



# IT Automation

# BASE Practice

※Exastro IT Automation is written as “ITA” in this document.

Exastro IT Automation Version 1.8  
Exastro developer

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# 1. Introduction



# 1.1 Document overview

## About this document

This document will have the reader go through a couple of sample scenarios in order to learn more about the Role based access restriction function.

Scenario 1 will have to user experience RBAC for Menus.

Scenario 2 will have the user experience RBAC for data records.



## 2. Scenario 1



# 2.1 Operation environment

## Environment

The following is required in order to finish this document's scenarios.

You will need 1 server.

### Client device

- Windows10
- Google Chrome



### ITA server

- CentOS7 (※1)
- ITA 1.8.0
- Ansible 2.11

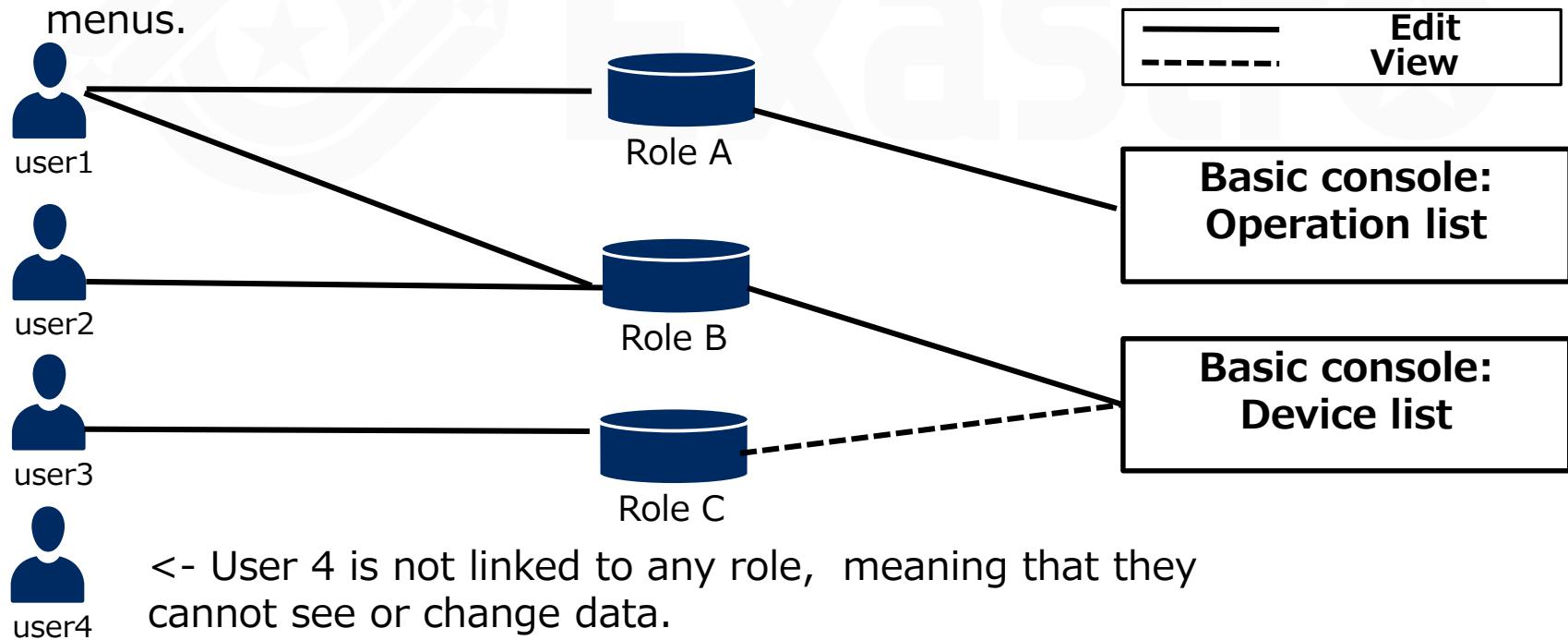
※1 In this scenario, the host server will be running CentOS7. However, ITA can be implemented to any RHEL7 or RHEL8 type OS.

## 2.2 RBAC for Menus scenario (1/2)

### Scenario

This scenario will have the reader use the Management console -> Menu link list function to control RBAC for different menus.

- ① User 1 is linked to Role A and Role B, meaning that they can edit contents in both the “Operation list” and the “Device list”.
- ② User 2 is linked to Role B, meaning that they can edit in “Device list”.
- ③ User 3 is linked to Role C, meaning that they can view in the “Device list”.
- ④ User 4 is not linked to any role, meaning that they cannot view any of the menus.



## 2.2 RBAC for Menus Scenario (2/2)

### Scenario procedure

2.3 Create and register new users



2.4 Create and register roles



2.5 Link roles and menus



2.6 Link roles and users



2.7 Register data in the “Device list”  
and “Operation list” menus.



2.8 Check RBAC

## 2.3 Create and Register new users

### Create and register new users

In order to check the different access permissions, we will create 4 different users.

Menu: **Management console > User list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

Exastro IT Automation Management Console

User name [System Administrator] Login ID [Administrator] Change password Logout

Description ▽ Open

Display filter

List/Update

**Register**

User ID Login ID\* Login Password\* User name\* Mail address

Auto-input

※ \* is a required item.

