Using Variables

Ansible uses variables to manage differences between systems. With Ansible, you can execute tasks and playbooks on multiple different systems with a single command. To represent the variations among those different systems, you can create variables with standard YAML syntax, including lists and dictionaries. You can define these variables in your playbooks, in your ref: inventory <intro_inventory>`, in re-usable ref: files <playbooks_reuse>` or ref: roles <playbooks_reuse_roles>`, or at the command line. You can also create variables during a playbook run by registering the return value or values of a task as a new variable.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel)\(docs)\(docsite\) (rst) (user_guide)\playbooks_variables.rst, line 7); backlink
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```

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After you create variables, either by defining them in a file, passing them at the command line, or registering the return value or values of a task as a new variable, you can use those variables in module arguments, in ref: conditional "when" statements <playbooks_conditionals>', in ref: templates <playbooks_templating>', and in ref: loops <playbooks_loops>'. The ansible-examples github repository contains many examples of using variables in Ansible.

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Once you understand the concepts and examples on this page, read about ref. Ansible facts <vars_and_facts>`, which are variables you retrieve from remote systems.

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Creating valid variable names

Not all strings are valid Ansible variable names. A variable name can only include letters, numbers, and underscores. Python keywords or ref: playbook keywords playbook_keywords are not valid variable names. A variable name cannot begin with a number.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel)\(docs)\(docsite\) (rst) (user_guide)\playbooks_variables.rst, line 21); backlink
Unknown interpreted text role "ref".
```

Variable names can begin with an underscore. In many programming languages, variables that begin with an underscore are private. This is not true in Ansible. Variables that begin with an underscore are treated exactly the same as any other variable. Do not rely on this convention for privacy or security.

This table gives examples of valid and invalid variable names:

Valid variable names	Not valid
foo	*foo, Python keywords such as async and lambda
foo_env	ref`playbook keywords <playbook_keywords>`such as environment</playbook_keywords>
	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)(docs)(docsite)(rst)(user_guide)(playbooks_variables.rst, line 36); backlink
	Unknown interpreted text role 'ref'.
foo_port	foo-port, foo port, foo.port
foo5,_foo	5foo, 12

Simple variables

```
System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 47); backlink
Unknown interpreted text role "ref".
```

Defining simple variables

You can define a simple variable using standard YAML syntax. For example:

```
remote_install_path: /opt/my_app_config
```

Referencing simple variables

After you define a variable, use Jinja2 syntax to reference it. Jinja2 variables use double curly braces. For example, the expression My amp goes to $\{\{\text{max_amp_value }\}\}\$ demonstrates the most basic form of variable substitution. You can use Jinja2 syntax in playbooks. For example:

```
ansible.builtin.template:
    src: foo.cfg.j2
    dest: '{{ remote_install_path }}/foo.cfg'
```

In this example, the variable defines the location of a file, which can vary from one system to another.

Note

Ansible allows Jinja2 loops and conditionals in ref":templates playbooks templating but not in playbooks. You cannot create a loop of tasks. Ansible playbooks are pure machine-parseable YAML.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docsite) (rst) (user_guide) playbooks_variables.rst, line 73); backlink
Unknown interpreted text role "ref".
```

When to quote variables (a YAML gotcha)

If you start a value with $\{\{foo\}\}\$, you must quote the whole expression to create valid YAML syntax. If you do not quote the whole expression, the YAML parser cannot interpret the syntax - it might be a variable or it might be the start of a YAML dictionary. For guidance on writing YAML, see the ref. yaml_syntax documentation.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 80); backlink
Unknown interpreted text role "ref".
```

If you use a variable without quotes like this:

```
- hosts: app_servers
vars:
    app_path: {{ base_path }}/22
```

You will see: ERROR! Syntax Error while loading YAML. If you add quotes, Ansible works correctly:

```
- hosts: app_servers
vars:
    app_path: "{{ base_path }}/22"
```

List variables

A list variable combines a variable name with multiple values. The multiple values can be stored as an itemized list or in square brackets [], separated with commas.

Defining variables as lists

You can define variables with multiple values using YAML lists. For example:

```
region:
- northeast
- southeast
- midwest
```

Referencing list variables

When you use variables defined as a list (also called an array), you can use individual, specific fields from that list. The first item in a list is item 0, the second item is item 1. For example:

