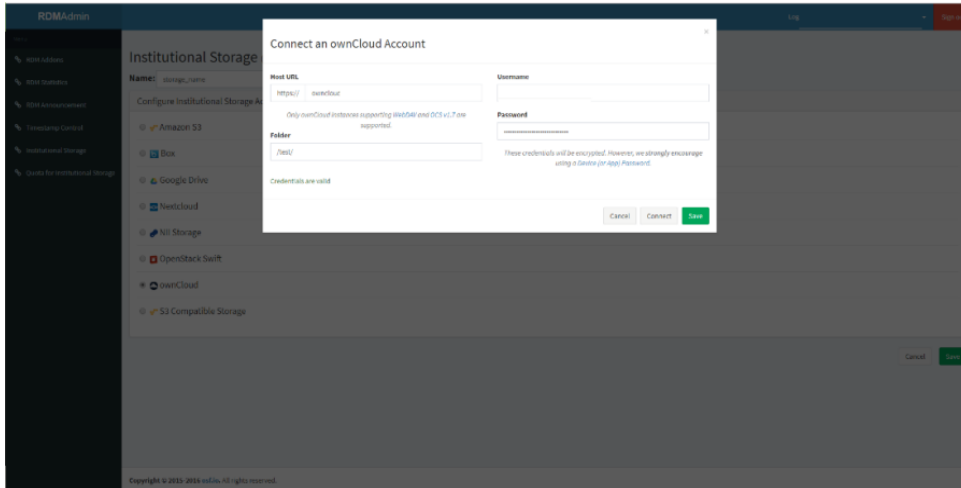
■ Items required for authentication to ownCloud

Item	Input Type	Contents
Host URL	text input	URL to connect to (including schema)
Username	text input	Target account username

<b>Password</b>	text input	Target account password
<b>Folder</b>	text input	Path to the folder to be used

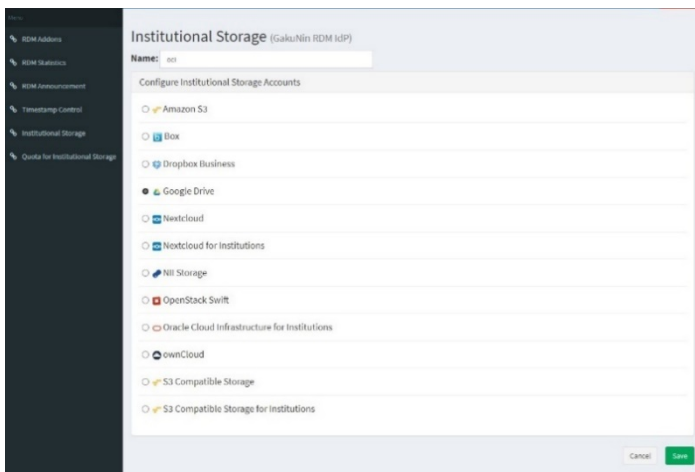
If the connection test is successful, ‘Credentials are valid’ will be displayed. Then, proceed to step ④.  
If the connection test fails, the error content will be displayed. Correct the error and click the ‘Connect’ button again.

Click the 'Save' button to save the institutional storage settings.

