



User instruction manual
Ansible-driver
Attachment Ansible usage
guidelines
ITA additon rules

—Version 1.4—

Copyright © NEC Corporation 2019. All rights reserved.

Disclaimer

All the contents of this document are protected by copyright owned by NEC Corporation
Unauthorized reproduction or copying of all or part of the contents of this document is prohibited
The contents of this document are subject to change without prior notice in the future.
NEC Corporation is not responsible for any technical or editorial errors or omissions in this document.
NEC Corporation do not guarantee accuracy, usability, certainty of the content in this document.

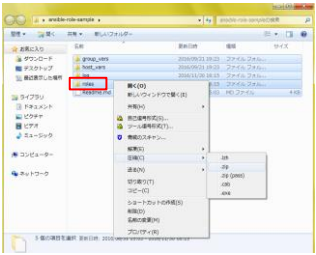
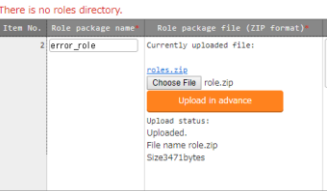
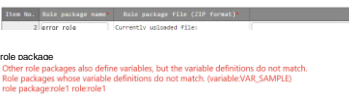
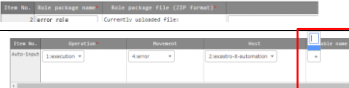

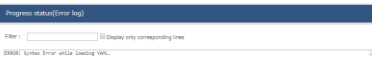
Trademark

- Linux is registered trademark or trademark of Linus Torvalds, registered in the United States. and other countries.
- Red Hat is registered trademark or trademark of Red Hat, Inc., registered in the United States. and other countries.
- Apache, Apache Tomcat, Tomcat are registered trademarks or trademarks of Apache Software Foundation.
- Ansible is a registered trademark or trademark of Red Hat, Inc.

The names of other systems, company name and products mentioned in this document are registered trademarks or trademarks of their respective companies.

The © mark and TM mark is not specified in this document.

※「Exastro IT Automation」is written as「ITA」in this document.

| No. | Item | Applicable Mode | | | Examples that can be imported to ITA | Examples that cannot be imported to ITA | The affected function if the rule is not followed | Effect | Error display example |
|-----|---|-----------------|------|---------|---|---|---|---|---|
| | | Legacy | Role | Pioneer | | | | | |
| 8 | For the role package file to be uploaded to Ansible-Legacy/Role console, please prepare the zip file that is compressed from the directory of the hierarchy level which contains "roles" directory. (refer to the example on the right) | x | ○ | x |  | - No roles directory xxxxxx/Ansible/main.yml xxxxxx/defaults/main.yml | Role package list | Warning displays during 'upload in advance' |  |
| 9 | Notes when defining array variable in the default variable definition file of each role - Single role package - If the same variable name is used between roles but the definition of the member variable in that array variable is different - If the same variable name is used between roles but the variable type contains array variable and normal variable =>Error occurs during upload - All role packages - If the same variable name is used between role packages but the definition of the member variable in that array variable is different - If the same variable name is used between role packages but array variable and normal variable are mixed. =>Variable names will not be displayed in substitution list menu | x | ○ | x | Refer to the another sheet "Notes when defining array variable" | Refer to the another sheet "Notes when defining array variable" | - Single role package Role package list - All role package substitution value list | - Single role package Role package can't be registered - All role package Value can't be set for array variables Execute with the value defined in role package | - Single role package The definitions of variables registered in the variable definition file in the role do not match. Variable (VAR_SAMPLE) Role name roles/role1 roles/role2 - All role package Other role packages also define variables, but the variable definitions do not match. Role packages whose variable definitions do not match, (variable VAR_SAMPLE) role package/role1 role/role1   |
| 10 | - When using array variable, please describe the main.yml in the defaults directory referring the example on the right. ※At least 1 line must be defined. | x | ○ | x | <pre>【defaults/main.yml】 VAR_01: - { VAR_SAMPLE_01: "001", VAR_SAMPLE_02: "002" } - { VAR_SAMPLE_01: "101", VAR_SAMPLE_02: "102" }</pre> | <pre>【defaults/main.yml】 VAR_01:</pre> | substitution value list | Setting value for member variable is not available because the variable is not recognized as array variable. The "Member variable undefined" error occurs during operation execution |  |
| 11 | Adjust the indent into multiple of 2 according to the basic format of construction code. | ○ | ○ | ○ | -△name: Allocate service script △△template: △△△src: "{{ item.src }}" △△△dest: "{{ item.dest }}" ~omitted~ △.half-width space | -△name: Allocate service script △△template: △△△src: "{{ item.src }}" △△△dest: "{{ item.dest }}" ~omitted~ △.half-width space | Execution | The "Member variable undefined" error occurs during operation execution |  |