Back Register

Login ID	Login PW	User name
user1	(Free field)	Test1
user2	(Free field)	Test2
user3	(Free field)	Test3
user4	(Free field)	Test4

Download all and edit file uploads ▽ Open

Role information ▽ Open

Trace history ▽ Open

Contact administrator

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Device/Operation list

Check access permission

# 2.4 Create and register roles

## Create and register roles

Create and register the roles that controls user access

Menu: **Management console> Role list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Management Console interface. On the left, there is a vertical navigation menu with various options like Main menu, System settings, etc. A red box highlights the "Role list" option under the "Menu" section. To its right, a secondary navigation menu has "Register" highlighted with a red box. The main content area displays a table titled "Role name" with three rows: "Role A", "Role B", and "Role C". Below the table, there is a form with a red border containing fields for "Role name" (set to "Auto-input") and "Setting" (set to "Setting"). A note at the bottom says "※ \* is a required item." At the bottom of this form, two buttons are shown: "Back" and "Register", with "Register" also highlighted by a red box. The background of the main content area shows other management options like "User information", "Menu information", and "Trace history".

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Device/Operation list

Check access permission

# 2.5 Role · Menu link

## Link Role and menus

Link menus to the different roles and select permission type

Menu: **Management console> Role · Menu link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Management Console interface. On the left, a sidebar menu includes items like Main menu, System settings, and Role list. The 'Role · User link list' item is highlighted with a red box and a circled '1'. The main content area shows a registration form for a new role. A circled '2' points to the 'Menu group:' dropdown. To the right, a table lists three roles with their associated menu groups and permissions:

Role name	Menu group: Menu	Associate
Role A	Basic console: Operation list	Edit
Role B	Basic console: Device list	Edit
Role C	Basic console: Device list	View

At the top right, there are links for creating users and roles, and for linking roles and menus. The 'Link Roles and Menus' link is highlighted with a red box.

# 2.6 Role • User link

## Link Role and user information

Link a roles to the different users

Menu: **Management console> Role • User link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Management Console interface. The left sidebar contains a navigation menu with items like Main menu, System settings, Menu group list, Menu list, Role list, User list, Role • Menu link list, Role • User link list (which is highlighted with a red box), File delete list, Sequence list, Single-sign-on Basic Preference, and Single-sign-on Attribute Reference. The main content area is titled 'Management Console' and shows a registration form for 'Role • User link list'. The form has fields for 'Item No.', 'Role (ID name)\*', 'User ID: Login ID\*', and 'Default access permission'. A note at the bottom says '※ \* is a required item.' Below the form are 'Back' and 'Register' buttons. At the top right, there are links for 'Change password' and 'Logout'.

Create and register new users

Create and register Roles

Link Roles and Menus

**Link Roles and Users**

Register Device/Operation list

Check access permission

Role name	User ID	Default access permission
Role A	user1	●
Role B	user1	●
Role B	user2	●
Role C	user3	●

Point

Selecting "●" for "Default access permission" will make the registered access permission default to the role when registering new data.

## 2.7 Device list/Operation list registration(1/2)

### Register new data in the Device list menu.

The following must be done while logged in as Administrator.

Register a new item in the Device list.

This allows us to check the access permissions for the different users.

Do not set access permission roles in this step.

Menu: **Basic console > Device list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

User name [System Administrator]  
Login ID [administrator]  
Change password Logout

HW device type	Host name	IP address
SV	(Free host name)	(Free IP address)

2

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

**Register Device/Operation list**

Check access permission

## 2.7 Device list/Operation list registration(2/2)

### Register new operation

The following must be done while logged in as Administrator.

Create a new operation.

This allows us to check the access permissions for the different users.

Do not set access permission roles in this step.

Menu: **Basic console > Operation list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Basic Console interface. The left sidebar has a 'Menu' section with various options like Main menu, Device list, and Operation list (which is highlighted with a red box). The main content area has a 'Basic Console' header. Below it, there's a 'Description' section with 'Display filter', 'List/Update', and a 'Register' section. The 'Register' section contains a table with columns: No., Operation ID, Operation name\*, Scheduled date for execution, Access p., Setting, Role, and a 'Setting' button. A note says '\* is a required item.' Below the table are 'Back' and 'Register' buttons. At the bottom, there are links for 'Download all and edit file uploads' and 'Trace history'. In the top right, there's a user info box with 'User name: [System Administrator]' and 'Login ID: [administrator]'. A red callout box highlights the 'Operation name' and 'Scheduled execution date' columns in a table below the registration form. A red circle with the number '2' points to this table. The table has two rows: one for OP1 with '(Free field)' in the scheduled date column, and one for OP2 with '(Free field)' in the scheduled date column.