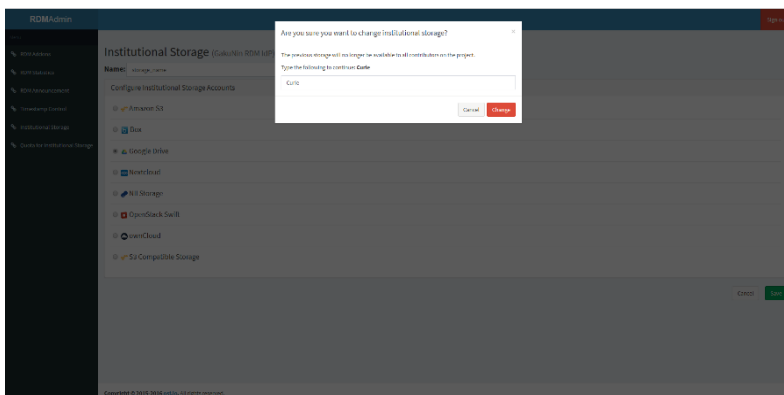


#### (4) Selecting Google Drive as institutional storage

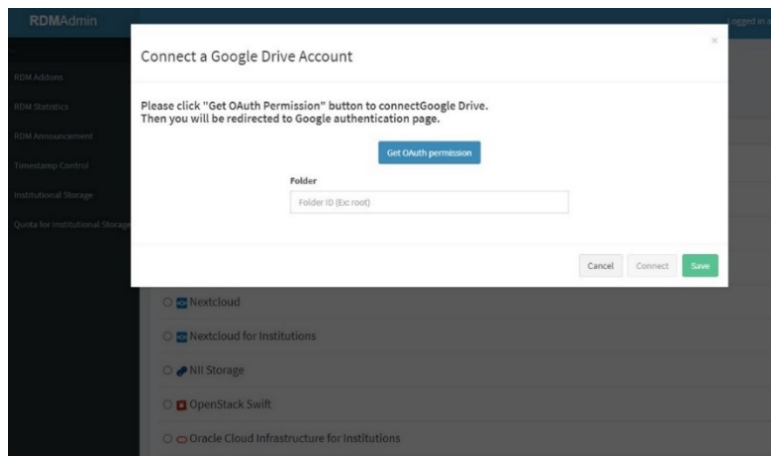
① On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select Google Drive, and click the 'Save' button.



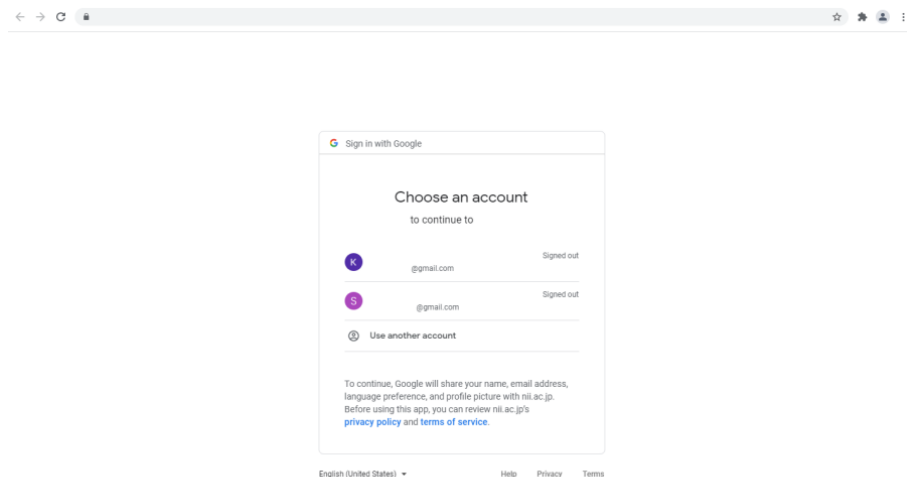
② A confirmation screen will be displayed for changing the institutional storage.  
If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button.  
If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.



③The input screen for authentication and settings information will be displayed.  
To get the authentication information, click the 'Get OAuth permission' button.



④Select the target Google account on the account selection screen.



⑤Click 'Allow' on the access granting screen.



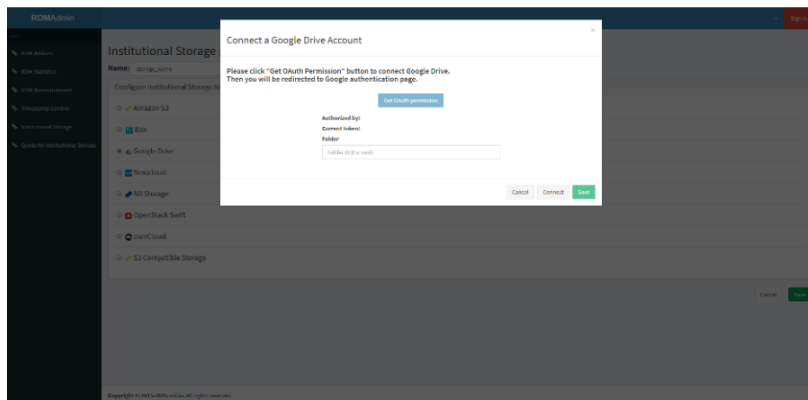
⑥A confirmation screen for your selection will be displayed. Check if 'View, edit, create, and delete all files in Google Drive' is selected, and then click 'Allow'.



