



IT Automation

Host group management • Menu creation 【Practice】

※In this document, “Exastro IT Automation” is described as “ITA”.

Version 1.0

Exastro developer

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1. Introduction

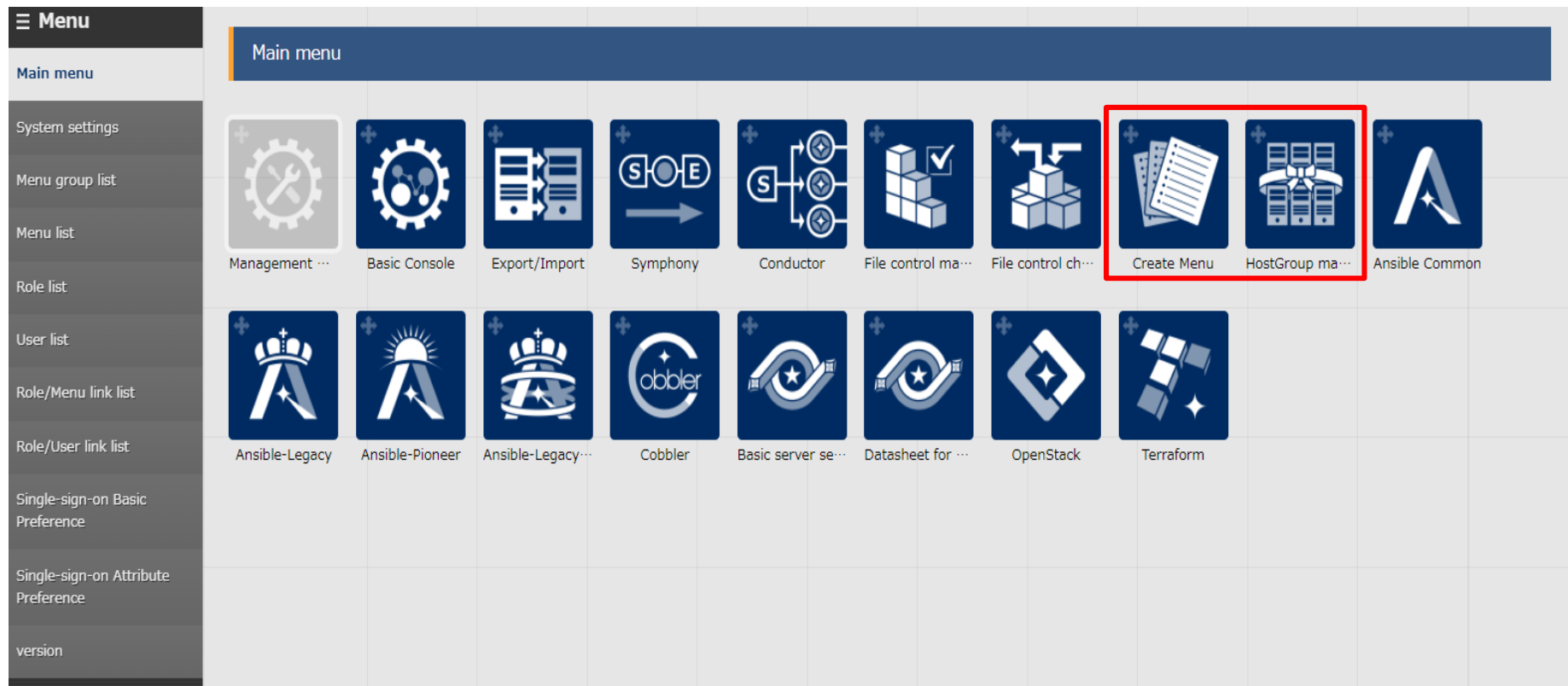
1.1 About this document

About this document

This document will guide users through a practice scenario where users will be able to get some hands on experience to get a deeper understanding about the following functions.

We will use Ansible Legacy to execute the operations.

- Host group Management
- Create menu



1.2 Work environment

Work environment

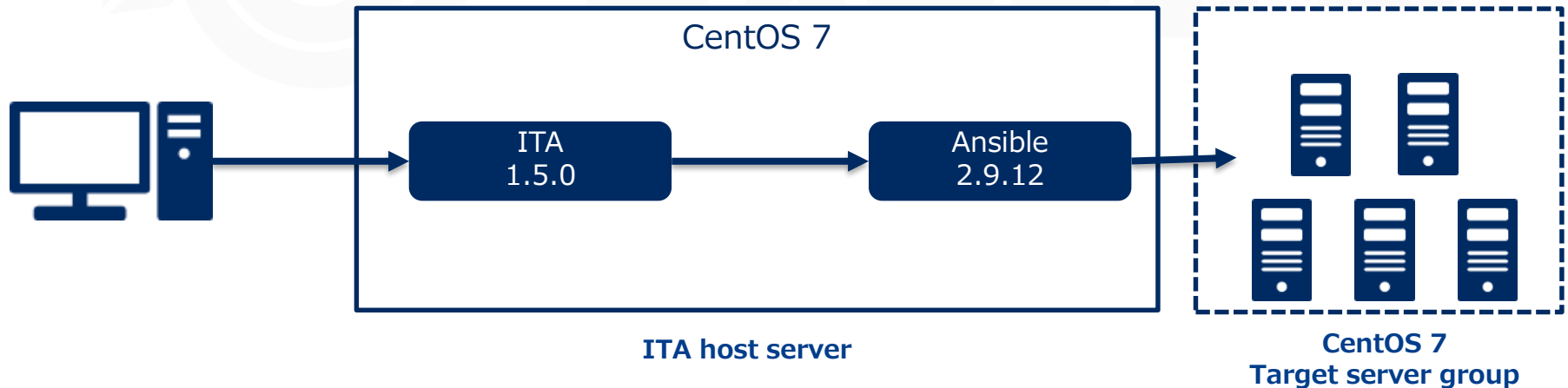
The work environment used in this document is as follows. Please prepare 5 servers in addition to the ITA Host server.(※1)The additional servers will be work targets.

ITA host server

- CentOS 7 (※2)
- ITA 1.5.0
- Ansible 2.9.12

Target

- CentOS 7.8 (※3) ... 5 servers



※1 While we recommend that you prepare 5 servers in order to get the best experience, it is possible to complete this scenario with 3~4 servers.

※2 Now CentOS7 will be used as the host server, but ITA can be installed on OS RHEL7 and RHEL8.

