Ansible 2.9 Porting Guide

This section discusses the behavioral changes between Ansible 2.8 and Ansible 2.9.

It is intended to assist in updating your playbooks, plugins and other parts of your Ansible infrastructure so they will work with this version of Ansible.

We suggest you read this page along with Ansible Changelog for 2.9 to understand what updates you may need to make.

This document is part of a collection on porting. The complete list of porting guides can be found at :ref:`porting guides <porting_guides>`.

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Topics

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Playbook

Inventory

- `hash_behaviour` now affects inventory sources. If you have it set to `merge`, the data you get from inventory might change and you will have to update playbooks accordingly. If you're using the default setting (`overwrite`), you will see no changes. Inventory was ignoring this setting.

Loops

Ansible 2.9 handles "unsafe" data more robustly, ensuring that data marked "unsafe" is not templated. In previous versions, Ansible recursively marked all data returned by the direct use of `lookup()` as "unsafe", but only marked structured data returned by indirect lookups using `with_X` style loops as "unsafe" if the returned elements were strings. Ansible 2.9 treats these two approaches consistently.

As a result, if you use `with_dict` to return keys with templatable values, your templates may no longer work as expected in Ansible 2.9.

To allow the old behavior, switch from using `with_X` to using `loop` with a filter as described at :ref:`migrating_to_loop`.

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Command Line

- The location of the Galaxy token file has changed from `~/.ansible_galaxy` to `~/.ansible/galaxy_token`. You can configure both path and file name with the :ref:`galaxy_token_path` config.

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Deprecated

No notable changes

Collection loader changes

The way to import a PowerShell or C# module util from a collection has changed in the Ansible 2.9 release. In Ansible 2.8 a util was imported with the following syntax:

```
#AnsibleRequires -CSharpUtil AnsibleCollections.namespace name.collection name.util filename
#AnsibleRequires -PowerShell AnsibleCollections.namespace_name.collection_name.util_filename
```

In Ansible 2.9 this was changed to:

```
#AnsibleRequires -CSharpUtil ansible collections.namespace name.collection name.plugins.module utils.util filename
#AnsibleRequires -PowerShell ansible_collections.namespace_name.collection_name.plugins.module_utils.util_filename
```

The change in the collection import name also requires any C# util namespaces to be updated with the newer name format. This is more verbose but is designed to make sure we avoid plugin name conflicts across separate plugin types and to standardise how imports work in PowerShell with how Python modules work.

Modules

- The `win_get_url` and `win_uri` module now sends requests with a default `User-Agent` of `ansible-httpget`. This can be changed by using the `http_agent` key.
- The `apt` module now honors `update_cache=false` while installing its own dependency and skips the cache update. Explicitly setting `update_cache=true` or omitting the param `update_cache` will result in a cache update while installing its own dependency.
- Version 2.9.12 of Ansible changed the default mode of file-based tasks to `0o600 & ~umask` when the user did not specify a

`mode` parameter on file-based tasks. This was in response to a CVE report which we have reconsidered. As a result, the mode change has been reverted in 2.9.13, and mode will now default to `0o666 & ~umask` as in previous versions of Ansible.

- If you changed any tasks to specify less restrictive permissions while using 2.9.12, those changes will be unnecessary (but will do no harm) in 2.9.13.
- To avoid the issue raised in CVE-2020-1736, specify a `mode` parameter in all file-based tasks that accept it.
- dnf and yum - As of version 2.9.13, the `dnf` module (and `yum` action when it uses `dnf`) now correctly validates GPG signatures of packages (CVE-2020-14365). If you see an error such as `Failed to validate GPG signature for [package name]`, please ensure that you have imported the correct GPG key for the DNF repository and/or package you are using. One way to do this is with the `rpm_key` module. Although we discourage it, in some cases it may be necessary to disable the GPG check. This can be done by explicitly adding `disable_gpg_check: yes` in your `dnf` or `yum` task.