```
region: "{{ region[0] }}"
```

The value of this expression would be "northeast".

Dictionary variables

A dictionary stores the data in key-value pairs. Usually, dictionaries are used to store related data, such as the information contained in an ID or a user profile.

Defining variables as key:value dictionaries

You can define more complex variables using YAML dictionaries. A YAML dictionary maps keys to values. For example:

```
foo:
field1: one
field2: two
```

Referencing key:value dictionary variables

When you use variables defined as a key-value dictionary (also called a hash), you can use individual, specific fields from that dictionary using either bracket notation or dot notation:

```
foo('field1')
foo.field1
```

Both of these examples reference the same value ("one"). Bracket notation always works. Dot notation can cause problems because some keys collide with attributes and methods of python dictionaries. Use bracket notation if you use keys which start and end with two underscores (which are reserved for special meanings in python) or are any of the known public attributes:

add, append, as_integer_ratio, bit_length, capitalize, center, clear, conjugate, copy, count, decode, denominator, difference, difference_update, discard, encode, endswith, expandtabs, extend, find, format, fromhex, fromkeys, get, has_key, hex, imag, index, insert, intersection, intersection_update, isalnum, isalpha, isdecimal, isdigit, isdisjoint, is_integer, islower, isnumeric, isspace, issubset, issuperset, istitle, isupper, items, iteritems, iterkeys, itervalues, join, keys, ljust, lower, lstrip, numerator, partition, pop, popitem, real, remove, replace, reverse, rfind, rindex, rjust, rpartition, rsplit, rstrip, setdefault, sort, split, splitlines, startswith, strip, swapcase, symmetric_difference, symmetric_difference_update, title, translate, union, update, upper, values, viewitems, viewkeys, viewvalues, zfill.

Registering variables

You can create variables from the output of an Ansible task with the task keyword register. You can use registered variables in any later tasks in your play. For example:

```
- hosts: web_servers

tasks:
    - name: Run a shell command and register its output as a variable
    ansible.builtin.shell: /usr/bin/foo
    register: foo_result
    ignore_errors: true
    - name: Run a shell command using output of the previous task
    ansible.builtin.shell: /usr/bin/bar
    when: foo_result.rc == 5
```

For more examples of using registered variables in conditions on later tasks, see ref": playbooks_conditionals. Registered variables may be simple variables, list variables, dictionary variables, or complex nested data structures. The documentation for each module includes a RETURN section describing the return values for that module. To see the values for a particular task, run your playbook with -v.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 182); backlink

Unknown interpreted text role "ref".

Registered variables are stored in memory. You cannot cache registered variables for use in future plays. Registered variables are only valid on the host for the rest of the current playbook run.

Registered variables are host-level variables. When you register a variable in a task with a loop, the registered variable contains a value for each item in the loop. The data structure placed in the variable during the loop will contain a results attribute, that is a list of all responses from the module. For a more in-depth example of how this works, see the ref: playbooks_loops' section on using register with a loop.

```
System Message: ERROR/3 (b:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)(docs)(docsite)(rst)(user_guide)playbooks_variables.rst, line 186); backlink
Unknown interpreted text role 'ref'.
```

Note

If a task fails or is skipped, Ansible still registers a variable with a failure or skipped status, unless the task is skipped based on tags. See ref. tags' for information on adding and using tags.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 188); backlink
Unknown interpreted text role "ref".
```

Referencing nested variables

Many registered variables (and ref facts \sim vars_and_facts \sim) are nested YAML or JSON data structures. You cannot access values from these nested data structures with the simple {{ foo}}} syntax. You must use either bracket notation or dot notation. For example, to reference an IP address from your facts using the bracket notation:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 195); backlink
Unknown interpreted text role "ref".
```

```
{{ ansible_facts["eth0"]["ipv4"]["address"] }}
```

To reference an IP address from your facts using the dot notation:

```
{{ ansible_facts.eth0.ipv4.address }}
```

Transforming variables with Jinja2 filters

Jinja2 filters let you transform the value of a variable within a template expression. For example, the <code>capitalize</code> filter capitalizes any value passed to it; the <code>to_yaml</code> and <code>to_json</code> filters change the format of your variable values. Jinja2 includes many built-in filters and Ansible supplies many more filters. To find more examples of filters, see <code>ref:playbooks_filters</code>.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel)\(docs)\(docsite\) (rst) (user_guide) playbooks_variables.rst, line 213); backlink
Unknown interpreted text role "ref".
```