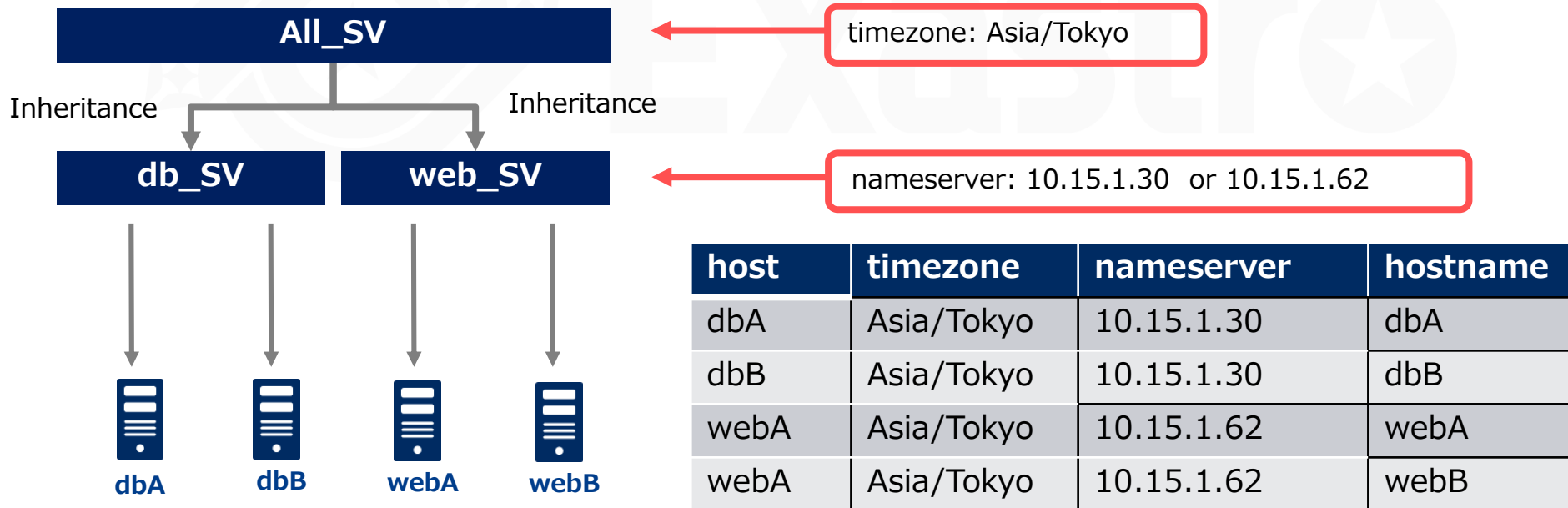
※3 Any OS compatible with Ansible can be used.

1.3 Scenario (1/2)

Scenario 1. Set basic settings for the whole server

Use the host group and menu creation functions to execute the tasks below.

- ① Set a common time zone for the parent host group "All_SV".
- ② Set different IP address of DNS server for child host group "db_SV" and "web_SV".
- ③ Set individual host name for each host.



1.3 Scenario (2/2)

Scenario 2 execute only on the added server

Assume the work of adding a server after working on the previous section.

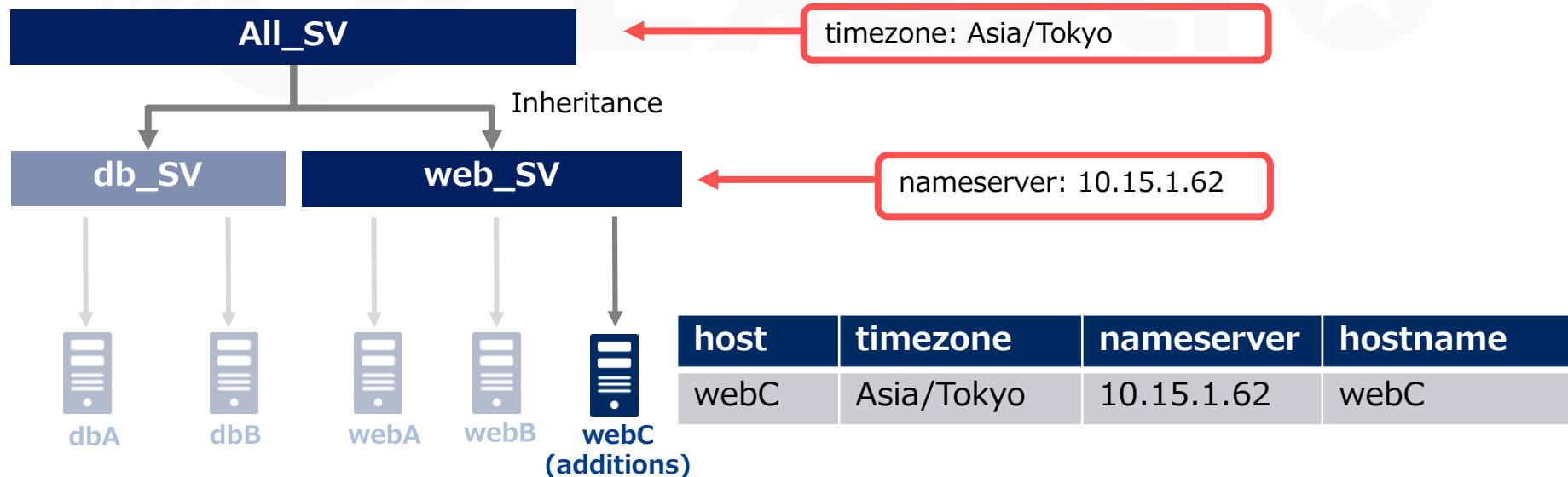
If the playbook is idempotent,

1) Add the additional server to host group. 2) Execute the same operation settings completed.

However, there are some playbooks are not idempotent such as those that add to the file. If this is applied repeatedly to the same host, excess Post Scripts and other troubles might occur.

Taking that into consideration, all operation in scenario 2 will take place on the additional servers.

The contents of the Conductor that is going to get executed are the same as the ones in scenario 1.



2. Practice Scenario 1

2.1 Pre-preparation (1/2)

Playbook creation

This scenario will use the following three playbooks.

Please create a file with the following contents.

[Attention] Create the yml file with Character code " UTF-8", New line code "LF".

```
- name: Set Timezone
  timezone:
    name: "{{ VAR_locale_timezone }}"
```

File name: 1-set_timezone.yml

Changes the time zone to the specified value.

In this scenario, all host`s common value will be substituted.

```
- name: Set Hostname
  hostname:
    name: "{{ VAR_hostname }}"
```

File name: 2-set_hostname.yml

Changes the hosts name.

In this scenario, value will be substituted per host.

```
- name: Add Nameserver
  shell: 'echo nameserver {{ VAR_nameserver_ip }} >> /etc/resolv.conf'
```

File name: 3-set_nameserver.yml

Adds postscript to /etc/resolv.conf.

As it isn't idempotent, it will be only be executed to each host once.

