Should you develop a module?

Developing Ansible modules is easy, but often it is not necessary. Before you start writing a new module, ask:

1. Does a similar module already exist?

An existing module may cover the functionality you want. Ansible collections include thousands of modules. Search our ref. list of included collections < list_of_collections > or Ansible Galaxy to see if an existing module does what you need.

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2. Should you use or develop an action plugin instead of a module?

An action plugin may be the best way to get the functionality you want. Action plugins run on the control node instead of on the managed node, and their functionality is available to all modules. For more information about developing plugins, read the ref: 'developing plugins page <developing plugins>'.

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3. Should you use a role instead of a module?

A combination of existing modules may cover the functionality you want. You can write a role for this type of use case. Check out the ref. roles documentation playbooks reuse roles.

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4. Should you create a collection instead of a single module?

The functionality you want may be too large for a single module. If you want to connect Ansible to a new cloud provider, database, or network platform, you may need to ref developing modules in groups.

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- Each module should have a concise and well defined functionality. Basically, follow the UNIX philosophy of doing one thing
 well.
- A module should not require that a user know all the underlying options of an API/tool to be used. For instance, if the legal values for a required module parameter cannot be documented, that's a sign that the module would be rejected.
- Modules should typically encompass much of the logic for interacting with a resource. A lightweight wrapper around an API
 that does not contain much logic would likely cause users to offload too much logic into a playbook, and for this reason the
 module would be rejected. Instead try creating multiple modules for interacting with smaller individual pieces of the API.

If your use case isn't covered by an existing module, an action plugin, or a role, and you don't need to create multiple modules, then you're ready to start developing a new module. Choose from the topics below for next steps:

• I want to ref get started on a new module <developing modules generab.

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• I want to review ref. tips and conventions for developing good modules developing modules best practices.

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• I want to ref. write a Windows module <developing modules general windows>'.

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• I want ref. an overview of Ansible's architecture < developing program flow modules>.

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• I want to ref. document my module <developing modules documenting>.

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I want to rref: contribute my module to an existing Ansible collection <developing modules checklist>'.

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• I want to ref. add unit and integration tests to my module <developing testing>'.

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• I want to ref. add Python 3 support to my module <developing python 3>'.

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• I want to ref. write multiple modules <developing modules in groups>'.

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