Where to set variables

You can define variables in a variety of places, such as in inventory, in playbooks, in reusable files, in roles, and at the command line. Ansible loads every possible variable it finds, then chooses the variable to apply based on ref: variable precedence rules ansible_variable_precedence.

```
System Message: ERROR/3 (b:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 220); backlink
Unknown interpreted text role "ref".
```

Defining variables in inventory

You can define different variables for each individual host, or set shared variables for a group of hosts in your inventory. For example, if all machines in the [Boston] group use 'boston.ntp.example.com' as an NTP server, you can set a group variable. The ref: intro_inventory' page has details on setting ref: host variables <host_variables>` and ref: group variables <group_variables>` in inventory

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 227); backlink
Unknown interpreted text role "ref".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 227); backlink
```

Unknown interpreted text role "ref".

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 227); backlink
Unknown interpreted text role "ref".
```

Defining variables in a play

You can define variables directly in a playbook play:

```
- hosts: webservers
vars:
http_port: 80
```

When you define variables in a play, they are only visible to tasks executed in that play.

Defining variables in included files and roles

You can define variables in reusable variables files and/or in reusable roles. When you define variables in reusable variable files, the sensitive variables are separated from playbooks. This separation enables you to store your playbooks in a source control software and even share the playbooks, without the risk of exposing passwords or other sensitive and personal data. For information about creating reusable files and roles, see reuse.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)(docs)(docsite)(rst)(user_guide)(playbooks_variables.rst, line 250); backlink
Unknown interpreted text role "ref".
```

This example shows how you can include variables defined in an external file:

```
---
- hosts: all
remote_user: root
vars:
    favcolor: blue
vars files:
    - /vars/external_vars.yml

tasks:
- name: This is just a placeholder
    ansible.builtin.command: /bin/echo foo
```

The contents of each variables file is a simple YAML dictionary. For example:

```
# in the above example, this would be vars/external_vars.yml somevar: somevalue password: magic
```

Note

You can keep per-host and per-group variables in similar files. To learn about organizing your variables, see ref'splitting_out_vars'.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 280); backlink
Unknown interpreted text role "ref".
```

Defining variables at runtime

You can define variables when you run your playbook by passing variables at the command line using the <code>--extra-vars</code> (or <code>-e</code>) argument. You can also request user input with a <code>vars_prompt</code> (see ref. playbooks_prompts). When you pass variables at the command line, use a single quoted string, that contains one or more variables, in one of the formats below.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\(ansible-devel) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 287); backlink
Unknown interpreted text role "ref".
```

key=value format

Values passed in using the key=value syntax are interpreted as strings. Use the JSON format if you need to pass non-string values such as Booleans, integers, floats, lists, and so on.

```
ansible-playbook release.yml --extra-vars "version=1.23.45 other_variable=foo"
```

JSON string format

```
ansible-playbook release.yml --extra-vars '{"version":"1.23.45","other_variable":"foo"}'
ansible-playbook arcade.yml --extra-vars '{"pacman":"mrs","ghosts":["inky","pinky","clyde","sue"]}'
```

When passing variables with --extra-vars, you must escape quotes and other special characters appropriately for both your markup (for example, JSON), and for your shell:

```
ansible-playbook arcade.yml --extra-vars "{\"name\":\"Conan O\'Brien\"}"
```

```
ansible-playbook arcade.yml --extra-vars '{"name":"Conan O'\\\''Brien"}' ansible-playbook script.yml --extra-vars "{\"dialog\":\"He said \\\"I just can\'t get enough of those single and double-or the control of the c
```

If you have a lot of special characters, use a JSON or YAML file containing the variable definitions.

vars from a JSON or YAML file

```
ansible-playbook release.yml --extra-vars "@some_file.json"
```

Variable precedence: Where should I put a variable?

You can set multiple variables with the same name in many different places. When you do this, Ansible loads every possible variable it finds, then chooses the variable to apply based on variable precedence. In other words, the different variables will override each other in a certain order.

Teams and projects that agree on guidelines for defining variables (where to define certain types of variables) usually avoid variable precedence concerns. We suggest that you define each variable in one place: figure out where to define a variable, and keep it simple. For examples, see ref" variable examples.