2.1 Pre-preparation(2/2)

Target host registration

Register host to execute the work in ITA.

This time, we will register 5 servers.

※ webC is used in scenario 2.

Menu : **Basic Console > Device list**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register △Close

Managed system item number	HW device type	Host name *	IP address *	EtherWakeOnLan		Login user ID	Login pas:		Last update date/time	Last updated by
				MAC address	Network device name		Management			
Auto-input									Auto-input	Auto-input

Item	1Server	2Server	3Server	4Server	5Server
HW device type	SV				
Host name	webA	webB	dbA	dbB	webC
IP address	Target device IP address				
Login ID	(Enter arbitrary value)				
Management	●				
Login password	(Enter arbitrary value)				
Authentication method	ssh				

※* is a required item.

Back

Register

2.2 Operation registration

Register new operation

Create operation

Menu : Basic Console > Input operation list

- ① Click Register > Start Registration.
- ② Input the following information for each item and click "Register".

Register

No.	Operation ID	Operation name*	Scheduled date for execution*	Remarks
Auto-input	Auto-input	<input type="text"/>	<input type="text"/>	

※*is a required item.

BackRegister

Operation name	Scheduled date for execution
Basic settings all	(Enter arbitrary value)

※ "Scheduled date for execution" is just an item for management. It will not be executed automatically.

2.3 Movement configuration (1/3)

Create Movement

Register the Movements that is going to be associated with the playbooks.

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

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

Movement ID	Movement Name*	Delay timer	Host specific format*	Dedicated information for ansible	
				WinRM connection	Header section
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

※*is a required item.

Back

Register



Movement name	Host specification format
Set Timezone	IP
Set Hostname	IP
Add Nameserver	IP

2.3 Movement configuration (2/3)

Register playbook

Register the created playbook in ITA.

Menu : Ansible-Legacy > playbook files

- ① Click Register > Start Registration.
- ② Select a playbook from "Browser" and click "Upload in advance".
- ③ Input the following information for each item and click "Register".

Playbook file name	Playbook file
set_timezone	1-set_timezone.yml
add_nameserver	2-.set_nameserver.yml
set_hostname	3-set_hostname.yml

2.3 Movement configuration (3/3)

Register the playbook in Movement.

Link the created Movement and Playbook files.

Menu : Ansible-Legacy > Movement details

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

Associated item No.	Movement*	Playbook files*	Include order*	Remarks
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>	

※*is a required item.

Back

Register

Related table

Movement	Playbook file	Include order
Set Timezone	set_timezone	1
Add Nameserver	add_nameserver	1
Set Hostname	set_hostname	1

2.4 Conductor creation

Create Conductor

Create a Conductor that collects the defined Movements.

Menu: **Conductor > Conductor class edit**

The screenshot shows the Exastro Conductor creation interface. It includes a top toolbar with buttons like 'New', 'Save', 'Read', 'Cancel', 'Back', and 'Go to table'. The main workspace is a grid where a sequence of nodes is being built: a blue 'S' node labeled 'Conductor Start', followed by three red circular nodes labeled '7 Set Timezone', '8 Set Hostname', and '9 Add Nameserver', and finally a blue 'E' node labeled 'Conductor End'. A red box highlights this entire sequence. To the right, a 'Conductor' configuration panel is visible, showing 'ID: Auto numbering' and 'Name: server basic setting' (highlighted with a red box). Below this is a 'Movement' list with a table of movements. A red box highlights the first three movements in the list. At the bottom left, a 'Registration' button is highlighted with a red box. Numbered callouts provide instructions: 1 points to the conductor name field, 2 points to the movement list, 3 points to the node sequence, and 4 points to the registration button.

1 Input Conductor name.

Conductor name
Basic server setting

2 Add the required Movement by dragging and dropping.

3 Connect nodes to each others.

Movement	Order
Set Timezone	1
Add Nameserver	2
Set Hostname	3

4 Click "Registration".

2.5 Host group setting (1/4)

Define host groups

First, create the host groups to which the host belongs.

Menu : **Host group management > Host group list**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

Host Group ID	HostGroup name*	Priority (larger value is higher)*
Auto-input	<input type="text"/>	<input type="text"/>

※*is a required item.

Back

Register

Host group name	Priority order
All_SV	1
web_SV	2
db_SV	3

2.5 Host group setting (2/4)

Define the parent-child relationship of host groups

Define the parent-child relationship in host groups.

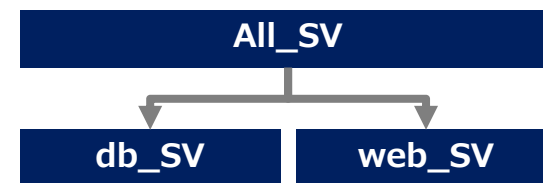
Menu : **Host group management > Host group parent-child link list**

- ① Click Register > Start Registration.
- ② Select the following information for each item and click "Register".

Item No.	HostGroup	
	Parent*	Child*
Auto-input	<input type="text"/>	<input type="text"/>

Host group parent	Host group child
All_SV	web_SV
All_SV	db_SV

Image



2.5 Host group setting (3/4)

Register the host to host group

Link the target host with the created host group.

Menu : **Host group management > Host link list**

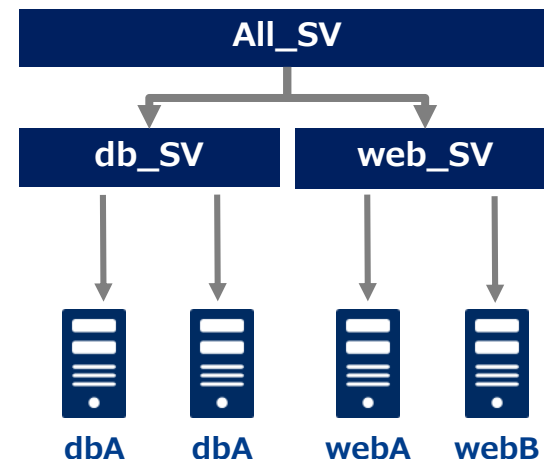
- ① Click Register > Start Registration.
- ② Select the following information for each item and click "Register".

Register

Item No.	HostGroup name*	Operation	Host name
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>

Host group name	Operation	Host name
web_SV		webA
web_SV		webB
db_SV		dbA
db_SV		dbB

Image



2.5 Host group setting (4/4)

Check host group variable

The Host name registered in the Host group is automatically variablized by the "Host Group Variablization" function.
Check the contains.

Menu : **Host group management > Host group variable**

- ① Click "Filter".
- ② Check that the variables are correctly converted by the "Host Group Variablization Function".

