



IT Automation

Host group management Menu creation 【Practice】

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

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1. Introduction

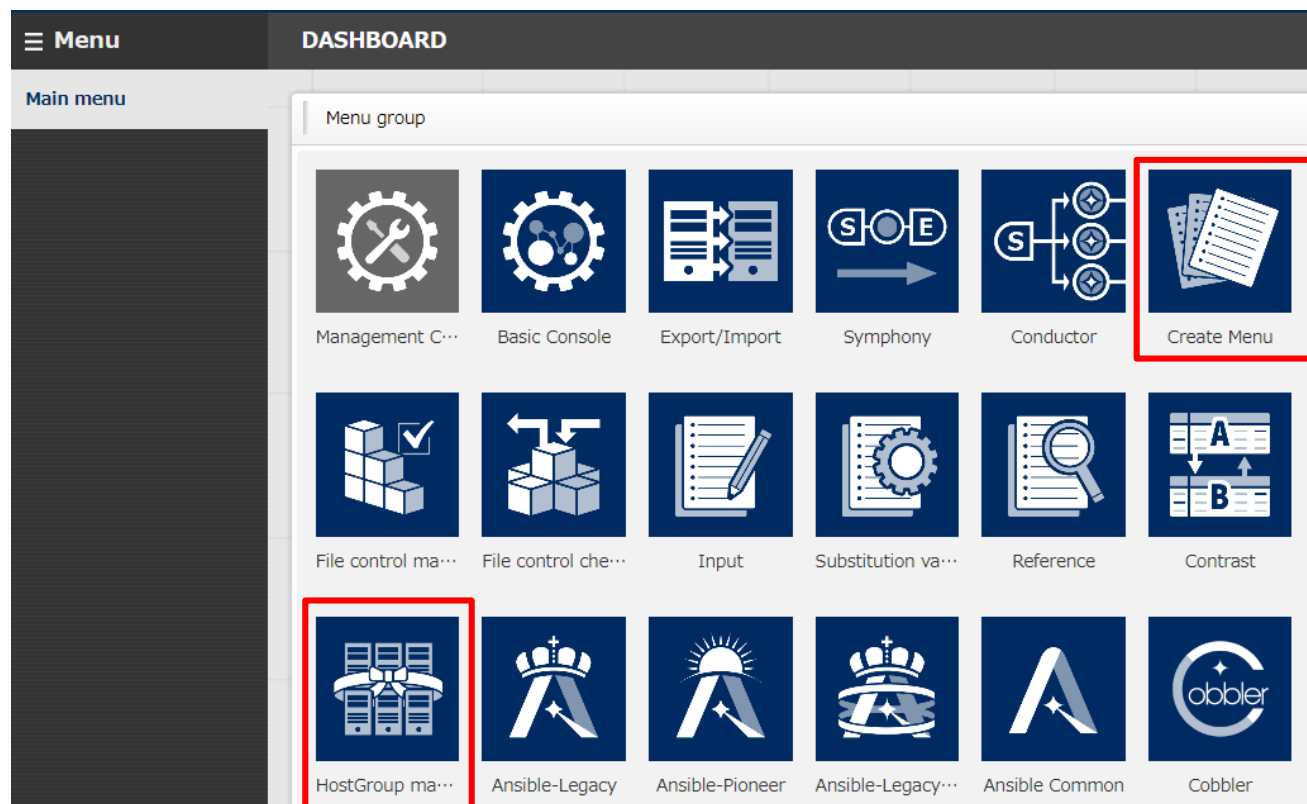
1.1 About this document

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

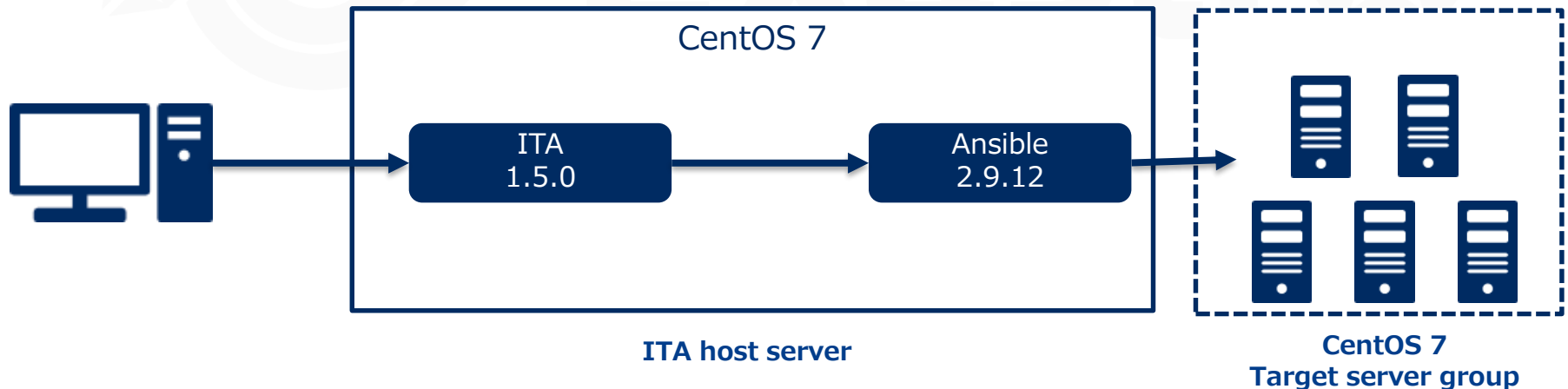
The work environment used in this document is as follows. Please prepare **5 servers** in addition to the ITA Host server.(※1)The additional servers will be for operations.