```
System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 331); backlink
Unknown interpreted text role "ref".
```

Some behavioral parameters that you can set in variables you can also set in Ansible configuration, as command-line options, and using playbook keywords. For example, you can define the user Ansible uses to connect to remote devices as a variable with ansible_user, in a configuration file with DEFAULT_REMOTE_USER, as a command-line option with -u, and with the playbook keyword remote_user. If you define the same parameter in a variable and by another method, the variable overrides the other setting. This approach allows host-specific settings to override more general settings. For examples and more details on the precedence of these various settings, see ref; general precedence rules.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)(docs)(docsite)(rst)(user_guide)) playbooks_variables.rst, line 333); backlink
Unknown interpreted text role "ref".
```

Understanding variable precedence

Ansible does apply variable precedence, and you might have a use for it. Here is the order of precedence from least to greatest (the last listed variables override all other variables):

- command line values (for example, -u my_user, these are not variables)
- 2. role defaults (defined in role/defaults/main.yml) [1]
- 3. inventory file or script group vars [2]
- 4. inventory group_vars/all [3]
- 5. playbook group_vars/all [3]6. inventory group_vars/* [3]
- 7. playbook group_vars/* [3]
- 8. inventory file or script host vars [2]
- 9. inventory host_vars/* [3]
- 10. playbook host_vars/* [3]
- 11. host facts / cached set_facts [4]
- 12. play vars
- play vars_prompt
- 14. play vars_files
- 15. role vars (defined in role/vars/main.yml)
- 16. block vars (only for tasks in block)
- 17. task vars (only for the task)
- 18. include_vars
- 19. set_facts / registered vars
- 20. role (and include_role) params
- 21. include params
- 22. extra vars (for example, -e "user=my_user")(always win precedence)

In general, Ansible gives precedence to variables that were defined more recently, more actively, and with more explicit scope. Variables in the defaults folder inside a role are easily overridden. Anything in the vars directory of the role overrides previous versions of that variable in the namespace. Host and/or inventory variables override role defaults, but explicit includes such as the vars directory or an include_vars task override inventory variables.

Ansible merges different variables set in inventory so that more specific settings override more generic settings. For example, ansible_ssh_user specified as a group_var is overridden by ansible_user specified as a host_var. For details about the precedence of variables set in inventory, see ref" how_we_merge.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 365); backlink
Unknown interpreted text role "ref".
```

Footnotes

- [1] Tasks in each role see their own role's defaults. Tasks defined outside of a role see the last role's defaults.
- [2] (1,2) Variables defined in inventory file or provided by dynamic inventory.
- [3] (1,2,3,4,5,6) Includes vars added by 'vars plugins' as well as host_vars and group_vars which are added by the default vars plugin shipped with Ansible.
- [4] When created with set_facts's cacheable option, variables have the high precedence in the play, but are the same as a host

facts precedence when they come from the cache.

Note

Within any section, redefining a var overrides the previous instance. If multiple groups have the same variable, the last one loaded wins. If you define a variable twice in a play's vars: section, the second one wins.

Note

The previous describes the default config hash behaviour=replace, switch to merge to only partially overwrite.

Scoping variables

You can decide where to set a variable based on the scope you want that value to have. Ansible has three main scopes:

- · Global: this is set by config, environment variables and the command line
- · Play: each play and contained structures, vars entries (vars; vars files; vars prompt), role defaults and vars.
- Host: variables directly associated to a host, like inventory, include_vars, facts or registered task outputs

Inside a template, you automatically have access to all variables that are in scope for a host, plus any registered variables, facts, and magic variables.

Tips on where to set variables

You should choose where to define a variable based on the kind of control you might want over values.

Set variables in inventory that deal with geography or behavior. Since groups are frequently the entity that maps roles onto hosts, you can often set variables on the group instead of defining them on a role. Remember: child groups override parent groups, and host variables override group variables. See ref'define variables in inventory' for details on setting host and group variables.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 400); backlink
Unknown interpreted text role "ref".
```

Set common defaults in a <code>group_vars/all</code> file. See <code>ref</code> splitting_out_vars` for details on how to organize host and group variables in your inventory. Group variables are generally placed alongside your inventory file, but they can also be returned by dynamic inventory (see <code>ref</code>: intro_dynamic_inventory') or defined in AWX or on <code>ref</code>: ansible_platform' from the UI or API:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 402); backlink
Unknown interpreted text role "ref".
```

Unknown interpreted text role 'ref'.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide)playbooks_variables.rst, line 402); backlink
```

Unknown interpreted text role 'ref'.

```
# file: /etc/ansible/group_vars/all
# this is the site wide default
ntp_server: default-time.example.com
```