Renaming from `_facts` to `_info`

Ansible 2.9 renamed a lot of modules from `<something>_facts` to `<something>_info`, because the modules do not return :ref:`Ansible facts <vars_and_facts>`. Ansible facts relate to a specific host. For example, the configuration of a network interface, the operating system on a unix server, and the list of packages installed on a Windows box are all Ansible facts. The renamed modules return values that are not unique to the host. For example, account information or region data for a cloud provider. Renaming these modules should provide more clarity about the types of return values each set of modules offers.

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Writing modules

- Module and module_utils files can now use relative imports to include other module_utils files. This is useful for shortening long import lines, especially in collections.

  Example of using a relative import in collections:

  ```
  # File: ansible_collections/my_namespace/my_collection/plugins/modules/my_module.py
  # Old way to use an absolute import to import module_utils from the collection:
  from ansible_collections.my_namespace.my_collection.plugins.module_utils import my_util
  # New way using a relative import:
  from ..module_utils import my_util
  ```

  Modules and module_utils shipped with Ansible can use relative imports as well but the savings are smaller:

  ```
  # File: ansible/modules/system/ping.py
  # Old way to use an absolute import to import module_utils from core:
  from ansible.module_utils.basic import AnsibleModule
  # New way using a relative import:
  from ...module_utils.basic import AnsibleModule
  ```

  Each single dot (.) represents one level of the tree (equivalent to ../ in filesystem relative links).

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>
> Unknown directive type "seealso".
>
> ```
>     .. seealso:: `The Python Relative Import Docs <https://www.python.org/dev/peps/pep-0328/#guido-s-decision>`_ go into more deta
> ```

Modules removed

The following modules no longer exist:

- Apstra's `aos_*` modules. See the new modules at https://github.com/apstra.
- ec2_ami_find use :ref:`ec2_ami_facts <ansible_2_9:ec2_ami_facts_module>` instead.

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- kubernetes use :ref:`k8s <ansible_2_9:k8s_module>` instead.

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- nxos_ip_interface use :ref:`nxos_l3_interface <ansible_2_9:nxos_l3_interface_module>` instead.

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- nxos_portchannel use :ref:`nxos_linkagg <ansible_2_9:nxos_linkagg_module>` instead.

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- nxos_switchport use :ref:`nxos_l2_interface <ansible_2_9:nxos_l2_interface_module>` instead.

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- oc use :ref:`k8s <ansible_2_9:k8s_module>` instead.

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- panos_nat_policy use :ref:`panos_nat_rule <ansible_2_9:panos_nat_rule_module>` instead.

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- panos_security_policy use :ref:`panos_security_rule <ansible_2_9:panos_security_rule_module>` instead.

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- vsphere_guest use :ref:`vmware_guest <ansible_2_9:vmware_guest_module>` instead.

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Deprecation notices

The following modules will be removed in Ansible 2.13. Please update update your playbooks accordingly.

- cs_instance_facts use :ref:`cs_instance_info <cs_instance_info_module>` instead.

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- cs_zone_facts use :ref:`cs_zone_info <cs_zone_info_module>` instead.

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- digital_ocean_sshkey_facts use :ref:`digital_ocean_sshkey_info <digital_ocean_sshkey_info_module>` instead.

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- eos_interface use :ref:`eos_interfaces <eos_interfaces_module>` instead.

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- eos_l2_interface use :ref:`eos_l2_interfaces <eos_l2_interfaces_module>` instead.

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- eos_l3_interface use :ref:`eos_l3_interfaces <eos_l3_interfaces_module>` instead.

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- eos_linkagg use :ref:`eos_lag_interfaces <eos_lag_interfaces_module>` instead.

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- eos_lldp_interface use :ref:`eos_lldp_interfaces <eos_lldp_interfaces_module>` instead.

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- eos_vlan use :ref:`eos_vlans <eos_vlans_module>` instead.

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  Unknown interpreted text role "ref".

- ios_interface use :ref:`ios_interfaces <ios_interfaces_module>` instead.

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- ios_l2_interface use :ref:`ios_l2_interfaces <ios_l2_interfaces_module>` instead.