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.

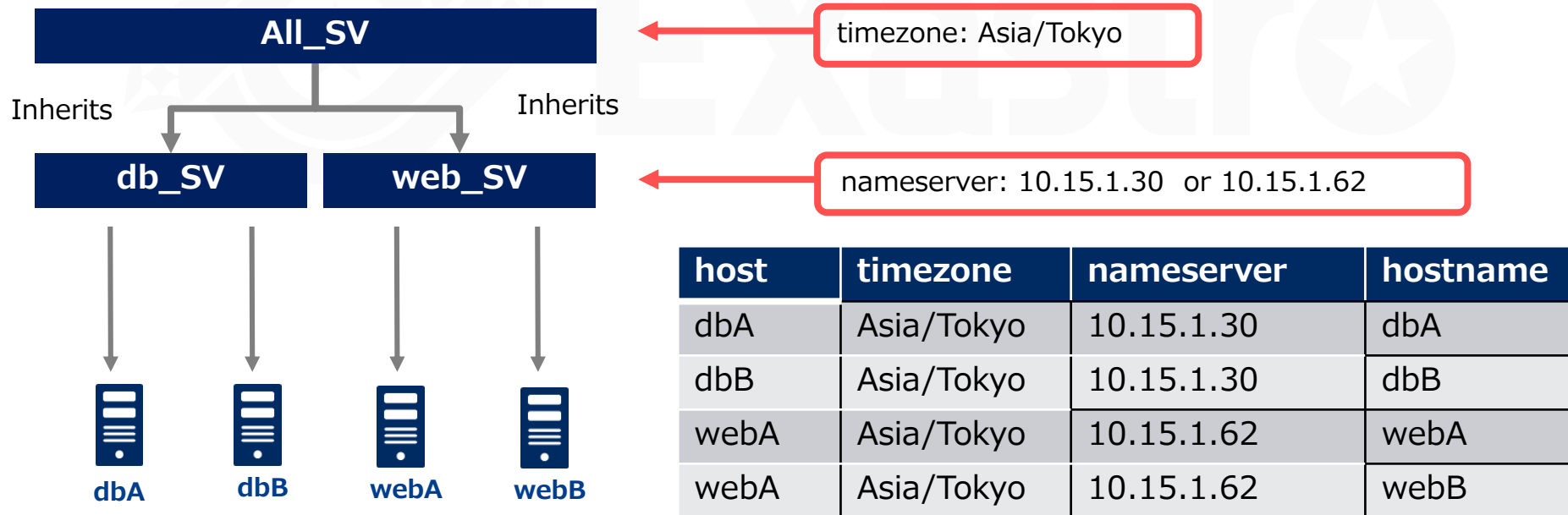
※3 Any OS compatible with Ansible can be used.

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 additional server

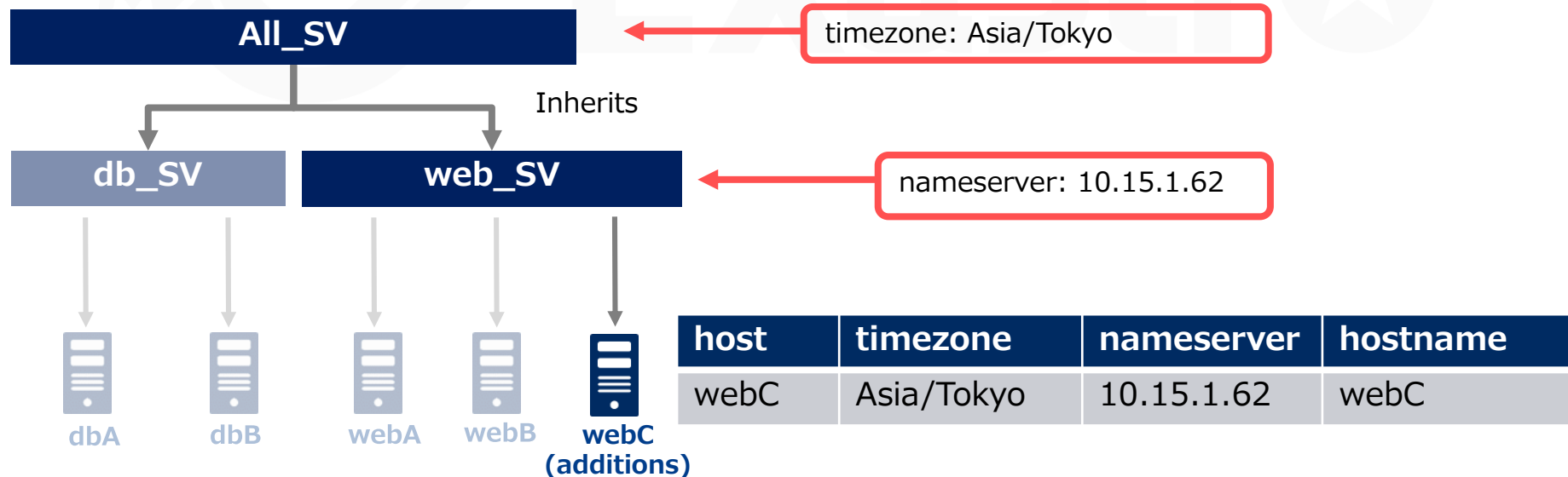
This scenario assumes that the operation done in the previous section is completed.
If the playbook is idempotent,

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.

