## **Templating (Jinja2)**

Ansible uses Jinja2 templating to enable dynamic expressions and access to ref. variables <playbooks\_variables> and ref. facts <vars\_and\_facts> . You can use templating with the ref. template module <template\_module> . For example, you can create a template for a configuration file, then deploy that configuration file to multiple environments and supply the correct data (IP address, hostname, version) for each environment. You can also use templating in playbooks directly, by templating task names and more. You can use all the ref. standard filters and tests < jinja2:builtin-filters> included in Jinja2. Ansible includes additional specialized filters for selecting and transforming data, tests for evaluating template expressions, and ref. lookup\_plugins for retrieving data from external sources such as files, APIs, and databases for use in templating.

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All templating happens on the Ansible controller **before** the task is sent and executed on the target machine. This approach minimizes the package requirements on the target (jinja2 is only required on the controller). It also limits the amount of data Ansible passes to the target machine. Ansible passes templates on the controller and passes only the information needed for each task to the target machine, instead of passing all the data on the controller and parsing it on the target.

## Note

Files and data used by the ref template module template module must be utf-8 encoded.

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## • Get the current time

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Unknown directive type "toctree".

```
... toctree::
    :maxdepth: 2

playbooks_filters
playbooks_tests
playbooks_lookups
playbooks_python_version
```

## Get the current time

```
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_templating.rst, line 31)
Unknown directive type "versionadded".
.. versionadded:: 2.8
```

The now () Jinja2 function retrieves a Python datetime object or a string representation for the current time.

The now () function supports 2 arguments:

11tc

Specify True to get the current time in UTC. Defaults to False.

fint

Accepts a strftime string that returns a formatted date time string.

```
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devel\docs\docsite\rst\user_guide\[ansible-devel][docs][docsite][rst]
 [user_guide]playbooks_templating.rst, line 44)
Unknown directive type "seealso".
              .. seealso::
                          :ref:`playbooks_intro`
                                         An introduction to playbooks
                          :ref:`playbooks_conditionals`
                                          Conditional statements in playbooks
                          :ref:`playbooks loops
                                          Looping in playbooks
                          :ref:`playbooks reuse roles`
                                         Playbook organization by roles
                          :ref:`playbooks best practices`
                                         Tips and tricks for playbooks
                           `Jinja2 Docs <a href="https://jinja.palletsprojects.com/en/latest/templates/">https://jinja.palletsprojects.com/en/latest/templates/</a>>`
                                      Jinja2 documentation, includes the syntax and semantics of the templates
                           `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 Ansible chat channels
```