Operation name	Scheduled execution date
OP1	(Free field)
OP2	(Free field)

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

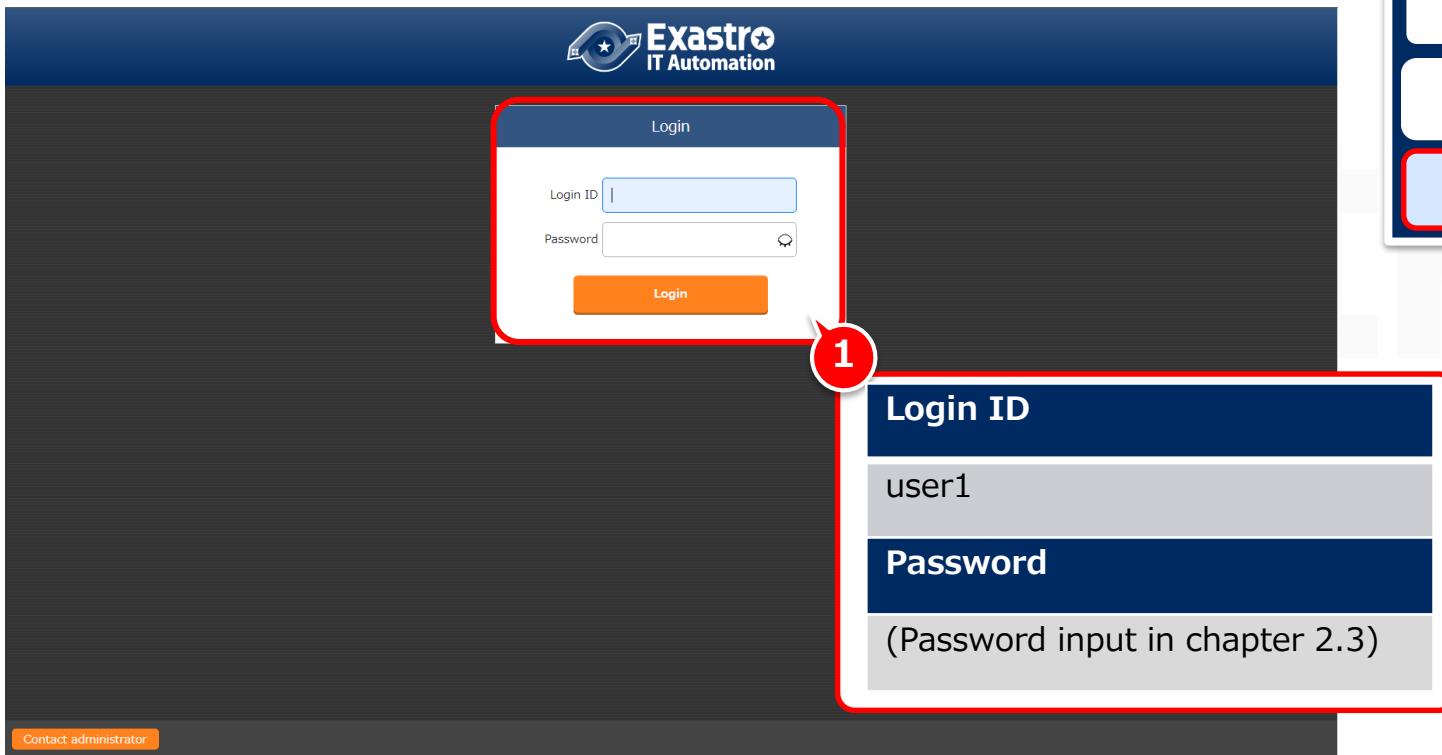
**Register Device/Operation list**

Check access permission

## 2.8 Check access permission(1/9)

### Change account

Log out from the Admin account and log in as the different users we created earlier in chapter 2.3



Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Device/Operation list

Check access permission

## 2.8 Check access permission(2/9)

### Configure new password

Users will be asked to create a new password when logging in for the first time.

Log in and create a new password for all the users.

The screenshot shows the Exastro IT Automation interface. At the top, there is a navigation bar with several items: 'Create and register new users', 'Create and register Roles', 'Link Roles and Menus', 'Link Roles and Users', 'Register Device/Operation list', and 'Check access permission'. The 'Check access permission' item is highlighted with a red box and a red circled number '2' pointing to it. Below the navigation bar, there is a 'Change password' dialog box. This dialog has a 'Login ID' field set to 'user1'. It contains three input fields: 'Old password', 'New password', and 'New password (re-enter)'. There are two buttons at the bottom: an orange 'Change' button and a grey 'Back' button. To the right of the dialog, there is a table with four rows. The first row is labeled 'Login ID' and contains the value 'user1'. The second row is labeled 'Old password' with the note '(Password input in chapter 2.3)'. The third row is labeled 'New password' with the note '(Free value)'. The fourth row is labeled 'New password (re-enter)' with the note '(Free value)'. The entire table is also enclosed in a red box.

<b>Login ID</b>	user1
<b>Old password</b>	(Password input in chapter 2.3)
<b>New password</b>	(Free value)
<b>New password (re-enter)</b>	(Free value)

## 2.8 Check access permission(3/9)

### Check User 1's access permissions

Log in as User 1 and check the access permissions

- ① Check that the Login ID is “user1” and the Login user is “Test1” in the upper right corner.
- ② Menu: Basic console > Operation list
- ③ Display filter > Press “Filter”
- ④ Check that both OP1 and OP2 are displayed and that you can edit them

The screenshot shows the Exastro Basic Console interface. At the top right, there is a user info box with "User name [Test1]" and "Login ID [user1]". Below it are "Change password" and "Logout" buttons. A red box labeled "1" highlights this area. On the left, a sidebar has a red box around the "Operation list" menu item, labeled "2". In the center, a "Display filter" dialog is open, with a red box around its "Filter" button, labeled "3". At the bottom, a "List/Update" dialog shows a table of operations. A red box highlights the first two rows of the table, labeled "4". The table columns include History, Duplicate, Update, Discard, No., Operation ID, Operation name, and Scheduled date for execution. The first row contains "History", "Duplicate", "Update", "Discard", "5", "5 OP1", and "2021/12/08 19:00". The second row contains "History", "Duplicate", "Update", "Discard", "6", "6 OP2", and "2021/12/09 15:10". A callout box with a red border points to the second row, containing the text: "Users with 'Can maintain' displayed in the link settings are able to edit. (See more information on slide 20.)".