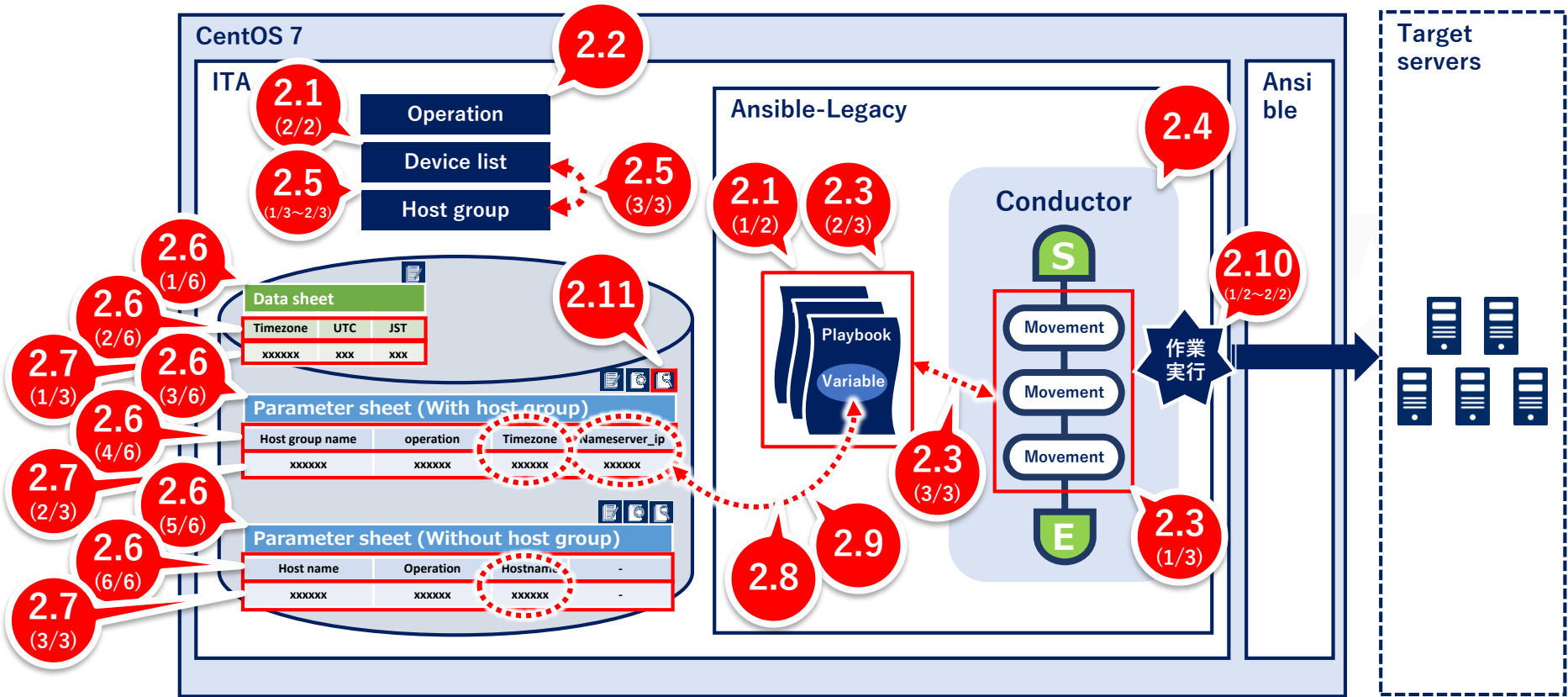
The contents of the Conductor that is going to get executed are the same as the ones in scenario 1.



2. Practice Scenario 1

Scenario 1 - Overview

The diagram below displays Scenario 1's procedure.



2.1 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 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".

The screenshot shows a registration form with the following sections and fields:

- EtherwakeOnlan**
 - MAC address
 - Network device name
- Login password**
 - Login user ID
 - Management
 - Login password
- Ansible Dedicated information**
 - Dedicated information for Legacy/Role
 - Authentication method
 - WinRM connection information
 - Port no
 - Server certificate

Buttons: Choose File, No file chosen, Upload in advance. Upload status:

Item	HW Device type	Host name	IP Address	Login user ID	Manage ment	Login password	Authentication method
Server1	SV	webA	Target device IP Address	(Input free value)	●	(Input free value)	Password authentication
Server2		webB					
Server3		dbA					
Server4		dbB					
Server5		webC					

2.2 Operation registration

Register new operation

Create operation

Menu : Basic Console > 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

Basic settings all

Scheduled date for execution

(Enter free 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 to 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 main workspace with a sequence of nodes (Start, Set Timezone, Set Hostname, Add Nameserver, End) connected by lines. A right-hand panel shows the 'Conductor' configuration and a list of 'Movements'. A bottom-left button is labeled 'Registration'.