Set location-specific variables in <code>group_vars/my_location</code> files. All groups are children of the all group, so variables set here override those set in <code>group_vars/all</code>:

```
# file: /etc/ansible/group_vars/boston
ntp_server: boston-time.example.com
```

If one host used a different NTP server, you could set that in a host vars file, which would override the group variable:

```
# file: /etc/ansible/host_vars/xyz.boston.example.com
ntp_server: override.example.com
```

Set defaults in roles to avoid undefined-variable errors. If you share your roles, other users can rely on the reasonable defaults you added in the roles/x/defaults/main.yml file, or they can easily override those values in inventory or at the command line. See ref: playbooks_reuse_roles' for more info. For example:

```
System Message: ERROR/3 (D:\onboarding-resources\ample-onboarding-resources\ansible-devel\docs\docsite\rst\user\_guide\ (ansible-devel) (docs) (docsite) (rst) (user\_guide) playbooks\_variables.rst, line 427); backlink
```

Unknown interpreted text role 'ref'.

```
# file: roles/x/defaults/main.yml
# if no other value is supplied in inventory or as a parameter, this value will be used
http_port: 80
```

Set variables in roles to ensure a value is used in that role, and is not overridden by inventory variables. If you are not sharing your

role with others, you can define app-specific behaviors like ports this way, in roles/x/vars/main.yml. If you are sharing roles with others, putting variables here makes them harder to override, although they still can by passing a parameter to the role or setting a variable with -e:

```
# file: roles/x/vars/main.yml
# this will absolutely be used in this role
http_port: 80
```

Pass variables as parameters when you call roles for maximum clarity, flexibility, and visibility. This approach overrides any defaults that exist for a role. For example:

```
roles:
- role: apache
vars:
http_port: 8080
```

When you read this playbook it is clear that you have chosen to set a variable or override a default. You can also pass multiple values, which allows you to run the same role multiple times. See ref_run_role_twice for more details. For example:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 454); backlink
Unknown interpreted text role "ref".
```

```
roles:
- role: app_user
    vars:
        myname: Ian
- role: app_user
    vars:
        myname: Terry
- role: app_user
    vars:
        myname: Graham
- role: app_user
    vars:
        myname: John
```

Variables set in one role are available to later roles. You can set variables in a roles/common_settings/vars/main.yml file and use them in other roles and elsewhere in your playbook:

```
roles:
    - role: common settings
    - role: something
    vars:
        foo: 12
        - role: something_else
```

Note

There are some protections in place to avoid the need to namespace variables. In this example, variables defined in 'common_settings' are available to 'something' and 'something_else' tasks, but tasks in 'something' have foo set at 12, even if 'common_settings' sets foo to 20.

Instead of worrying about variable precedence, we encourage you to think about how easily or how often you want to override a variable when deciding where to set it. If you are not sure what other variables are defined, and you need a particular value, use --extra-vars (-e) to override all other variables.

Using advanced variable syntax

For information about advanced YAML syntax used to declare variables and have more control over the data placed in YAML files used by Ansible, see ref playbooks_advanced_syntax.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\user_guide\((ansible-devel)\) (docs) (docsite) (rst) (user_guide) playbooks_variables.rst, line 491); backlink
Unknown interpreted text role "ref".
```

```
System\,Message:\,ERROR/3\,(\text{D:}\nonlinegresources}) sample-onboarding-resources \verb|\ansible-onboarding-resources|| and the statement of the control of the c
devel\docs\docsite\rst\user_guide\(ansible-devel) (docs) (docsite) (rst)
 (user_guide)playbooks_variables.rst, line 493)
Unknown directive type "seealso".
             .. seealso::
                          :ref:`about_playbooks`
                                        An introduction to playbooks
                          :ref:`playbooks_conditionals
                                        Conditional statements in playbooks
                          :ref:`playbooks_filters
                                        Jinja2 filters and their uses
                         :ref:`playbooks loops
                                        Looping in playbooks
                          :ref:`playbooks reuse roles
                                         Playbook organization by roles
                         :ref:`playbooks_best_practices`
    Tips and tricks for playbooks
                         :ref:`special_variables`
  List of special variables
                           `User Mailing List <a href="https://groups.google.com/group/ansible-devel">https://groups.google.com/group/ansible-devel</a>
                          Have a question? Stop by the google group! :ref:`communication irc`
                                        How to join \overline{\text{Ansible}} chat channels
```