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- ios_l3_interface use :ref:`ios_l3_interfaces <ios_l3_interfaces_module>` instead.

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- ios_vlan use :ref:`ios_vlans <ios_vlans_module>` instead.

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- iosxr_interface use :ref:`iosxr_interfaces <iosxr_interfaces_module>` instead.

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- junos_interface use :ref:`junos_interfaces <junos_interfaces_module>` instead.

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- junos_l2_interface use :ref:`junos_l2_interfaces <junos_l2_interfaces_module>` instead.

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- junos_l3_interface use :ref:`junos_l3_interfaces <junos_l3_interfaces_module>` instead.

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- junos_linkagg use :ref:`junos_lag_interfaces <junos_lag_interfaces_module>` instead.

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- junos_lldp use :ref:`junos_lldp_global <junos_lldp_global_module>` instead.

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- junos_lldp_interface use :ref:`junos_lldp_interfaces <junos_lldp_interfaces_module>` instead.

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- junos_vlan use :ref:`junos_vlans <junos_vlans_module>` instead.

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- lambda_facts use :ref:`lambda_info <lambda_info_module>` instead.

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- na_ontap_gather_facts use :ref:`na_ontap_info <na_ontap_info_module>` instead.

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- net_banner use the platform-specific [netos]_banner modules instead.
- net_interface use the new platform-specific [netos]_interfaces modules instead.
- net_l2_interface use the new platform-specific [netos]_l2_interfaces modules instead.
- net_l3_interface use the new platform-specific [netos]_l3_interfaces modules instead.
- net_linkagg use the new platform-specific [netos]_lag modules instead.
- net_lldp use the new platform-specific [netos]_lldp_global modules instead.
- net_lldp_interface use the new platform-specific [netos]_lldp_interfaces modules instead.
- net_logging use the platform-specific [netos]_logging modules instead.
- net_static_route use the platform-specific [netos]_static_route modules instead.
- net_system use the platform-specific [netos]_system modules instead.
- net_user use the platform-specific [netos]_user modules instead.
- net_vlan use the new platform-specific [netos]_vlans modules instead.
- net_vrf use the platform-specific [netos]_vrf modules instead.
- nginx_status_facts use :ref:`nginx_status_info <nginx_status_info_module>` instead.

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- nxos_interface use :ref:`nxos_interfaces <nxos_interfaces_module>` instead.

  > **System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 217); *backlink*
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- nxos_l2_interface use :ref:`nxos_l2_interfaces <nxos_l2_interfaces_module>` instead.

  > **System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 219); *backlink*
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- nxos_l3_interface use :ref:`nxos_l3_interfaces <nxos_l3_interfaces_module>` instead.

  > **System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 221); *backlink*
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- nxos_linkagg use :ref:`nxos_lag_interfaces <nxos_lag_interfaces_module>` instead.

  > **System Message: ERROR/3** (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 223); *backlink*
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- nxos_vlan use :ref:`nxos_vlans <nxos_vlans_module>` instead.

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- online_server_facts use :ref:`online_server_info <online_server_info_module>` instead.

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- online_user_facts use :ref:`online_user_info <online_user_info_module>` instead.

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- purefa_facts use :ref:`purefa_info <purefa_info_module>` instead.

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- purefb_facts use :ref:`purefb_info <purefb_info_module>` instead.

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- scaleway_image_facts use :ref:`scaleway_image_info <scaleway_image_info_module>` instead.

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  >
  > Unknown interpreted text role "ref".

- scaleway_ip_facts use :ref:`scaleway_ip_info <scaleway_ip_info_module>` instead.

- scaleway_organization_facts use :ref:`scaleway_organization_info <scaleway_organization_info_module>` instead.

- scaleway_security_group_facts use :ref:`scaleway_security_group_info <scaleway_security_group_info_module>` instead.

- scaleway_server_facts use :ref:`scaleway_server_info <scaleway_server_info_module>` instead.

- scaleway_snapshot_facts use :ref:`scaleway_snapshot_info <scaleway_snapshot_info_module>` instead.