1 Input Conductor name.

2 Add the required Movement by dragging and dropping.

3 Connect nodes to each others.

4 Click "Registration".

Movement	Order
Set Timezone	1
Add Nameserver	2
Set Hostname	3

Conductor name
Server basic setting

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 management**

- 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.

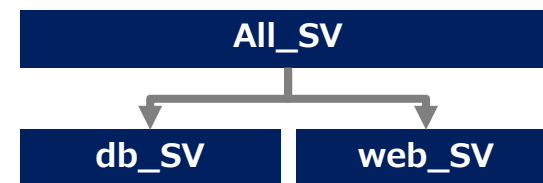
Menu : **Host group management > Host group parent-child link list**

- 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" value="Auto-input"/>	<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**

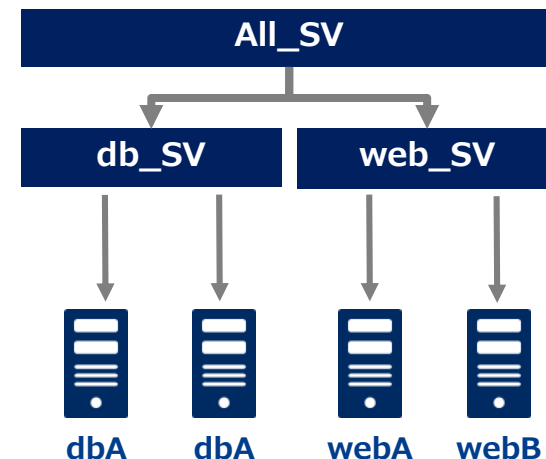
- ① Click Register > Start Registration.
- ② Select the following information for each item and click "Register".

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	Basic settings all	webA
web_SV	Basic settings all	webB
db_SV	Basic settings all	dbA
db_SV	Basic settings all	dbB

Image



2.6 Menu list(1/6)

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" and then select "Input".

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
Display order	1

2.6 Menu list(2/6)

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 'Create/Define menu' dialog box with three columns for 'Timezone', 'UTC', and 'JST'. Each column has a 'String' input method, a 'Maximum number of bytes' of 32, and 'Required' and 'Unique constraint' checkboxes. The 'Required' checkbox is checked for 'Timezone' and 'UTC', and the 'Unique constraint' checkbox is checked for 'Timezone'. The 'JST' column has 'Required' and 'Unique constraint' checkboxes that are unchecked. A blue circle with the number 1 points to the 'Item' button, and a blue circle with the number 2 points to the 'Unique constraint' checkbox.

The screenshot shows the 'List(Preview)' dialog box with a table containing three rows of data. The table has columns for 'No.', 'Timezone', 'UTC', 'JST', 'Remark', and 'Last Mod'. The 'Create' button is highlighted with a red box, and a blue circle with the number 3 points to it.

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

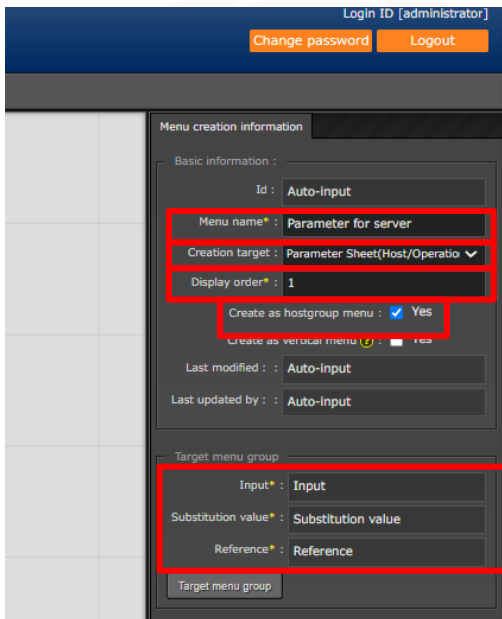
2.6 Menu list(3/6)

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 Leave the Target Menu group as it is with its default values. (Input, Substitution value and Reference)



The screenshot shows the 'Menu creation information' form. The 'Basic information' section is highlighted with a red box and contains the following fields: 'Menu name*' (Parameter for server), 'Creation target*' (Parameter Sheet(Host/Operation)), 'Display order*' (1), 'Create as hostgroup menu' (checked Yes), 'Create as vertical menu' (unchecked No), 'Last modified' (Auto-Input), and 'Last updated by' (Auto-Input). The 'Target menu group' section is also highlighted with a red box and contains the following fields: 'Input*' (Input), 'Substitution value*' (Substitution value), and 'Reference*' (Reference). A blue arrow points from the 'Basic information' section to the table on the right.