⑦If the following page is displayed, the authentication is successful. (Authentication is completed at this point. Click the 'Close' button to close this page.)

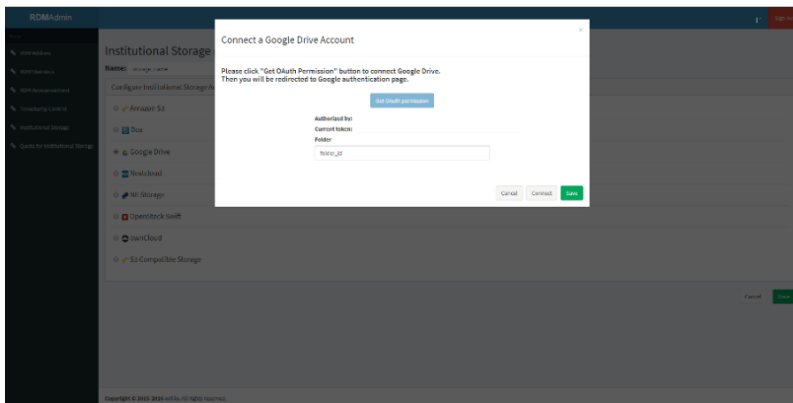


⑧Return to the 'Institutional Storage' tab. Check that OAuth authentication is successful and that the authenticated username and authentication token are displayed.

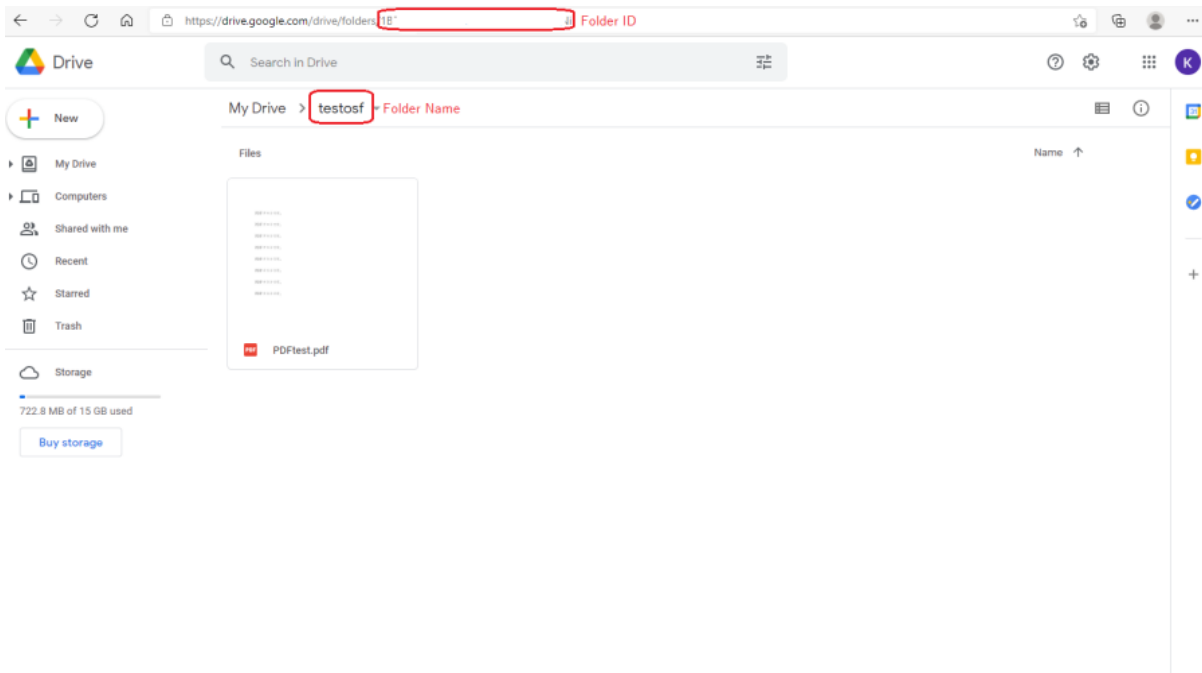


⑨Enter the target folder ID in the 'Folder' input form.





