
ansible-hiera-data Documentation

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USER DOCUMENTATION

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ANSIBLE HIERADATA

This collection provides plugins to manage your project configuration data in a hierarchical manner like [puppet](#) do.

1.1 Installation

The collection is available via [Ansible Galaxy](#). So you can run

```
ansible-galaxy collection install codeaffen.hieradata
```

Alternatively you can build and install the collection from source.

```
make dist
ansible-galaxy collection install codeaffen-hieradata-<version>.tar.gz
```

1.2 Configuraton

1.2.1 vars plugin configuration

The plugin comes with useful defaults to start to use the hieradata vars plugin without any configuration.

But if you need to customize the configuration you can see in [documentation](#) you can configure the vars plugin either via `ansible.cfg` parameter in section `hieradata` or via environment variables.

You have to keep in mind that the paths for `basedir` and `config` are relative to your inventory or playbook directory, depending of the selected stage. Without any configuration you have to place the `basedir` and `config` as followed.

```
.
├── ansible.cfg
├── hieradata
├── hieradata.yml
└── hosts
```

If you want to use a different base then `hieradata` you can override it by exporting `HIERADATA_BASE_DIR` environment variable. This directory also has to belongs to inventory dirctory.

```
.
├── ansible.cfg
├── inventory
│   ├── hieradata
│   │   └── customer_a
│   ├── hieradata.yml
│   └── hosts
```

In this example you need to do `export HIERADATA_BASE_DIR=hieradata/customer_a` if you want to use `hieradata/customer_a` as hiera basedir.

1.3 Documentation

1.3.1 readthedocs.io

Current documentation can be found on readthedocs.io.

1.3.2 repository folder

A last option to read the docs is the docs folder in this repository.

1.4 Dependencies

The following dependencies have to be fulfilled by the Ansible controller.

- ...

1.5 Need help?

If you've found any issues in this release please head over to github and open a bug so we can take a look.

CODEAFFEN.HIERADATA RELEASE NOTES

Topics

- *codeaffen.hieradata Release Notes*
 - *v0.1.0*
 - * *Minor Changes*
 - *v0.0.1*
 - * *New Plugins*
 - *Vars*

2.1 v0.1.0

2.1.1 Minor Changes

- Add a wrapper function *combine_vars* to be compatible to default ansible.
- Add configuration parameters to manage hash and list behavior.
- Add method to parse configuration file (e.g. hieradata.yml).
- After loading, the vars will be combined with ansible functions.
- Change parameter names. Remove prefix to make documentation more clear.
- If last part is directory it can have no, one or multiple files in it.
- Last part of hierarchy can be file or directory.
- Load files from hierarchy.
- Parse entity name into *hiera_vars* dict.
- The *hiera_vars* dict can be used to generate a dynamic hierarchy.
- These function takes two extra parameters *hash_behavior* and *list_behavior* to configure this feature as needed.

2.2 v0.0.1

2.2.1 New Plugins

Vars

- `codeaffen.hieradata.hieradata` - Loads configuration from a hierarchical configuration structure structure

CODEAFFEN.HIERADATA

Collection version 0.1.0

3.1 Plugin Index

These are the plugins in the codeaffen.hieradata collection

3.1.1 Lookup Plugins

- *list* – simply returns what it is given.
- *lookup* – prints debug text

3.1.2 Vars Plugins

- *hieradata* – Loads configuration from a hierarchical configuration structure

See also:

List of collections with docs hosted here.

codeaffen.hieradata.list – simply returns what it is given.

Note: This plugin is part of the [codeaffen.hieradata collection](#) (version 0.1.0).

To install it use: `ansible-galaxy collection install codeaffen.hieradata`.

To use it in a playbook, specify: `codeaffen.hieradata.list`.

New in version 0.0.2: of codeaffen.hieradata

- *Synopsis*
 - *Examples*
 - *Return Values*

Synopsis

- this is mostly a noop, to be used as a `with_list` loop when you dont want the content transformed in any way.

Examples

```
- name: unlike with_items you will get 3 items from this loop, the 2nd one being a list
debug: var=item
with_list:
  - 1
  - [2,3]
  - 4
```

Return Values

Common return values are documented here, the following are the fields unique to this lookup:

Authors

- Christian Meißner <cme+codeaffen@meissner.sh>

codeaffen.hieradata.lookup – prints debug text

Note: This plugin is part of the `codeaffen.hieradata` collection (version 0.1.0).

To install it use: `ansible-galaxy collection install codeaffen.hieradata`.

To use it in a playbook, specify: `codeaffen.hieradata.lookup`.

New in version 0.0.2: of `codeaffen.hieradata`

- *Synopsis*

Synopsis

- This lookup returns nothing but a text to stderr

Authors

- Christian Meißner <cme+codeaffen@meissner.sh>

codeaffen.hieradata.hieradata – Loads configuration from a hierarchical configuration structure

Note: This plugin is part of the `codeaffen.hieradata` collection (version 0.1.0).

To install it use: `ansible-galaxy collection install codeaffen.hieradata`.

To use it in a playbook, specify: `codeaffen.hieradata.hieradata`.

New in version 0.0.1: of codeaffen.hieradata

- *Synopsis*
- *Requirements*
- *Parameters*
- *Examples*

Synopsis

- Loads YAML vars into corresponding hierarchy directories/files.
- Loads only files with extension to one of .yaml, .json, .yml or no extension.
- Starting in 0.0.1, this plugin requires explicit whitelisting via `vars_plugins_enabled`.

Requirements

The below requirements are needed on the local controller node that executes this vars.

- whitelist in configuration

Parameters

Examples

```
# hieradata.yml.
# Each level in hierarchy can be a file or a directory.
hiera_vars:
  role: "{{ entity.name.split('-').0 }}"
  env:  "{{ entity.name.split('-').2 }}"
hierarchy:
  - common
  - "{{ env }}"
  - "{{ role }}"
  - "{{ role }}-{{ env }}"
```

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```
# hieradata organized with sub directories.  
# Last part of path of each level can be a file or a directory.  
hiera_vars:  
  role: "{{ entity.name.split('-').0 }}"  
  env:  "{{ entity.name.split('-').2 }}"  
hieradata:  
  hierarchy:  
    - common  
    - "environments/{{ env }}"  
    - "roles/{{ role }}"  
    - "roles/{{ role }}-{{ env }}"
```

FILTERS

Filters are used to manipulate data if needed.

4.1 <filter_name>

<!-- Filter description -->

since version: <SemVer_string>

<!-- example code -->

HOW TO CONTRIBUTE TO ANSIBLE-HIERA-DATA

5.1 Did you found a bug

- Make sure the bug is not already opened by another user.
- If you can't find an open issue which reflects your observed problem go ahead and [open a new bug](#).
- Provide as much information as mentioned in the bug report template.

5.2 Did you wrote a patch for an open bug

- Open new pull request containing the patch.
- Provide a clear description which describes the problem and the solution. Link the existing bug to the PR.

5.3 Do you want to add a new feature

- Make sure there isn't already a feature request.
- If you can't find an open feature request which describe your feature idea or parts of it feel free to [open a new feature request](#).
- Suggest your feature idea within the created feature request.
- Provide as much discription as possible to enable others to have a good understanding of what you are doing.
- Point out that you want to start to work on the new feature

5.4 Do you want to contribute to documentation

- Write you documentation change.
- Open a PR with your change.
- Discuss with the team about your changes.

5.5 Thank you for any contribution

We will thank you for heed the contribution guidelines and we encourage you to contribute and join the team.

INDICES AND TABLES

- `genindex`
- `search`