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Device/Operation list

Check access permission

## 2.8 Check access permission(4/9)

### Check User 1's access permissions

Menu: Basic console > Device list

- ① Display filter > Press "Filter"
- ② Check that the device list is displayed and that you can edit it

The screenshot shows the Exastro Basic Console interface. On the left, there is a vertical navigation bar with options: Menu, Main menu, Device list, and Operation list. The main area is titled 'Basic Console'. A top navigation bar includes 'User name: Test', 'Login ID: user', 'Change password', and 'Logout'. A 'Display filter' dialog is open, showing various search fields and a 'Filter' button highlighted with a red circle labeled '1'. Below the filter dialog, the 'List/Update' tab is selected, indicated by a red callout with a red circle labeled '2'. A single device entry is listed in a table with columns: History, Duplicate, Update, Discard, Managed system item number, HW device type, Host name, IP address, Power ON, MAC address, Last update date/time, and Last updated by. Each column has an edit icon (pencil) at the end. A red box highlights the entire table row. At the bottom of the 'List/Update' section, there is a 'Filter result count: 1' message and an 'Output Excel' button.



## 2.8 Check access permission(5/9)

### Check User 2's access permissions

Log in as User 2 and check the access permissions

- ① Check that the Login ID is “user2” and the Login user is “Test2” in the upper right corner.
- ② Menu: Basic console > Device list
- ③ Display filter > Press “Filter”
- ④ Check that you can edit in the device list.

The screenshot shows the Exastro Basic Console interface. At the top, there is a navigation bar with the Exastro logo, the title "Basic Console", and a "Main menu" button. A red box labeled "2" highlights the "Device list" button in the main menu. In the center, there is a "Display filter" dialog box with several search fields and a red circle labeled "3" pointing to the "Filter" button. Above the filter dialog, a red box labeled "1" points to the user information in the top right corner, which includes "User name [test2]", "Login ID [user2]", "Change password", and "Logout". Below the filter dialog, there is a "List/Update" table with columns for History, Duplicate, Update, Discard, Managed system item number, HW device type, Host name, IP address, MAC, Last update date/time, and Last updated by. A red box labeled "4" points to the "History" button in the table header. A red box at the bottom left of the table area points to the "Output Excel" button. A callout box at the bottom right contains the text: "Users with 'Can maintain' displayed in the link settings are able to edit. (See more information on slide 20.)".

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Device/Operation list

Check access permission

## 2.8 Check access permission(6/9)

### “Can maintain” access permission settings

If the link settings says "Can maintain",  
the user will have access to the different edit functions.

The screenshot shows a software interface with a sidebar menu on the left. The main area has two tabs: 'List/Update' and 'Register'. The 'List/Update' tab is active, displaying a table with columns for History, Duplicate, Update, Discard, Managed system item number, HW device type, Host name, IP address, EtherWake, Power ON, MAC address, Last update date/time, and Last updated by. A red box highlights the top part of this table. Below the table, there is a 'Filter result count: 1' message and an 'Output Excel' button. The 'Register' tab is shown below, with a red box highlighting the 'Upload file' button. Other buttons in the 'Register' section include 'Download all', 'Download all (Excel)', 'Download for new registration (Excel)', and 'Choose File'.

Point

If the user has “Can maintain” permissions,  
functions such as “Update”, “Register”, “Upload file”  
and others will be available.

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Device/Operation list

Check access permission

## 2.8 Check access permission(7/9)

### Check User 3's access permissions

Log in as User 3 and check the access permissions

- ① Check that the Login ID is user3 and the Login user is "Test3" in the upper right corner
- ② Menu: Basic console > Device list
- ③ Display filter > Press "Filter"
- ④ Check that the user can view ,but not edit contents.

The user will not be able to edit contents if the permission settings is set to "View only".  
(See Slide 22)

- Create and register new users
- Create and register Roles
- Link Roles and Menus
- Link Roles and Users
- Register Device/Operation list
- Check access permission

## 2.8 Check access permission(8/9)

### “View Only” access permission settings

If the permission settings set to the link is set to “View only”, the user will not be able to edit the contents.

The screenshot shows the Exastro Basic Console interface. On the left is a sidebar with 'Exastro IT Automation' logo, 'Basic Console' title, 'Menu' (Main menu, Device list), and 'Contact administrator'. The main area has tabs 'Description', 'Display filter', and 'List'. The 'List' tab is active, showing a table with columns: History, Managed system item number, HW device type, Host name, IP address, EtherWakeOnLan, MAC address, Network device name, Login user ID, Management, Login password, Last update date/time, and Last updated by. A single row of data is present: History, 4, SV, LearnTest, 123.123.123.123, EtherWakeOnLan, MAC address, Network device name, Login user ID, Management, \*\*\*\*\* (redacted), 2021/12/07 18:55:12, System Administrator. The entire table is highlighted with a red border. Below the table is a 'Filter result count: 1' message and an 'Output Excel' button. To the right of the table is a 'Download all' section with 'Download all' and 'Download all (Excel)' buttons. At the bottom are 'Trace history' and 'Download all (Excel)' buttons. In the top right corner of the main area, there are links for 'Change password' and 'Logout'. The top right corner of the slide has a blue bar with white text: 'Create and register new users', 'Create and register Roles', 'Link Roles and Menus', 'Link Roles and Users', 'Register Device/Operation list', and a red box containing 'Check access permission'.