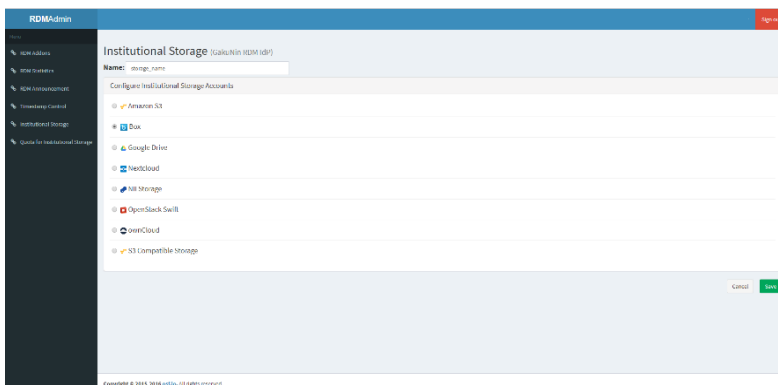
\* Please note that the folder ID is a character string included in the URL of the folder, not the folder name.



⑩Click the 'Save' button to save the institutional storage settings.

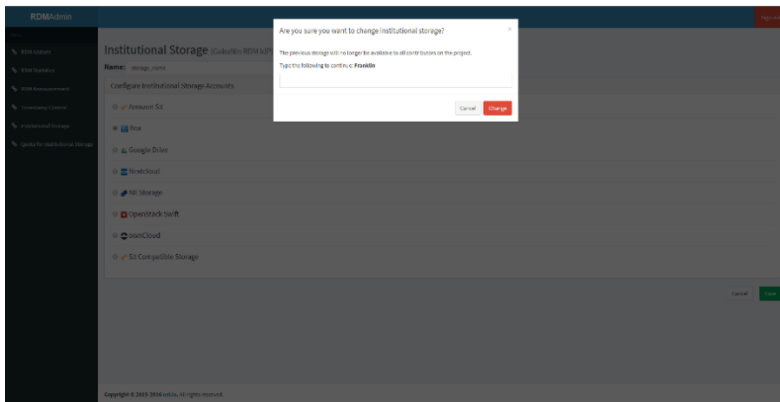
## (5)Selecting Box as institutional storage

①On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select Box, and click the 'Save' button.



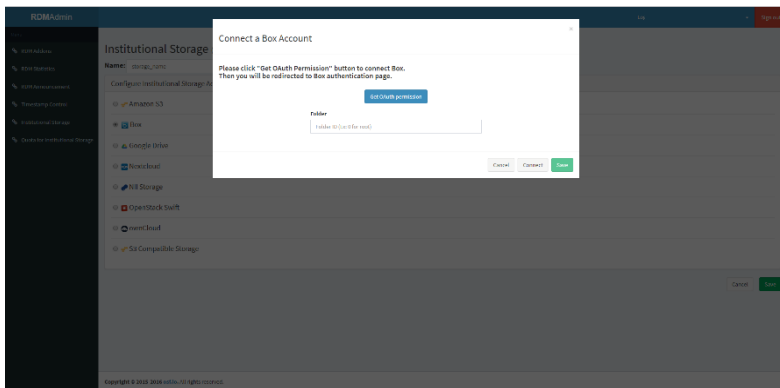
②A confirmation screen will be displayed for changing the institutional storage.

If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button.  
If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.