Item name	Input content
Manu name	Parameter for server
Creation target	Parameter sheet (Host/Operation)
Display order	1
Create as Hostgroup menu	✓

2.6 Menu list(4/6)

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 image shows three screenshots illustrating the steps to define items in the 'Create/Define menu' interface.

Step 1: The 'Item' button is highlighted with a red box and a blue circle containing the number 1. The 'Timezone' and 'Nameserver' items are shown with their respective input methods and constraints.

Step 2: The 'Reference item select' dialog is shown, with the 'UTC' and 'JST' items selected. A blue arrow points from the 'Select a reference item' button in the 'Timezone' item configuration to this dialog.

Step 3: The 'Create' button is highlighted with a red box and a blue circle containing the number 3. The 'List(Preview)' table is also visible, showing the items defined.

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

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

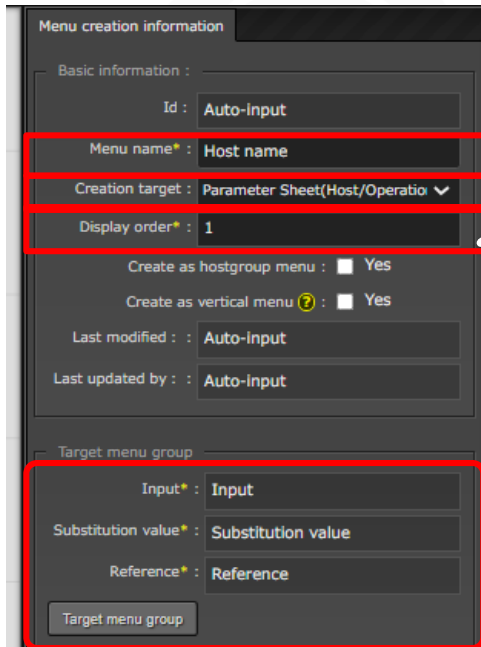
2.6 Menu list(5/6)

Create menu without 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 Leave the Target Menu group as it is with its default values. (Input, Substitution value and Reference)



Menu creation information

Basic information :

Id : Auto-Input

Menu name* : Host name

Creation target* : Parameter Sheet(Host/Operation)

Display order* : 1

Create as hostgroup menu : ☐ Yes

Create as vertical menu ? : ☐ Yes

Last modified : Auto-Input

Last updated by : Auto-Input

Target menu group

Input* : Input

Substitution value* : Substitution value

Reference* : Reference

Target menu group

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

2.6 Menu list(6/6)

Define the item name of the parameters sheet

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

- 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.

Item

Repeat

Cancel

Redo

Host name

String

Maximum number of bytes* 32

Regular expression

☐ Required ☐ Unique constraint

Explanation

Remark

Preview

Log

List(Preview)

No	Host name	Operation	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

Create

Item name	Input method	Maximum number of bytes
Hostname	String	32

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: **Input> Time zone list**

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

Register

No	Timezone*	UTC	JST	Access permission		Remarks	Last update date/time	Last updated by
				Setting	Role to allow access			
Auto-input	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Setting"/>			Auto-input	Auto-input

※*is a required item.

Timezone	UTC	JST
Asia/Tokyo	+9	0
America/New_York	-4	-13

2.7 Data registration(2/3)

Register data to the parameter sheet

Move to the created menu and input the data.

Menu: **Input> Parameter for server**

- 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	Timezone	Parameter
		Operation		port_to_open Nameserver_ip
Auto-inc	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

After registering, we can see both of the reference items, UTC and JST

History	Update	Discard	No	Host name/Host group name	Timezone	Parameter
History	Update	Discard	1	[HG]All_SV	Asia/Tokyo	UTC JST
History	Update	Discard	2	[HG]web_SV	Asia/Tokyo	+9 0
History	Update	Discard	3	[HG]db_SV	Asia/Tokyo	+9 0

Point

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

Host name/Host group name	Operation	Timezone	Nameserver
[HG]All_SV	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: **Input> 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 Operation*	Parameter Host name
Auto-input	<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	IaC 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"/>		

Parameter sheet (from) -Menu group:Menu	Parameter sheet (from) -Item	Registration method	IaC Variable (to) -Movement	IaC variable (to) - Value variable -Variable name
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/Substitution value list**

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

History	Update	Discard	Item No.	Operation	Movement	Host	Substitution value management	Access permission	Remarks	Last update date/time	Last updated by
History	Update	Discard	218	Basic settings all 11: Set Timezone	4: webA		Substitution value management	Role to allow access		2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	318	Basic settings all 11: Set Timezone	5: webB		Substitution value management			2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	418	Basic settings all 11: Set Timezone	6: dbA		Substitution value management			2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	518	Basic settings all 11: Set Timezone	7: dbB		Substitution value management			2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	618	Basic settings all 14: Add Nameserver	4: webA		Substitution value management			2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	718	Basic settings all 14: Add Nameserver	5: webB		Substitution value management			2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	818	Basic settings all 14: Add Nameserver	6: dbA		Substitution value management			2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	918	Basic settings all 14: Add Nameserver	7: dbB		Substitution value management			2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	1018	Basic settings all 13: Set Hostname	4: webA		Substitution value management			2021/06/17 17:13:55	Legacy substitution value auto-registration sett
History	Update	Discard	1118	Basic settings all 13: Set Hostname	5: webB		Substitution value management			2021/06/17 17:13:55	Legacy substitution value auto-registration sett
History	Update	Discard	1218	Basic settings all 13: Set Hostname	6: dbA		Substitution value management			2021/06/17 17:13:55	Legacy substitution value auto-registration sett
History	Update	Discard	1318	Basic settings all 13: Set Hostname	7: dbB		Substitution value management			2021/06/17 17:13:55	Legacy substitution value auto-registration sett