Point

Edit functions such as “Edit,” “Abolish” and “Restore” will not be available for users with “View only” permission.

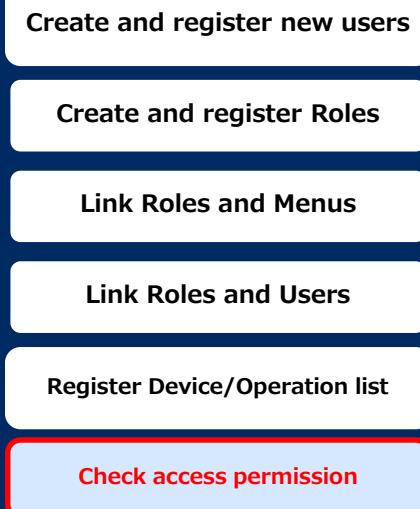
## 2.8 Check access permission(9/9)

### Check user 4's access permissions

Log in as User 4 and check the access permissions

- ① Login ID: Log in as user4
- ② Check that the Login ID is user4 and the Login user says "Test4" in the upper right corner
- ③ As this user does not have permission to anything, they should not be able to see anything.

The screenshot shows the Exastro IT Automation dashboard. At the top, there is a header bar with the Exastro logo, a menu icon, and a 'DASHBOARD' button. Below the header, the main menu section displays a message: 'There are no "Menu group" that can be displayed.' To the right of this are three circular status dashboards: 'Movement' (0 Total), 'Work status' (0 Total), and 'Work result' (0 Total). Each dashboard has a corresponding table below it showing various metrics. At the bottom of the dashboard area, there is a 'Work history' section with a table and a 'Contact administrator' button at the very bottom.



### 3. Scenario 2



# 3.1 Operation Environment

## Operation Environment

The following is required in order to finish this document's scenarios.

You will need 1 server.

### Client Device

- Windows10
- Google Chrome



### ITA Server

- CentOS7 (※1)
- ITA 1.8.0
- Ansible 2.11

※1 In this scenario, the host server will be running CentOS7. However, ITA can be implemented to any RHEL7 or RHEL8 type OS.

# 3.2 RBAC for Data records(1/3)

## Scenario 1

In this scenario, we will give the different roles access permission for all the different data records. That way, the reader can experience the RBAC for Data records function.

- ① user1, who is linked to Role A, B and C, will be able to see Move1~4
- ② user2, who is linked to Role B, will be able to see Move1~3
- ③ user3, who is linked to Role B and Role C, will be able to see Move 1,3 and 4

**■ User name : System administrator**  
**Login ID: administrator**  
**Role : System administrator**

履歴	横表	更新	廃止	MovementID	Movement名	オーケストレータ	遅延タイマー	Ansible利用情報				Movement-Playbook紐付	アクセス権	備考	最終更新日時	最終更新者
								ホスト指定形式	WinRM接続	ヘッダーセクション	オプションパラメータ		アクセス許可ロール			
履歴	横表	更新	廃止	6	move1	Ansible Legacy	IP					Movement-Playbook紐付	○-ルA, ○-ルB		2021/08/23 10:23:04	システム管理者
履歴	横表	更新	廃止	7	move2	Ansible Legacy	IP					Movement-Playbook紐付	○-ルA		2021/08/23 10:29:47	システム管理者
履歴	横表	更新	廃止	10	move3	Ansible Legacy	IP					Movement-Playbook紐付	○-ルB		2021/08/23 10:23:46	システム管理者
履歴	横表	更新	廃止	11	move4	Ansible Legacy	IP					Movement-Playbook紐付	○-ルC		2021/08/23 10:23:52	システム管理者

ようこそ[システム管理者]さん  
ログインID [administrator]  
[パスワード変更](#) [ログアウト](#)



**■ User name : Test2**  
**Login ID: user2**  
**Role : Role B**

履歴	横表	更新	廃止	MovementID	Movement名	オーケストレータ	遅延タイマー	Ansible利用情報				Movement-Playbook紐付	アクセス権	備考	最終更新日時	最終更新者
								ホスト指定形式	WinRM接続	ヘッダーセクション	オプションパラメータ		アクセス許可ロール			
履歴	横表	更新	廃止	6	move1	Ansible Legacy	IP					Movement-Playbook紐付	******(5), ○-ルB		2021/08/23 10:23:04	システム管理者
履歴	横表	更新	廃止	10	move3	Ansible Legacy	IP					Movement-Playbook紐付	○-ルB		2021/08/23 10:23:46	システム管理者

ようこそ[アテスト用]さん  
ログインID [user2]  
[パスワード変更](#) [ログアウト](#)

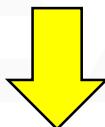
## 3.2 RBAC for Data records(2/3)