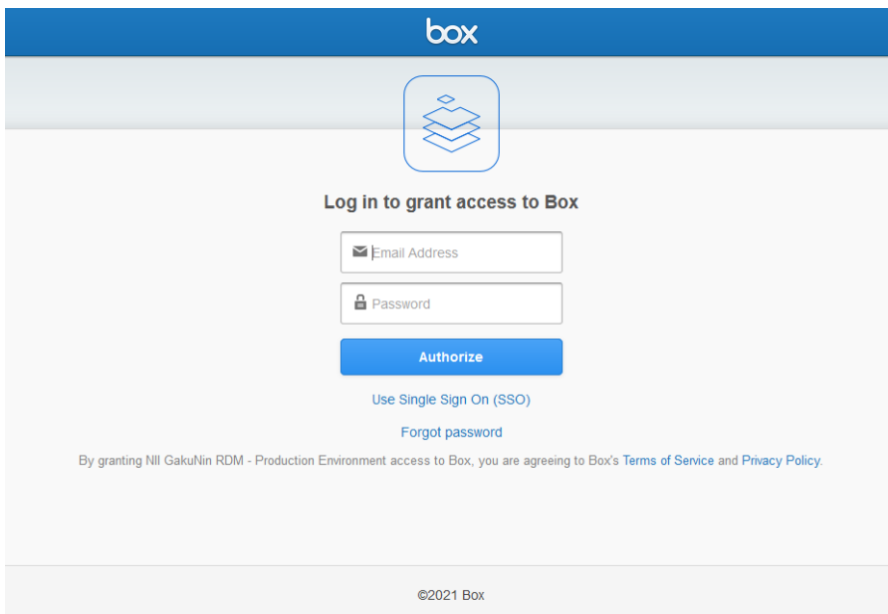


③The input screen for authentication and settings information will be displayed.

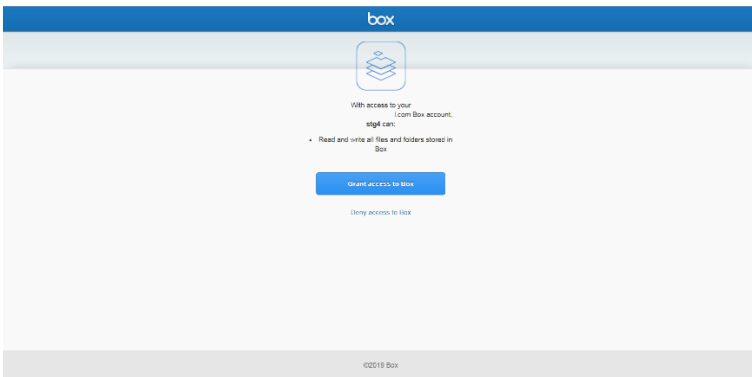
To get the authentication information, click the 'Get OAuth permission' button.



④On the login screen, enter the email address and password of the target account and press 'Authorize'.



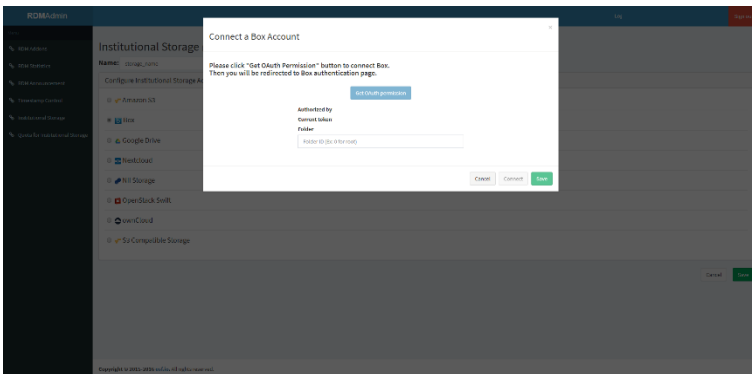
⑤Click 'Grant access to Box' on the access granting screen.



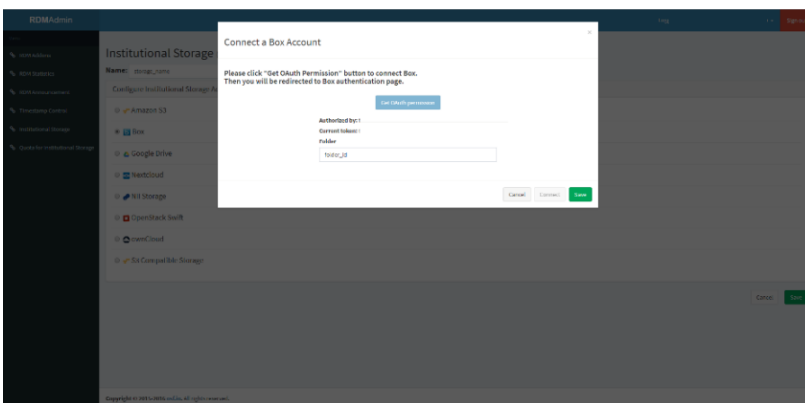
⑥ If the following page is displayed, the authentication is successful. (Authentication is completed at this point. Click the 'Close' button to close this page.)