Item No.	HostGroup name	HostGroupVariable name	Host name	Remarks	Last update date/time	Last updated by
1	GroupA	VAR_hostgroup_GroupA	Tsai_test		2020/10/21 11:50:59	Create hostgroup variable procedure
2	GroupB	VAR_hostgroup_GroupB	Tsai_test		2020/10/21 11:55:42	Create hostgroup variable procedure
3	GroupC	VAR_hostgroup_GroupC	Tsai_test		2020/10/21 11:55:42	Create hostgroup variable procedure

Point

Each host that directly belongs a host group also belongs to the parent host group of the parent host group.

2.6 Menu list(1/8)

Menu group creation

Create a menu group that is going to contain all of the menus (Parameter sheets).
At the same time, create the group that is going to contain menus and data sheets (both for referencing).

Menu: **Management console > Menu group list**

- ① Click Register > Start Registration.
- ② Input the following information for each item and click "Register".

Register

Menu group ID	Menu group name*	Display order	Image for panel	
Auto-input	<input type="text"/>	<input type="text"/>	Choose file	No file chosen
			<div>Upload in advance</div>	
			Upload status:	

※*is a required item.

Back

Register

Menu group name	Display order
Basic server setting(for host group)	120
Basic server setting(for host)	125
Basic server setting(for reference)	130
Data sheet for pull-down selection	140

2.6 Menu list(2/8)

Create data sheet

Create data sheet.

The value registered here will later be selectable from a pull-down menu.

Menu : **Create menu** > **Create/Define menu**

- ① Input the following information for each item.
- ② Click "Target menu group".(Next item)

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

Menu creation information

Basic information

Id : Auto-input

Menu name* :

Creation target* : Data Sheet(Master available) ▼

Display order* :

Last modified : Auto-input

Last updated by : Auto-input

Target menu group

Data sheet* :

Target menu group

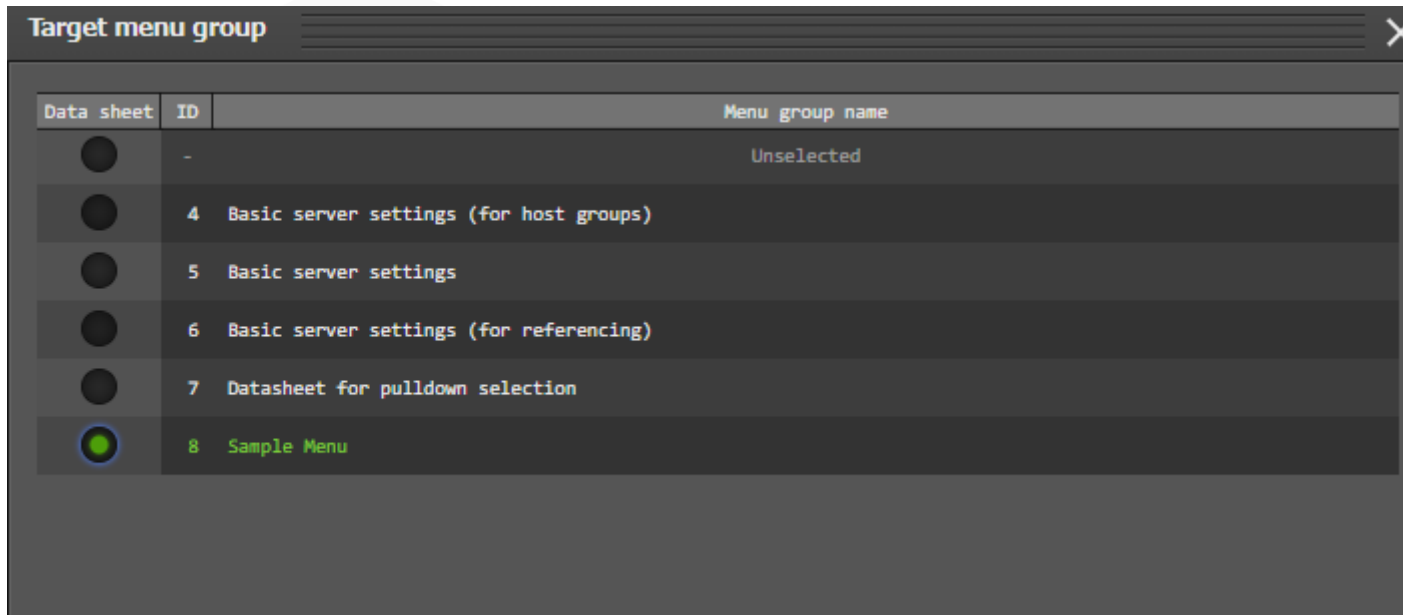
Item name	Input contents
Menu name	Time zone list
Target operation	Data sheet(Master available)
Display order	1

2.6 Menu list(3/8)

Create data sheet.

In "Menu Group Selection", select the menu groups that are going to contain the menus that you want to create.

- ① Select as shown below.
- ② Press " Decision" on the bottom of the screen.



The screenshot shows a dialog box titled "Target menu group" with a close button (X) in the top right corner. Inside the dialog is a table with three columns: "Data sheet", "ID", and "Menu group name". The table contains six rows. The first row is labeled "Unselected". The second row has ID "4" and name "Basic server settings (for host groups)". The third row has ID "5" and name "Basic server settings". The fourth row has ID "6" and name "Basic server settings (for referencing)". The fifth row has ID "7" and name "Datasheet for pulldown selection". The sixth row has ID "8" and name "Sample Menu", which is highlighted with a blue border and a green dot in the "Data sheet" column.

Data sheet	ID	Menu group name
	-	Unselected
	4	Basic server settings (for host groups)
	5	Basic server settings
	6	Basic server settings (for referencing)
	7	Datasheet for pulldown selection
	8	Sample Menu

2.6 Menu list(4/8)

Define the item name of the data sheet

Continuing from the previous section, define the items on the sheet.

Menu : **Create menu > Create/Define menu**

- ① Click "Item" and add a new item.
- ② Input the following for each of the items.
- ③ Click "Create" at the bottom of the screen.

The screenshot shows the 'Time zone' dialog box with the 'Item' button highlighted by a red box and a callout '1'. The dialog box contains the following fields:

- String (dropdown menu)
- Maximum number of bytes*: 32
- Regular expression (text field)
- ☒ Required ☒ Unique constraint
- Explanation (text field)
- Remark (text field)

The 'List(Preview)' table shows the following data:

No	Host name	Operation name	Reference date and time	Scheduled date
1	192.168.0.1	Operation	2020/01/01 00:00	2020/01/01 00:00
2	192.168.0.1	Operation	2020/01/01 00:00	2020/01/01 00:00
3	192.168.0.1	Operation	2020/01/01 00:00	2020/01/01 00:00

The 'Create' button at the bottom is highlighted by a red box and a callout '3'.