### Scenario 2(Figure)

Role and User link

	Role A	Role B	Role C
user1	●	○	○
user2		●	
user3		●	●

- …With Default access permission
- …Without Default access permission



Access permission per Movement

	move1	move2	move3	move4
Role A	●	●		
Role B	●		●	
Role C				●

- …Has access

What Movement can be seen by which user

	move1	move2	move3	move4
user1	●	●	●	●
user2	●		●	
user3	●		●	●

- …Movement displayed

## 3.2 RBAC for Data records(3/3)

### Scenario Procedure

※Users who have completed Scenario 1 can start from chapter 3.5

**3.3 Create and register new users**



**3.4 Create and register roles**



**3.5 Role · Menu link**



**3.6 Role · User link**



**3.7 Movement list registration**



**3.8 Check access permission**

# 3.3 Create and register new users

## Create and register new users

In order to check the different access permissions, we will create 3 different users.

Menu: **Management console > User list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Management Console interface. On the left, a vertical navigation menu lists various options like Main menu, System settings, and User list, with 'User list' currently selected and highlighted by a red box. Number 1 in a red circle points to the 'Register' button in the main content area. Number 2 in a red circle points to the 'Register' button within the registration form itself. The main content area displays a table of registered users:

Login ID	Login PW	User name
user1	(Free field)	Test1
user2	(Free field)	Test2
user3	(Free field)	Test3

At the bottom of the registration form, there is a note: "※\* is a required item." Below the registration form are 'Back' and 'Register' buttons, with the 'Register' button highlighted by a red box. The registration form includes fields for User ID, Login ID\*, Login Password\*, User name\*, and Mail address.

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Movement list

Check access permission

# 3.4 Create and register roles

## Create and register roles

Create and register the roles that controls user access

Menu: **Management console> Role list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Management Console interface. On the left, there is a sidebar with various menu items. The 'Role list' item is highlighted with a red box and has a red number '2' above it, indicating the current step. The main content area shows a table for registering new roles. The table has columns for 'Role ID' (Auto-input), 'Role name\*' (empty input field), 'Access setting' (button labeled 'Setting'), and two 'Auto-input' fields for 'Role description' and 'Role notes'. A note at the bottom says '※ \* is a required item.' Below the table are 'Back' and 'Register' buttons, with the 'Register' button also highlighted with a red box. To the right of the table, there is a preview window showing three roles: Role A, Role B, and Role C. The top right corner of the screen shows the user information: User name [System Administrator], Login ID [administrator], Change password, and Logout.

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Movement list

Check access permission

# 3.5 Role • Menu link

## Link role and Menu information

Link Menu to role and grant access permissions.

Menu: **Management console> Role • Menu link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Exastro Management Console interface. On the left, a sidebar lists various management options. The 'Role • Menu link list' option is highlighted with a red box and has a red circle with the number '2' pointing to its 'Register' button. The main content area displays a table of roles and their associations:

Role	Menu group: Menu	Link
Role A	AnsibleLegacy: Movement list	Can Maintain
Role B	AnsibleLegacy: Movement list	Can Maintain
Role C	AnsibleLegacy: Movement list	Can Maintain

Create and register new users

Create and register Roles

**Link Roles and Menus**

Link Roles and Users

Register Movement list

Check access permission

# 3.6 Role · User link(1/4)

## Link Role and User information

Link roles to the users.

Menu: **Management console> Role · User link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”(See next page)

The screenshot shows the Management Console interface. On the left, there's a sidebar with various menu items. The main area displays a table titled "Role · User link list". The table has columns for Item No., Role (ID name)\*, User ID: Login ID\*, Default access permission, Access permission Setting, Role to allow access, Last update date/time, and Last updated by. There are three rows in the table, each corresponding to a role: Role A, Role B, and Role C. All three roles have "administrator" listed under User ID: Login ID\* and "(blank)" listed under Default access permission. A red circle with the number 2 is drawn around the "Register" button located at the bottom right of the table area. The table is highlighted with a red border.

Role name	User ID: Login ID	Default access permission
Role A	administrator	(blank)
Role B	administrator	(blank)
Role C	administrator	(blank)

Create and register new users

Create and register Roles

Link Roles and Menus

**Link Roles and Users**

Register Movement list

Check access permission

# 3.6 Role · User link(2/4)

## Link Role and User information

Link roles to the users.

Menu: **Management console> Role · User link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”(See next page)

The screenshot shows the Management Console interface. On the left, there's a sidebar with various menu items. The main area is titled "Role · User link list" and contains a registration form. The registration form has fields for "Role (ID name)" (set to "Auto-input"), "User ID: Login ID" (set to "user1"), and "Default access permission" (set to a checked option). Below the form is a table with three rows:

Role name	User ID: Login ID	Default access permission
Role A	user1	●
Role B	user1	(blank)
Role C	user1	(blank)

- Create and register new users
- Create and register Roles
- Link Roles and Menus
- Link Roles and Users**
- Register Movement list
- Check access permission

# 3.6 Role · User link(3/4)

## Link Role and User information

Link roles to the users.

Menu: **Management console> Role · User link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”(See next page)

The screenshot shows the Management Console interface. On the left is a vertical menu bar with various options like Main menu, System settings, and Role list. The central area is titled "Role · User link list". It features a table with several columns: Item No., Role (ID name)\*, User ID: Login ID\*, Default access permission, Access permission Setting, Role to allow access, Last update date/time, and Last updated by. A red circle with the number 2 is overlaid on the "Role name" column of the second row, which contains "Role B" and "user2". The "Default access permission" column for this row contains a single black dot. Other rows in the table are partially visible.