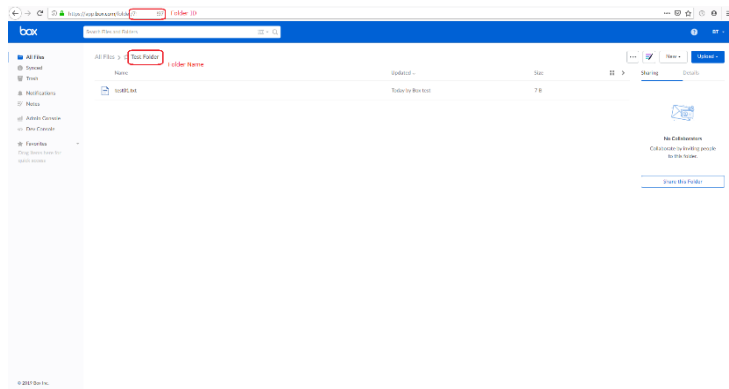
⑦ Return to the 'Institutional Storage' tab. Check that OAuth authentication is successful and that the authenticated username and authentication token are displayed.



⑧ Enter the target folder ID in the 'Folder' input form.



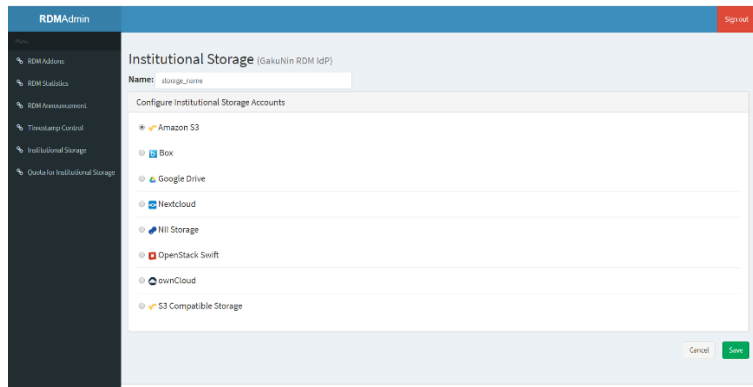
\* Please note that the folder ID is a character string included in the URL of the folder, not the folder name.



⑨Click the 'Save' button to save the institutional storage settings.

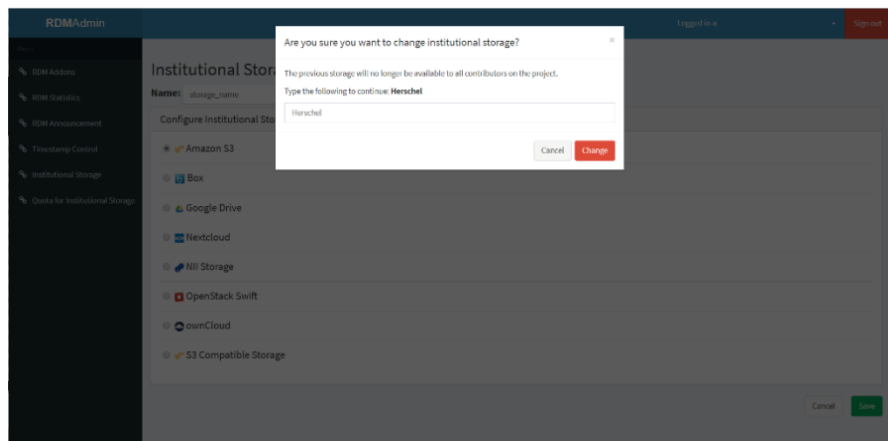
### (6)Selecting Amazon S3 as institutional storage

①On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select Amazon S3, and click the 'Save' button.



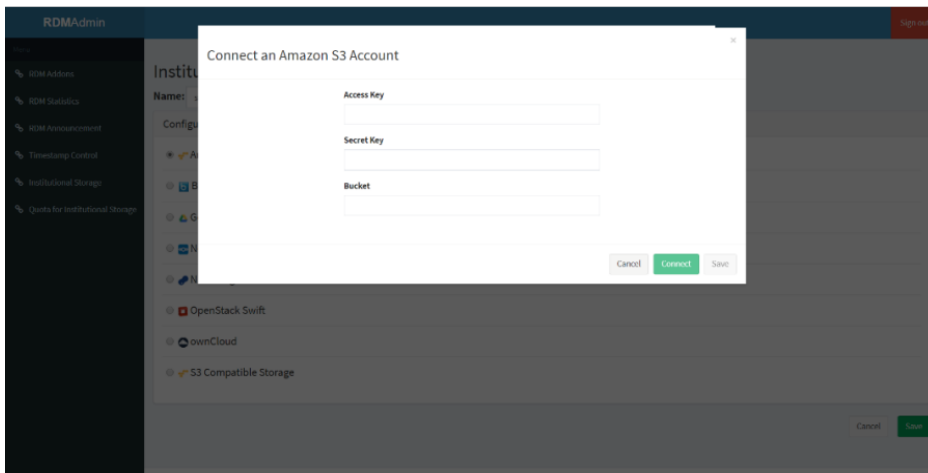
②A confirmation screen will be displayed for changing the institutional storage.