Item name	Input method	Maximum no. of bytes	Required	Unique constraint
Timezone	string	32	✓	✓

2.6 Menu list(5/8)

Create the menu for the host group

Create a parameter sheet for the host group and manage the parameters that apply to your host group.

Menu : **Create menu** > **Create/Define menu**

- ① "Basic information" Input the following information for each item.
- ② Click "Target menu group" and select the Target menu group.(Next item)

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

Menu creation information

Basic information

Id : Auto-Input

Menu name* :

Creation target* : Parameter Sheet(Host/Operation) ▼

Display order* :

Use* : For Host ▼

Last modified : Auto-Input

Last updated by : Auto-Input

Target menu group

Host* :

Reference* :

Vertical :

[Target menu group](#)

Item name	Enter content
Manu name	Parameter for server
Creation target	Parameter sheet (Host/Operation)
Display order	1
Use	For Host

Target menu group

Host	Reference	Vertical	ID	Menu group name
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	-	Unselected
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	4	Basic server settings (for host groups)
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	5	Basic server settings
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	6	Basic server settings (for referencing)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	7	Datasheet for pulldown selection
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	8	Sample Menu

2.6 Menu list(6/8)

Define the item name of the parameters sheet

Continuing from the previous section, define the items on the sheet.

Menu : **Create menu > Create/Define menu**

- ① Click "Item" and add a new item.
- ② Input the following for each of the items.
- ③ Click "Create" at the bottom of the screen.

The screenshot shows the Exastro interface with the 'Item' dialog box open. The 'Item' button is highlighted with a red box and a callout '1'. The 'Nameserver' field is highlighted with a red box and a callout '2'. The 'Create' button at the bottom is highlighted with a red box and a callout '3'.

Item name	Input method	Select item
Timezone	Pulldown selection	Basic server settings: Timezone list: Parameter/Timezone

+

Item name	Input method	Maximum no. of bytes
Nameserver	String	32

No.	Host name	Operation name	Reference date and time	Scheduled date	Last run date
1	192.168.0.1	Operation	2020/01/01 00:00	2020/01/01 00:00	
2	192.168.0.1	Operation	2020/01/01 00:00	2020/01/01 00:00	
3	192.168.0.1	Operation	2020/01/01 00:00	2020/01/01 00:00	

2.6 Menu list(7/8)

Create the menu for the host group

Create a parameter sheet for the host group and manage the parameters that apply to your host group.

Menu : **Create menu > Create/Define menu**

- ① "Basic information" Input the following information for each item.
- ② Click "Target menu group" and select the Target menu group.(Next item)

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

Menu creation information

Basic information

Id : Auto-Input

Menu name* : Host name

Creation target* : Parameter Sheet (Host/Operation) ▼

Display order* : 1

Use* : For Host ▼

Last modified : Auto-Input

Last updated by : Auto-Input

Target menu group

Host* :
Reference* :
Vertical :

Target menu group

Item name	Enter content
Menu name	Host name
Creation target	Parameter sheet (Host/Operation)
Display order	1
Use	For host

Target menu group

Host	Reference	Vertical	ID	Menu group name
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	-	Unselected
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	4	Basic server settings (for host groups)
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	5	Basic server settings
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	6	Basic server settings (for referencing)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	7	Datasheet for pulldown selection
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	8	Sample Menu
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	9	Exastro Parameter sheet

2.6 Menu list(8/8)

Define the item name of the parameters sheet

Continuing from the previous section, define the items on the sheet.

Menu : **Create menu > Create/Define menu**

- ① Click "Item" and add a new item.
- ② Input the following for each of the items.
- ③ Click "Create" at the bottom of the screen.

The screenshot shows the 'Create/Define menu' interface. The 'Item' tab is selected, and a new item is being defined. The table below shows the item definition:

Item name	Input method	Maximum number of bytes
Hostname	String	32

The 'Create' button is highlighted at the bottom of the screen.

Below the table, a 'Preview' window shows the resulting data:

No	Host name	Operation name	Reference date and time
1	192.168.0.1	Operation	2020/01/01 00:00
2	192.168.0.1	Operation	2020/01/01 00:00
3	192.168.0.1	Operation	2020/01/01 00:00

2.7 Data registration(1/3)

Register data to the data sheet.

The Data and Parameter sheet are now created.
Move to the created menu and input the data.

Menu: **Data sheet for pull-down selection > Time zone list**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

No	Timezone*	Remarks	Last update date/time	Last updated by
Auto-input	<input type="text"/>		Auto-input	Auto-input

Timezone

Asia/Tokyo

America/New_York

2.7 Data registration(2/3)

Register data to the parameter sheet

Move to the created menu and input the data.

Menu: **Basic server setting(for host group) > Server parameter**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

No	Host name/Host group name	Operation	Timezone	port_to_open	Nameserver_ip
Auto-Input					

Point

Users can select from the contents entered in the data sheet in the previous section.

Host name/Host group name	Operation	Timezone	Nameserver_ip
[HG]All_hosts	Basic settings all	Asia/Tokyo	10.15.1.30
[HG]web_SV	Basic settings all	Asia/Tokyo	10.15.1.62
[HG]db_SV	Basic settings all	Asia/Tokyo	10.15.1.30

2.7 Data registration(3/3)

Register data to the parameter sheet

Next, register the data from the menu created in the menu group for the host.

Menu: **Basic server setting(Host) > Host name**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

No	Host name*	Operation	Parameter			
		Operation*	path	owner	group	mode
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Host name	Operation	Hostname
webA	Basic settings all	webA
webB	Basic settings all	webB
dbA	Basic settings all	dbA
dbB	Basic settings all	dbB

2.8 Substitution Value Automatic Registration setting

Set Substitute Value Automatic Registration settings

Connect the variables to each item after entering the data in the parameter sheet.

Menu: **Ansible-Legacy > Substitution value automatic registration setting**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

Item No.	Parameter sheet		Registration method	Movement	IoC variable				NULL link
	Menu group:Menu	Item			Key variable		Value variable		
					Variable name	Substitution order	Variable name	Substitution order	
Auto-input	<input type="text"/>	Select menu <input type="text"/>		<input type="text"/>	Select Movement <input type="text"/>	Select Movement <input type="text"/>	<input type="text"/>		

Menu	Item	Registration method	Movement	Value variable Variable name	Substitution order
Parameter for server	Timezone	Value type	Set Timezone	VAR_locale_timezone	
Parameter for server	Nameserver_ip	Value type	Add Nameserver	VAR_nameserver_ip	
Host name	Hostname	Value type	Set Hostname	VAR_hostname	

2.9 Check Substitution value • Target host

Check Substitution value and Target host

Check the value specified by the substituted value automatic registration and the target host.