Target host

History	Update	Discard	Item No.	Operation	Movement	Host	Variable name	Sensitive setting	Specific value	Subs	Last update date/time	Last updated by
History	Update	Discard	318	Basic settings all 12: Set Timezone	4: webA		3: VAR_locale_timezone	OFF	Asia/Tokyo		2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	418	Basic settings all 12: Set Timezone	5: webB		3: VAR_locale_timezone	OFF	Asia/Tokyo		2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	518	Basic settings all 12: Set Timezone	6: dbA		3: VAR_locale_timezone	OFF	Asia/Tokyo		2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	618	Basic settings all 12: Set Timezone	7: dbB		3: VAR_locale_timezone	OFF	Asia/Tokyo		2021/06/17 17:12:38	Legacy substitution value auto-registration sett
History	Update	Discard	718	Basic settings all 14: Add Nameserver	4: webA		5: VAR_hostname	OFF	10.15.1.62		2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	818	Basic settings all 14: Add Nameserver	5: webB		5: VAR_hostname	OFF	10.15.1.62		2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	918	Basic settings all 14: Add Nameserver	6: dbA		5: VAR_hostname	OFF	10.15.1.38		2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	1018	Basic settings all 14: Add Nameserver	7: dbB		5: VAR_hostname	OFF	10.15.1.38		2021/06/17 17:13:11	Legacy substitution value auto-registration sett
History	Update	Discard	1118	Basic settings all 13: Set Hostname	4: webA		4: VAR_nameserver_ip	OFF	webA		2021/06/17 17:13:55	Legacy substitution value auto-registration sett
History	Update	Discard	1218	Basic settings all 13: Set Hostname	5: webB		4: VAR_nameserver_ip	OFF	webB		2021/06/17 17:13:55	Legacy substitution value auto-registration sett
History	Update	Discard	1318	Basic settings all 13: Set Hostname	6: dbA		4: VAR_nameserver_ip	OFF	dbA		2021/06/17 17:13:55	Legacy substitution value auto-registration sett
History	Update	Discard	1418	Basic settings all 13: Set Hostname	7: dbB		4: VAR_nameserver_ip	OFF	dbB		2021/06/17 17:13:55	Legacy substitution value auto-registration sett

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**

The screenshot shows the 'Conductor execution' menu path. It includes a 'Conductor [List]' table with 4 items, an 'Operation [List]' table with 8 items, and an 'Execution' button at the bottom. Callouts 1, 2, and 3 guide the user through selecting 'Server basic setting', 'Basic settings all', and clicking 'Execution' respectively. A tip box states that the screen will automatically change to the 'Conductor Confirmation' screen after executing.

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			2020/10/08 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

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		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	2020/11/10 14:00				