Create and register new users

Create and register Roles

Link Roles and Menus

**Link Roles and Users**

Register Movement list

Check access permission

# 3.6 Role · User link(4/4)

## Link Role and User information

Link roles to the users.

Menu: **Management console> Role · User link list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Management Console interface. On the left, there's a sidebar with various menu items. The 'Role · User link list' item is highlighted with a red box and has a red number '2' above it, indicating the current step. The main area displays a table with columns: Item No., Role (ID name)\*, User ID: Login ID\*, Default access permission, Access permission Setting, Role to allow access, Last update date/time, and Last updated by. Two rows are visible: one for 'Role B' linked to 'user3' with a dot in the 'Default access permission' column, and another for 'Role C' also linked to 'user3'. Buttons for 'Back', 'Download all and edit file upload', and 'Trace history' are also present.

Item No.	Role (ID name)*	User ID: Login ID*	Default access permission	Access permission Setting	Role to allow access	Last update date/time	Last updated by
Auto-input							
	Role B	user3		●			
	Role C	user3		●			

- Create and register new users
- Create and register Roles
- Link Roles and Menus
- Link Roles and Users**
- Register Movement list
- Check access permission

# 3.7 Movement list registration

## Register new movement as Admin

In this section, we will register a new Movement so we can see the how the permissions work.

We can then configure access permissions to the data we register

Menu: **Ansible-Legacy > Movement list**

- ① Register > Start registration
- ② Follow the table below and press “Register”

The screenshot shows the Ansible-Legacy application interface. On the left is a navigation sidebar with various options like Main menu, Movement list (which is selected and highlighted with a red box), Playback files, Movement playbook link, Substitution value auto-registration setting, Target host, Substitution value list, Execution, Check operation status, and Execution list. The main content area has a header "Ansible-Legacy". Below the header are several buttons: "Description", "Display filter", "List/Update", and "Register". The "Register" button is highlighted with a red box and has a red number "2" above it, indicating the second step in the process. A tooltip "2 is a required item." points to the "Movement Name" field. The "Register" form contains fields for Movement ID (Auto-input), Movement Name (highlighted with a red box), Delay timer, Host specific format (dropdown), WinRM connection (dropdown), Header section (dropdown), Last update date/time (Auto-input), and Last updated by (Auto-input). At the bottom of the registration form are two buttons: "Disk" and "Registers". Below the registration form is a table titled "Dedicated information for ansible". The table has columns: Movement name, Host specification format, and Access permission Role. The data in the table is as follows:

Movement name	Host specification format	Access permission Role
move1	IP	Role A Role B
move2	IP	Role A
move3	IP	Role B
move4	IP	Role C

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

**Register Movement list**

Check access permission

Change Access permission role

A modal dialog box titled "Role select" is shown. It has a table with columns "Select", "ID", and "Name". The table contains four rows, each with a checkbox and a role name: 1 System Administrator, 2 role A, 3 role B, and 4 role C. At the bottom right of the dialog are "Decision" and "Cancel" buttons.

Only users that are linked to access permission roles can see and edit the data.

# 3.7 Check access permission(1/6)

## Check User 1's access permissions

Log in as User 1 and check the access permissions

- ① Check that the Login ID is “user1” and the Login user is “Test1” in the upper right corner.
- ② Menu: Ansible-Legacy > Movement list
- ③ Display filter > Press “Filter”

The screenshot shows the Ansible-Legacy application interface. The top navigation bar includes the Exastro logo, the title 'Ansible-Legacy', and user information ('User name [Test1]', 'Login ID [user1]', 'Change password', 'Logout'). A red box labeled '1' highlights the user info area. The left sidebar has a 'Movement list' button highlighted with a red box and labeled '2'. The main content area shows a 'Display filter' section with a 'Filter' button highlighted with a red box and labeled '3'. Below it is a table titled 'List/Update' showing movement history. The table has columns: History, Duplicate, Update, Discard, Movement ID, Movement Name, Orchestrator, Access permission, Remarks, Last update date/time, and Last updated by. The data in the table is as follows:

History	Duplicate	Update	Discard	Movement ID	Movement Name	Orchestrator	Access permission	Remarks	Last update date/time	Last updated by
History	Duplicate	Update	Discard	5	move1	Ansible Legacy	Role A,Role B		2021/12/08 15:22:20	System Administrator
History	Duplicate	Update	Discard	6	move2	Ansible Legacy	Role A		2021/12/08 15:22:45	System Administrator
History	Duplicate	Update	Discard	7	move3	Ansible Legacy	Role B		2021/12/08 15:23:03	System Administrator
History	Duplicate	Update	Discard	8	move4	Ansible Legacy	Role C		2021/12/08 15:24:36	System Administrator

A red box labeled '4' points to the 'Output Excel' button at the bottom of the table. The bottom left of the screen has a 'Register' button. The bottom right has a 'Contact administrator' button. A red arrow points from the 'Check access permission' callout to the 'Access permission' column in the table.

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Movement list

Check access permission

User 1 is linked to Role A, B and C, meaning that it has permission to see all the 4 registered Movements.