Menu: **Ansible-Legacy > Target host & Ansible-Legacy > Substitution value list**

- ① Click "Filter".
- ② Check that the correct value is specified by "legacy substitution value automatic registration setting procedure".

Update	Discard	Item No.	Operation	Movement	Host	Remarks	Last update date/time	Last updated by
Update	Discard	1	1:Operation1	1:Legacy1	1:Tsai_test		2020/09/01 11:41:38	Data portability procedure
Update	Discard	2	1:Operation1	3:Legacy_movement	Exchange ID has failed(2)		2020/10/07 10:33:55	Data portability procedure
Update	Discard	3	1:Operation1	3:Legacy_movement	Exchange ID has failed(3)		2020/10/08 09:47:08	Data portability procedure
Update	Discard	4	1:Operation1	1:Legacy1	Exchange ID has failed(3)		2020/10/15 10:21:55	Data portability procedure
Update	Discard	5	2:Test Operation	1:Legacy1	Exchange ID has failed(3)		2020/10/15 10:23:43	Data portability procedure
Update	Discard	6	2:Test Operation	1:Legacy1	1:Tsai_test		2020/10/16 13:35:55	Data portability procedure
Update	Discard	7	2:Test Operation	Exchange ID has failed(2)	1:Tsai_test		2020/10/16 13:36:08	Data portability procedure
Update	Discard	8	2:Test Operation	3:Legacy_movement	1:Tsai_test		2020/10/16 13:37:57	Data portability procedure
Update	Discard	11	Exchange ID has failed(4)	1:Legacy1	4:testserverJoachim		2020/10/20 15:09:15	Data portability procedure
Update	Discard	12	Exchange ID has failed(4)	1:Legacy1	1:Tsai_test	This is test for milan	2020/10/20 15:27:30	Data portability procedure
Update	Discard	14	Exchange ID has failed(5)	5:Move1	1:Tsai_test		2020/10/21 09:41:13	Data portability procedure
Update	Discard	15	1:Operation1	10:Conductor1	1:Tsai_test		2020/11/10 16:14:08	Data portability procedure
Update	Discard	16	8:OP1	11:MV1	1:Tsai_test		2020/11/19 10:53:52	System Administrator
Update	Discard	17	3:operation	12:move1	1:Tsai_test		2020/12/02 16:14:26	System Administrator
Update	Discard	18	3:operation	7:Set Timezone	1:Tsai_test		2020/12/03 11:53:05	System Administrator
Update	Discard	19	3:operation	8:Set Hostname	1:Tsai_test		2020/12/03 11:53:25	System Administrator

Target host

Update	Discard	Item No.	Operation	Movement	Host	Variable name	Specific value	Substitution order	Remarks	Last update date/time	Last updated by
Update	Discard	1	1:Operation1	1:Legacy1	1:Tsai_test	1:VAR_dir_name	/root/test			2020/09/02 18:20:07	Data portability procedure
Update	Discard	2	1:Operation1	1:Legacy1	1:Tsai_test	2:VAR_owner	root			2020/09/02 18:20:19	Data portability procedure
Update	Discard	3	1:Operation1	1:Legacy1	1:Tsai_test	3:VAR_group	root			2020/09/02 18:20:35	Data portability procedure
Update	Discard	4	1:Operation1	1:Legacy1	1:Tsai_test	4:VAR_mode	0755			2020/09/02 18:20:46	Data portability procedure
Update	Discard	7	Exchange ID has failed(5)	5:Move1	1:Tsai_test	9:VAR_DIRECTORY	testdirectory			2020/10/21 09:42:23	Data portability procedure
Update	Discard	8	8:OP1	11:MV1	1:Tsai_test	12:VAR_directory	/tmp/work1			2020/11/19 10:57:36	System Administrator
Update	Discard	9	3:operation	12:move1	1:Tsai_test	13:VAR_DIRECTORY	testdirectory			2020/12/02 16:44:10	System Administrator

Substitution value list

2.10 Conductor execution(1/2)

Execute Conductor

If you finished the operations in the previous section, the Conductor should be created and the substitute values should be registered.

Finally, execute Conductor and check the result on the target host.

Menu : **Conductor > Conductor execution**

Menu

- Main menu
- Conductor interface information
- Conductor class list
- Conductor class edit
- Conductor execution
- Conductor confirmation
- Conductor list
- Conductor Regularly execution

Conductor [List]

Select	Conductor class ID	Conductor name	Explanation	Remarks	Last update date/time	Last updated by
<input type="radio"/>	1	Server basic setting			2020/09/02 10:28:03	Data portability procedure
<input type="radio"/>	2	Test			2020/10/08 09:26:00	Data portability procedure
<input type="radio"/>	4	Kato TEST104			2020/11/04 15:16:16	Data portability procedure
<input type="radio"/>	5	conductor1			2020/11/10 16:26:42	Data portability procedure

Filter result count: 4

Operation [List]

Select	No.	Operation ID	Operation name	Scheduled date for execution	Last execution date	Remarks	Last update date/time	Last updated by
<input type="radio"/>	1	1	Operation1	2020/08/27 16:15	2020/12/04 09:21		2020/12/04 09:21:54	Legacy execution procedure
<input type="radio"/>	2	2	Test Operation	2020/10/08 10:00	2020/10/23 16:21		2020/10/23 16:21:05	Legacy execution procedure
<input type="radio"/>	6	6	Basic settings all	2020/10/24 09:54		Test for Host group menu	2020/10/24 09:54:53	Data portability procedure
<input type="radio"/>	7	7	ope1	2020/11/10 14:00			2020/11/10 14:00:49	Data portability procedure
<input type="radio"/>	8	8	OP1	20				

Execution

Tips

The screen will automatically change to the "Conductor Confirmation" screen after executing.