If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button.  
If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.



③The input screen for authentication and settings information will be displayed. Fill out each form according to the following and click the 'Connect' button to perform a connection test.

Please note that the 'Connect' button will be inactive until all the items required for connection are entered.

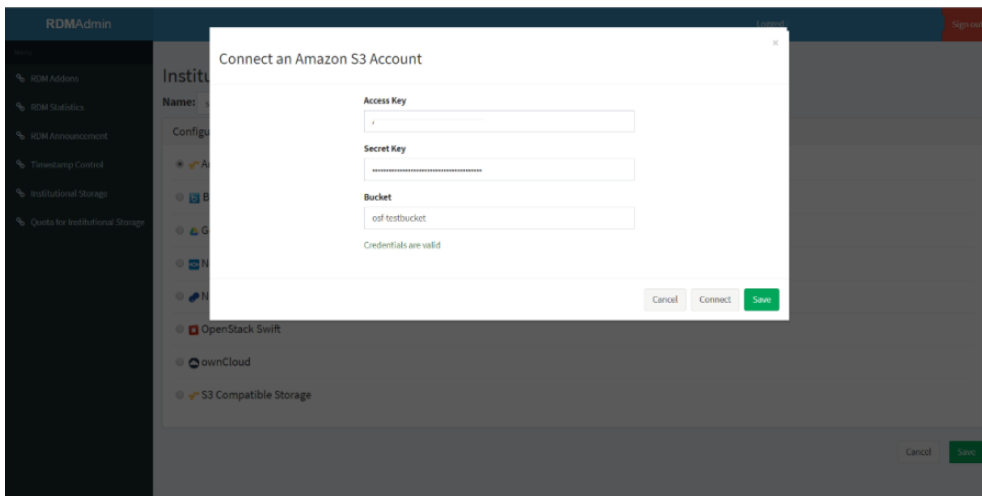


#### ■ Items required for authentication to Amazon S3

Item	Input Type	Contents
<b>Access Key</b>	text input	S3 Access Key
<b>Secret Key</b>	text input	S3 Secret Key
<b>Bucket</b>	text input	Target Bucket Name

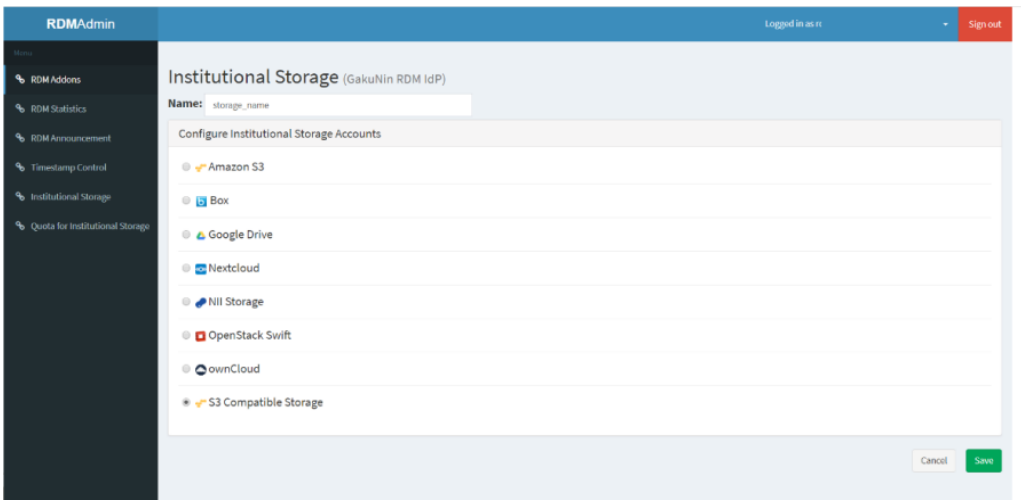
If the connection test fails, the error content will be displayed. Correct the error and click the 'Connect' button again.  
If the connection test is successful, 'Credentials are valid' will be displayed. Then, proceed to step ④.