Notes when defining array variable

| No. | Role package | roles | defaults/main.yml | Function s | Content |
|-----|--------------|-------|--|------------|---|
| 1 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | ○ | <ul style="list-style-type: none"> • Variable names are the same • Definition of the member variables in the array variable are the same • Description order of member variables are the same |
| | | B | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | | |
| 2 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | ○ | <ul style="list-style-type: none"> • Variable names are the same • Definition of the member variables in the array variable are the same • Description order of member variables are different |
| | | B | VAR_SAMPLE: - { VAR_002: "bbbb" , VAR_001: "aaaa" } | | |
| 3 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | × | <ul style="list-style-type: none"> • Variable names are the same • Definition of the member variables in the array variable are different |
| | | B | VAR_SAMPLE: - { VAR_003: "aaaa" , VAR_004: "bbbb" } | | |
| 4 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | × | <ul style="list-style-type: none"> • Variable names are the same • Some of the variable are array variable while others are normal variable |
| | | B | VAR_SAMPLE: aaaa | | |
| 5 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | ○ | <ul style="list-style-type: none"> • Variable names are the same • Definition of the member variables in the array variable are the same • Description order of member variables are the same |
| | Sample02 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | | |
| 6 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | ○ | <ul style="list-style-type: none"> • Variable names are the same • Definition of the member variables in the array variable are the same • Description order of member variables are different |
| | Sample02 | A | VAR_SAMPLE: - { VAR_002: "bbbb" , VAR_001: "aaaa" } | | |
| 7 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | × | <ul style="list-style-type: none"> • Variable names are the same • Definition of the member variables in the array variable are different |
| | Sample02 | A | VAR_SAMPLE: - { VAR_003: "aaaa" , VAR_004: "bbbb" } | | |
| 8 | Sample01 | A | VAR_SAMPLE: - { VAR_001: "aaaa" , VAR_002: "bbbb" } | × | <ul style="list-style-type: none"> • Variable names are the same • Some of the variable are array variable while others are normal variable |
| | Sample02 | A | VAR_SAMPLE: aaaa | | |

Example of Ansible's Role application that can be imported in ITA.

| No. | Variable | module/contents | operation contents | directory/file | | |
|-----|-----------------|-----------------|---|---|---|--|
| | | | | defaults/main.yml | tasks/main.yml | templates/※※※.txt |
| 1 | normal variable | with_items | with_item module using normal variable | VAR_test: SAMPLE | - name: check file content shell: cat /tmp/{{ item }} with_items: - "{{ VAR_SAMPLE }}" | - |
| 2 | normal variable | if | if syntax using normal variable | VAR_SAMPLE: True | - name: allocate the template which uses array variable template: src=var_array_sample.txt dest=/tmp/※※※.txt | {% if VAR_SAMPLE is defined and VAR_SAMPLE == True %} The desired output character {% endif %} |
| 3 | array variable | with_items | with_item module using array variable | VAR_SAMPLE: - { VAR_001: "aaaa", VAR_002: "bbbb" } - { VAR_001: "cccc", VAR_002: "dddd" } - { VAR_001: "eeee", VAR_002: "ffff" } | - name: check file content shell: cat /tmp/{{ item.VAR_001 }} with_items: - "{{ VAR_SAMPLE }}" - name: check file content shell: cat /tmp/{{ item.VAR_002 }} with_items: - "{{ VAR_SAMPLE }}" | - |
| 4 | array variable | for | for syntax using array variable | VAR_SAMPLE: - { VAR_001: "aaaa", VAR_002: "bbbb" } - { VAR_001: "cccc", VAR_002: "dddd" } - { VAR_001: "eeee", VAR_002: "ffff" } | - name: allocate the template which uses array variable template: src=var_array_sample.txt dest=/tmp/※※※.txt | {% for tmp_SAMPLE in VAR_SAMPLE %} {{ tmp_SAMPLE.VAR_001 }} {{ tmp_SAMPLE.VAR_002 }} {% endfor %} |
| 5 | array variable | for if | loop control with for syntax and if syntax using array variable | VAR_SAMPLE: - { VAR_01: 1, VAR_02: 001 } - { VAR_01: 0, VAR_02: 002 } - { VAR_01: 1, VAR_02: 003 } | - name: Example of loop and conditional branching application shell: {% for tmp_SAMPLE in VAR_SAMPLE %} {% if tmp_SAMPLE.VAR_01 == 1 %} echo {{ tmp_SAMPLE.VAR_02 }} {% else %} true {% endif %} {% endfor %} | - |
| 6 | array variable | for if | loop control with for syntax and if syntax using array variable | VAR_SAMPLE: - { VAR_01: 1, VAR_02: 001 } - { VAR_01: 0, VAR_02: 002 } - { VAR_01: 1, VAR_02: 003 } | - name: allocate the template which uses array variable template: src=var_array_sample.txt dest=/tmp/※※※.txt | {% for tmp_SAMPLE in VAR_SAMPLE %} {% if tmp_SAMPLE.VAR_01 == 1 %} echo {{ tmp_SAMPLE.VAR_02 }} {% else %} true {% endif %} {% endfor %} |