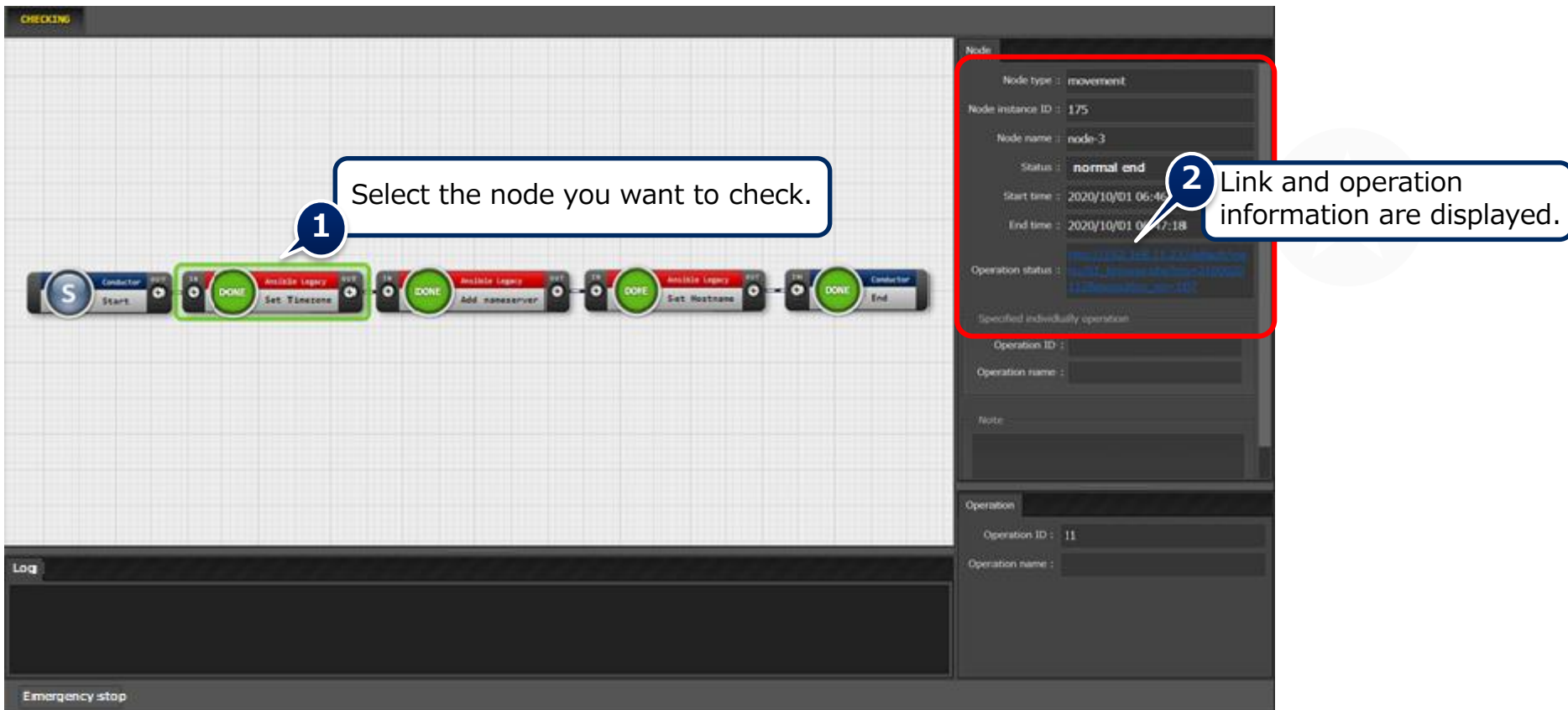
2.10 Conductor execution(2/2)

Check the Conductor Execution results

In the work confirmation screen, you can check the results of the whole execution or execution per node.

Selecting an inputted Movement will show a link to a more detailed result screen.

Menu : **Conductor > Conductor confirmation**



2.11 Reference parameter sheet confirmation

Check contents of the reference parameter sheet

By completing the operation in the previous section, the set parameters have now been applied to the target host.

Finally, check the reference parameter sheet and confirm that the update date and time etc. are recorded.

Menu: Basic server setting(Reference)

- ① Click "Filter".
- ② Confirm that the "Reference date/time" and "Last update date/time" are updated.

Update	Discard	No	Host name	Operation				Parameter			Last update date/time	Last updated by	
				ID	Operation name	Reference date	Scheduled date for execution	Last execution date	path	owner			group
Update	Discard	1	Tsai_test	2	Test Operation	2020/10/23 16:21	2020/10/08 10:00	2020/10/23 16:21	/tmp/work2	root	root	2020/12/07 10:51:36	System Administrator
Update	Discard	2	Tsai_test	9	operation	2020/12/03 15:50	2020/12/18 16:03	2020/12/03 15:50	/tmp/work2	root	root	2020/12/07 10:55:44	System Administrator
Update	Discard	3	Tsai_test	1	Operation1	2020/12/04 09:21	2020/08/27 16:15	2020/12/04 09:21	/tmp/work2	root	root	2020/12/07 10:57:33	System Administrator

3. Practice Scenario 2

3.1 Operation registration

Register new operation

Create an additional operation.

Menu : **Basic Console > Input operation list**

- ① Click Register > Start Registration.
- ② Input the following information for each item and click "Register".

Register

No.	Operation ID	Operation name*	Scheduled date for execution*	Remarks
Auto-input	Auto-input	<input type="text"/>	<input type="text"/>	

※*is a required item.

Back

Register

Operation name	Scheduled date for execution
Basic setting Additional server only	(Enter arbitrary value)

※ "Scheduled date for execution" is just an item for management. It will not be executed automatically.

3.2 Add host to host group

Register host to host group

Register additional hosts in the host group.

In order to remove WebA and webB from being work targets, we also will change the settings that we set in Scenario 1.

Menu: **Host group management > Host link list**

- ① Click List/Update > Update
Click "New register "Register > Start Registration.
- ② Select the following information for each item and click "Register".

Register

Item No.	HostGroup name*	Operation	Host name*
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>

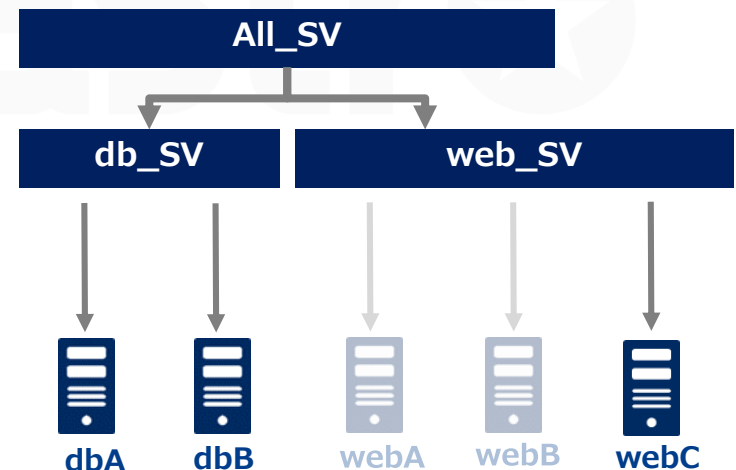
※*is a required item.

Host group name	Operation	Host name
web_SV	Basic settings all	webA
web_SV	Basic settings all	webB
web_SV	Basic settings additional server only	webC

Point

In this case,
When "Basic settings all servers" is executed, only WebA and B will be targets.
When "Basic settings Additional server" is executed, only webC will be target.