⑤Click the 'Save' button to save the institutional storage settings.



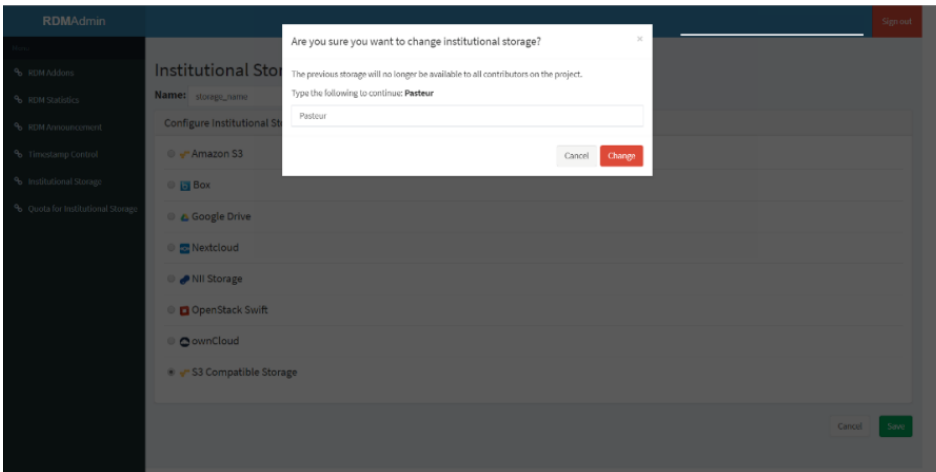
#### (7)Selecting S3 Compatible Storage as institutional storage

①On the 'Institutional Storage' screen, enter an arbitrary storage name in the 'Name' form, select S3 Compatible Storage, and click the 'Save' button.



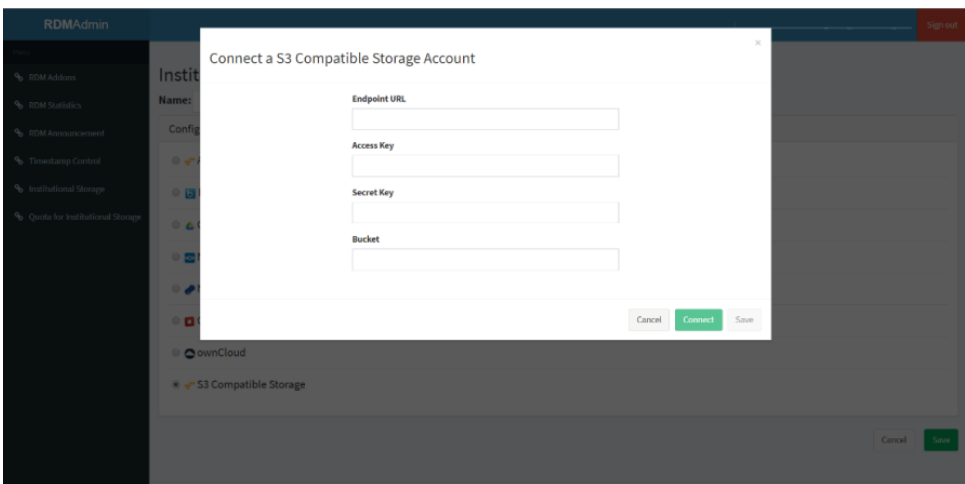
②A confirmation screen will be displayed for changing the institutional storage.

If you agree to the change, enter the character string after 'Type the following to continue:' in the form and click the 'Change' button.  
If you do not agree with the change, you can return to the previous screen by clicking the 'Cancel' button.



③The input screen for authentication and settings information will be displayed. Fill out each form according to the following and click the 'Connect' button to perform a connection test.

\* Please note that the 'Connect' button will be inactive until all the items required for connection are entered.



■ Items required for authentication to S3 Compatible Storage

Item	Input Type	Contents
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