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

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

Execution

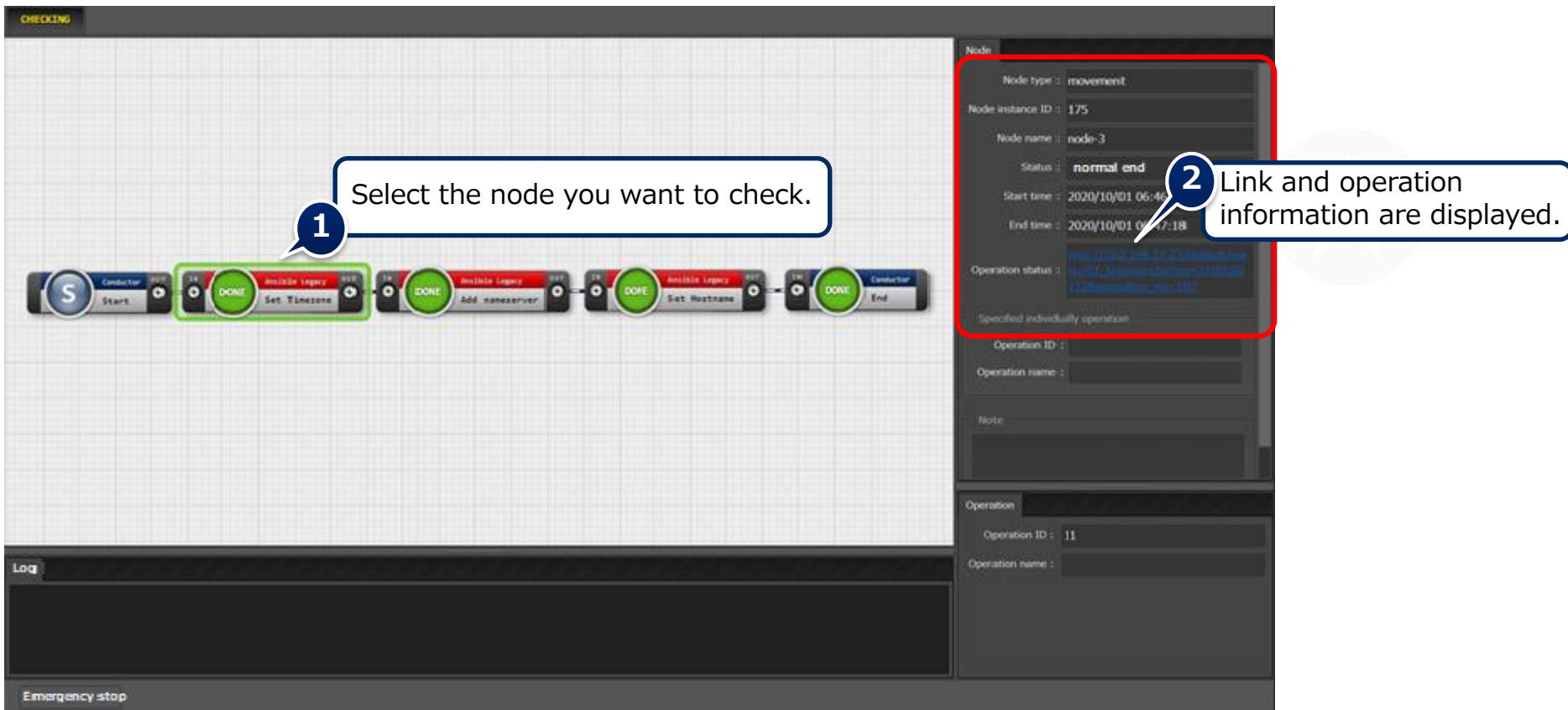
2.10 Conductor execution(2/2)

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)

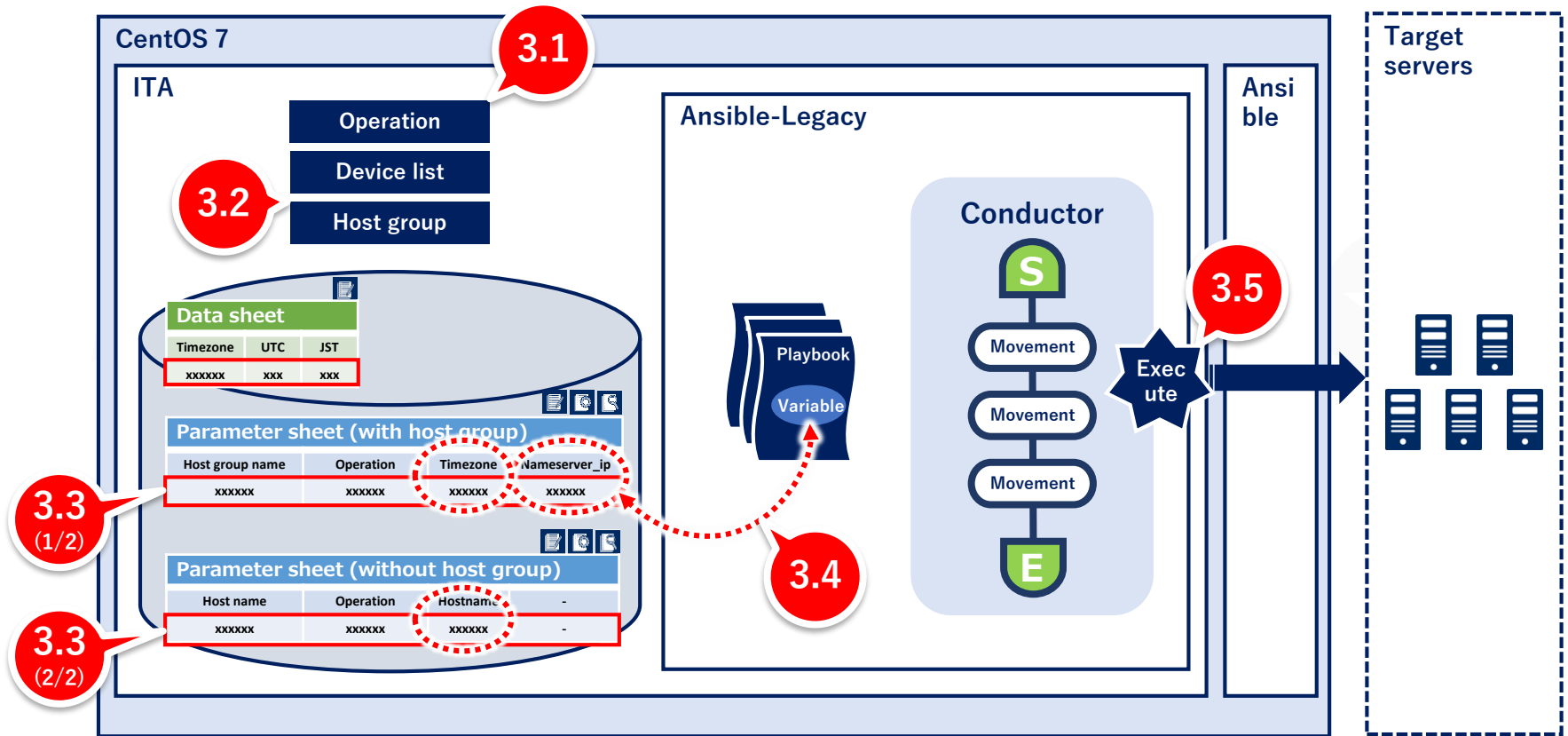
- ① Click "Filter".
- ② Confirm that the "Reference date/time" and "Last update date/time" are updated.