Image



3.3 Data registration(1/2)

Register data in the parameter sheet

Move to the menu created in scenario 1 and input the data.

Menu: **Basic server setting(Host group) > Server parameter**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

No	Host name/Host group name	Operation Operation	Timezone	Parameter port_to_open	Nameserver_ip
Auto-Input	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Point

Users can select from the contents entered in the data sheet in the previous section.

Host name/Host group name	Operation	Timezone	Nameserver_ip
[HG]web_SV	Basic settings additional server only	Asia/Tokyo	10.15.1.62

3.3 Data registration(2/2)

Register data in the parameter sheet

Next, register the data from the menu created in the menu group for the host.

Menu: **Basic server setting(Host) > Host name**

- ① Click Register > Start Registration.
- ② Select or input the following information for each item and click "Register".

Register

No	Host name*	Operation	Parameter			
		Operation*	path	owner	group	mode
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Host name	Operation	Hostname
webC	Basic settings additional server only	webC

3.4 Check Substitution value • Target host

Check Substitution value and Target host

Check the value specified by the substituted value automatic registration and the target host.

Menu: **Ansible-Legacy > Target host & Ansible-Legacy > Substitution value list**

- ① Click "Filter".
- ② Check that only the data of "webC" is added by the "legacy substitution value automatic registration setting procedure".

Target host

Update	Discard	Item No.	Operation	Movement	Host	Remarks	Last update date/time	Last updated by
Update	Discard	1	1:Operation1	1:Legacy1	1:Tsa1_test		2020/09/01 11:41:38	Data portability procedure
Update	Discard	2	1:Operation1	3:Legacy_movement	Exchange ID has failed(2)		2020/10/07 10:33:55	Data portability procedure
Update	Discard	3	1:Operation1	3:Legacy_movement	Exchange ID has failed(3)		2020/10/08 09:47:08	Data portability procedure
Update	Discard	4	1:Operation1	1:Legacy1	Exchange ID has failed(3)		2020/10/15 10:21:55	Data portability procedure
Update	Discard	5	2:Test Operation	1:Legacy1	Exchange ID has failed(3)		2020/10/15 10:23:43	Data portability procedure
Update	Discard	6	2:Test Operation	1:Legacy1	1:Tsa1_test		2020/10/16 13:35:55	Data portability procedure
Update	Discard	7	2:Test Operation	Exchange ID has failed(2)	1:Tsa1_test		2020/10/16 13:36:08	Data portability procedure
Update	Discard	8	2:Test Operation	3:Legacy_movement	1:Tsa1_test		2020/10/16 13:37:57	Data portability procedure
Update	Discard	11	Exchange ID has failed(4)	1:Legacy1	4:testserverJoachim		2020/10/20 15:09:15	Data portability procedure
Update	Discard	12	Exchange ID has failed(4)	1:Legacy1	1:Tsa1_test	This is test for milan	2020/10/20 15:27:30	Data portability procedure
Update	Discard	14	Exchange ID has failed(5)	5:Move1	1:Tsa1_test		2020/10/21 09:41:13	Data portability procedure
Update	Discard	15	1:Operation1	10:Conductor1	1:Tsa1_test		2020/11/10 16:14:08	Data portability procedure
Update	Discard	16	8:OP1	11:MV1	1:Tsa1_test		2020/11/19 10:53:52	System Administrator
Update	Discard	17	9:operation	12:move1	1:Tsa1_test		2020/12/02 16:14:26	System Administrator
Update	Discard	18	9:operation	7:Set Timezone	1:Tsa1_test		2020/12/03 11:53:05	System Administrator
Update	Discard	19	9:operation	8:Set Hostname	1:Tsa1_test		2020/12/03 11:53:25	System Administrator

Substitution value list

Update	Discard	Item No.	Operation	Movement	Host	Variable name	Specific value	Substitution order	Remarks	Last update date/time	Last updated by
Update	Discard	1	1:Operation1	1:Legacy1	1:Tsa1_test	1:VAR_dir_name	/root/test			2020/09/02 18:20:07	Data portability procedure
Update	Discard	2	1:Operation1	1:Legacy1	1:Tsa1_test	2:VAR_owner	root			2020/09/02 18:20:19	Data portability procedure
Update	Discard	3	1:Operation1	1:Legacy1	1:Tsa1_test	3:VAR_group	root			2020/09/02 18:20:35	Data portability procedure
Update	Discard	4	1:Operation1	1:Legacy1	1:Tsa1_test	4:VAR_mode	0755			2020/09/02 18:20:46	Data portability procedure
Update	Discard	7	Exchange ID has failed(5)	5:Move1	1:Tsa1_test	9:VAR_DIRECTORY	testdirectory			2020/10/21 09:42:23	Data portability procedure
Update	Discard	8	8:OP1	11:MV1	1:Tsa1_test	12:VAR_directory	/tmp/work1			2020/11/19 10:57:36	System Administrator
Update	Discard	9	9:operation	12:move1	1:Tsa1_test	13:VAR_DIRECTORY	testdirectory			2020/12/02 16:44:10	System Administrator

3.5 Conductor execution

Execute Conductor

Execute Conductor again. Ensure that the work is reflected only on the host "webC".

Menu: **Conductor > Conductor execution**

1 Select "Server basic setting" from the Conductor list.

Select	Conductor class ID	Conductor name	Explanation	Remarks	Last update date/time	Last updated by
<input type="radio"/>	1	Server basic setting			2020/09/02 10:28:03	Data portability procedure
<input type="radio"/>	2	Test			2020/10/06 09:26:00	Data portability procedure
<input type="radio"/>	4	Kato TEST1004			2020/11/04 15:16:16	Data portability procedure
<input type="radio"/>	5	conductor1			2020/11/10 16:26:42	Data portability procedure

Filter result count: 4

2 Select Operation "Basic setting all".

Select	No.	Operation ID	Operation name	Scheduled date for execution	Last execution date	Remarks	Last update date/time	Last updated by
<input type="radio"/>	1	1	Operation1	2020/08/27 16:15	2020/12/04 09:21		09:21:54	Legacy execution procedure
<input type="radio"/>	2	2	Test Operation	2020/10/06 10:00	2020/10/23 16:21		06:21:05	Legacy execution procedure
<input type="radio"/>	6	6	Basic settings all	2020/10/24 09:54		Test for Host group menu	09:54:53	Data portability procedure
<input type="radio"/>	7	7	ope1	2020/11/10 14:00			14:00:49	Data portability procedure
<input type="radio"/>	8	8	OP1	2020/11/21 09:20				

3 Click "Execution" at the bottom of the screen.

Tips After execution, the screen will transition to the "Conductor Confirmation" screen. The more information about the Result Confirmation screen, please see this from earlier.

Exastro



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