### 3.7 Check access permission(2/6)

## Register new Movement as User 1

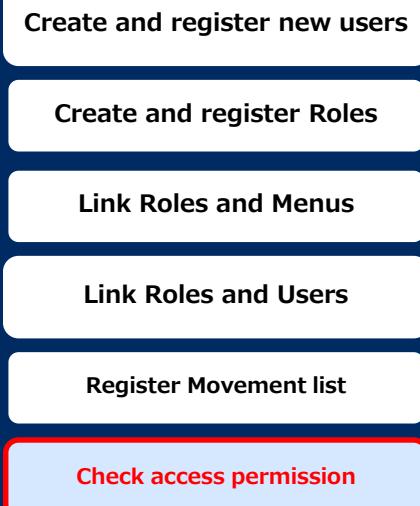
In this section, we will register a new Movement so we can check how Default access permissions work.

Menu: **Ansible-Legacy > Movement list**

- ① Register > Start registration
- ② Follow the table below and press “Register”
- ③ Check that Role A is set as access permission role

The screenshot shows the Ansible-Legacy interface for registering a new movement. The main window displays a table with two rows: 'Movement name' (movement1) and 'Host specification format' (IP). Below this, a registration form has 'Movement ID' and 'Host specific format' fields highlighted with a red box. A red circle labeled '2' points to the 'Host specific format' dropdown in the table. A red circle labeled '3' points to the 'Register' button at the bottom of the form. A red callout bubble labeled 'Point' contains the following text:

user1 has "Role A" set with "With Default access permission", meaning that Role A will automatically be set as Access permission role.



# 3.7 Check access permission(3/6)

## Check User 2's access permissions

Log in as User 2 and check the access permissions

- ① Check that the Login ID is “user2” and the Login user is “Test2” in the upper right corner
- ② Menu: Ansible-Legacy > Movement list
- ③ Display filter > Press “Filter”

User name [Test2]  
Login ID [user2]

Change password

1

2

3

Check access permission

User 2 has Role B set to it, meaning that only 2 Movements will be displayed.

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Movement list

Check access permission

### 3.7 Check access permission(4/6)

## Register new Movement as User2

In this section, we will register a new Movement so we can check how Default access permissions work.

Menu: **Ansible-Legacy > Movement list**

- ① Register > Start registration
- ② Follow the table below and press “Register”
- ③ Check that Role B is set as access permission role

The screenshot shows the Ansible-Legacy Movement list interface. On the left, there's a sidebar with 'Main menu' and 'Movement list'. The main area has a table with columns: Movement ID, Movement Name\*, Delay timer, Host specific format\*, and Dedication. A red box highlights the 'Movement Name\*' column, which contains 'movement2'. A red callout bubble with the number '2' points to the 'Movement Name\*' column header. Another red box highlights the 'Host specific format\*' column, which contains 'IP'. At the bottom of the table, there are 'Back' and 'Register' buttons. To the right of the table, there's a user session window for 'User name: [Test2] Login ID: [user2]' with 'Logout' and 'Sword' buttons. Below the table, there are links for 'Download all and edit file uploads' and 'Trace history'. A red circle labeled 'Point' is overlaid on the bottom right of the table area.

Point

user2 has "RoleB" set with "With Default access permission", meaning that Role B will automatically be set as Access permission role.

Create and register new users

Create and register Roles

Link Roles and Menus

Link Roles and Users

Register Movement list

Check access permission

# 3.7 Check access permission(5/6)

## Check User 3's access permissions

Log in as User 3 and check the access permissions

- ① Check that the Login ID is “user3” and the Login user is “Test3” in the upper right corner.
- ② Menu: Ansible-Legacy > Movement list
- ③ Display filter > Press “Filter”

User name [Test3]  
Login ID [user3]  
Change password Logout

2

3

1

Filter

Clear filter

Auto-filter

List/Update

History Duplicate Update Discard Movement ID Movement Name Orchestrator Access permission Remarks Last update date/time Last updated by

History	Duplicate	Update	Discard	Movement ID	Movement Name	Orchestrator	Access permission	Remarks	Last update date/time	Last updated by
History	Duplicate	Update	Discard	5 move1	Ansible Legacy	Role B	*****(2),Role B		2021/12/08 15:22:20	System Administrator
History	Duplicate	Update	Discard	7 move3	Ansible Legacy	Role B			2021/12/08 15:23:03	System Administrator
History	Duplicate	Update	Discard	8 move4	Ansible Legacy	Role C			2021/12/08 15:24:36	System Administrator
History	Duplicate	Update	Discard	10 movement2	Ansible Legacy	Role B			2021/12/08 15:37:25	Test2

Filter result count: 4

Output Excel

Register

Contact administrator

- Create and register new users
- Create and register Roles
- Link Roles and Menus
- Link Roles and Users
- Register Movement list
- Check access permission

# 3.7 Check access permission(6/6)

## Register new Movement as role 3

In this section, we will register a new Movement so we can check how Default access permissions work.

Menu: **Ansible-Legacy > Movement list**

- ① Register > Start registration
- ② Follow the table below and press “Register”
- ③ Check that Role B and Role C is set as access permission role

Movement name

movement3

Host specification format

IP

Point

- Create and register new users
- Create and register Roles
- Link Roles and Menus
- Link Roles and Users
- Register Movement list
- Check access permission



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