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	192.168.1.101	2	Test Operation	2020/10/23 16:21	2020/10/08 10:00	2020/10/23 16:21	/tmp/work2	root	root	0	2020/12/07 10:51:36	System Administrator
Update	Discard	2	192.168.1.101	9	operation	2020/12/03 15:50	2020/12/18 16:03	2020/12/03 15:50	/tmp/work2	root	root	0	2020/12/07 10:55:44	System Administrator
Update	Discard	3	192.168.1.101	1	Operation1	2020/12/04 09:21	2020/08/27 16:15	2020/12/04 09:21	/tmp/work2	root	root	0	2020/12/07 10:57:33	System Administrator

3. Practice Scenario 2

Scenario 2 - Overview

The diagram below displays Scenario 1's procedure.



3.1 Operation registration

Register new operation

Create an additional operation.

Menu : **Basic Console > 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.

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

- ① 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"/>

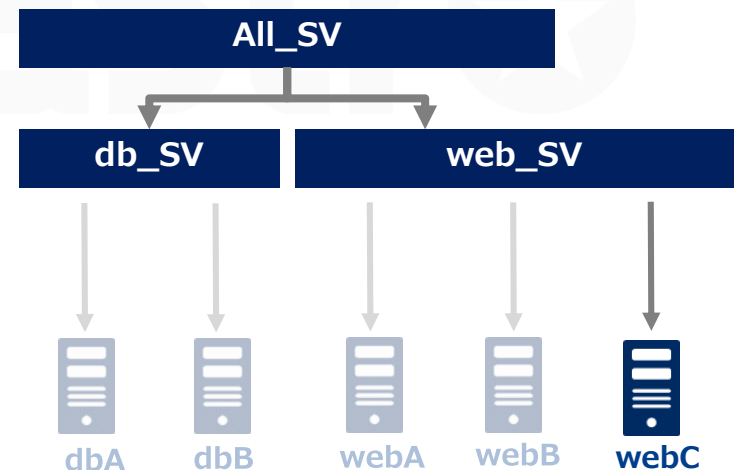
※* is a required item.

Host group name	Operation	Host name
web_SV	Basic settings additional server only	webC

Point

The host group, "web_SV" is used for "Basic settings all servers", but this time, we are only adding the operation "Basic settings additional server only". That is why when we are executing the operation, only webC will be applicable.

Image



3.3 Data registration(1/2)

Register data in the parameter sheet

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

Menu: **Input>Parameter for server**

- 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"/>

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: **Input > 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 /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

History	Update	Discard	Item No. ⚙	Operation ⚙	Movement ⚙	Host ⚙	Substitution value management	Access perm
								Role to allow
History	Update	Discard	14	19:Basic settings Additional server only 12:Set Timezone	8:webC	Substitution value management		
History	Update	Discard	15	19:Basic settings Additional server only 14:Add Nameserver	8:webC	Substitution value management		
History	Update	Discard	16	19:Basic settings Additional server only 13:Set Hostname	8:webC	Substitution value management		

Substitution value list

History	Update	Discard	Item No. ⚙	Operation ⚙	Movement ⚙	Host ⚙	Variable name ⚙	Sensitive setting ⚙	Spec
History	Update	Discard	15	19:Basic settings Additional server only 12:Set Timezone	8:webC	3:VAR_locale_timezone	OFF		Asia/
History	Update	Discard	16	19:Basic settings Additional server only 14:Add Nameserver	8:webC	5:VAR_hostname	OFF		10.15
History	Update	Discard	17	19:Basic settings Additional server only 13:Set Hostname	8:webC	4:VAR_nameserver_ip	OFF		webC

3.5 Conductor execution

Execute Conductor

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

Menu: **Conductor > Conductor execution**

The screenshot shows the 'Conductor execution' screen. On the left is a 'Menu' sidebar with options: Main menu, Conductor interface information, Conductor class list, Conductor class edit, Conductor execution (highlighted), Conductor confirmation, Conductor list, and Conductor Regularly execution. The main area has a top section with a 'Conductor [List]' button and a table of conductor classes. A callout '1' points to the 'Server basic setting' row. Below this is an 'Operation [List]' button and a table of operations. A callout '2' points to the 'Basic settings all' row. At the bottom, a callout '3' points to the 'Execution' button. A 'Tips' box on the right states: 'After execution, the screen will transition to the "Conductor Confirmation" screen. The more information about the Result Confirmation screen, please see this from earlier.'

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			2020/10/08 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

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	2020/10/08 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.

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