- scaleway_volume_facts use :ref:`scaleway_volume_info <scaleway_volume_info_module>` instead.

- vcenter_extension_facts use :ref:`vcenter_extension_info <vcenter_extension_info_module>` instead.

- vmware_about_facts use :ref:`vmware_about_info <vmware_about_info_module>` instead.

- vmware_category_facts use :ref:`vmware_category_info <vmware_category_info_module>` instead.

- vmware_drs_group_facts use :ref:`vmware_drs_group_info <vmware_drs_group_info_module>` instead.

- vmware_drs_rule_facts use :ref:`vmware_drs_rule_info <vmware_drs_rule_info_module>` instead.

- vmware_dvs_portgroup_facts use :ref:`vmware_dvs_portgroup_info <vmware_dvs_portgroup_info_module>` instead.

- vmware_guest_boot_facts use :ref:`vmware_guest_boot_info <vmware_guest_boot_info_module>` instead.

- vmware_guest_customization_facts use :ref:`vmware_guest_customization_info <vmware_guest_customization_info_module>` instead.

- vmware_guest_disk_facts use :ref:`vmware_guest_disk_info <vmware_guest_disk_info_module>` instead.

- vmware_host_capability_facts use :ref:`vmware_host_capability_info <vmware_host_capability_info_module>` instead.

- vmware_host_config_facts use :ref:`vmware_host_config_info <vmware_host_config_info_module>` instead.

- vmware_host_dns_facts use :ref:`vmware_host_dns_info <vmware_host_dns_info_module>` instead.

- vmware_host_feature_facts use :ref:`vmware_host_feature_info <vmware_host_feature_info_module>` instead.

- vmware_host_firewall_facts use :ref:`vmware_host_firewall_info <vmware_host_firewall_info_module>` instead.

- vmware_host_ntp_facts use :ref:`vmware_host_ntp_info <vmware_host_ntp_info_module>` instead.

- vmware_host_package_facts use :ref:`vmware_host_package_info <vmware_host_package_info_module>` instead.

- vmware_host_service_facts use :ref:`vmware_host_service_info <vmware_host_service_info_module>` instead.

- vmware_host_ssl_facts use :ref:`vmware_host_ssl_info <vmware_host_ssl_info_module>` instead.

- vmware_host_vmhba_facts use :ref:`vmware_host_vmhba_info <vmware_host_vmhba_info_module>` instead.

- vmware_host_vmnic_facts use :ref:`vmware_host_vmnic_info <vmware_host_vmnic_info_module>` instead.

- vmware_local_role_facts use :ref:`vmware_local_role_info <vmware_local_role_info_module>` instead.

- vmware_local_user_facts use :ref:`vmware_local_user_info <vmware_local_user_info_module>` instead.

- vmware_portgroup_facts use :ref:`vmware_portgroup_info <vmware_portgroup_info_module>` instead.

- vmware_resource_pool_facts use :ref:`vmware_resource_pool_info <vmware_resource_pool_info_module>` instead.

- vmware_target_canonical_facts use :ref:`vmware_target_canonical_info <vmware_target_canonical_info_module>` instead.

- vmware_vmkernel_facts use :ref:`vmware_vmkernel_info <vmware_vmkernel_info_module>` instead.

- vmware_vswitch_facts use :ref:`vmware_vswitch_info <vmware_vswitch_info_module>` instead.

- vultr_account_facts use :ref:`vultr_account_info <vultr_account_info_module>` instead.

- vultr_block_storage_facts use :ref:`vultr_block_storage_info <vultr_block_storage_info_module>` instead.

- vultr_dns_domain_facts use :ref:`vultr_dns_domain_info <vultr_dns_domain_info_module>` instead.

- vultr_firewall_group_facts use :ref:`vultr_firewall_group_info <vultr_firewall_group_info_module>` instead.

- vultr_network_facts use :ref:`vultr_network_info <vultr_network_info_module>` instead.

- vultr_os_facts use :ref:`vultr_os_info <vultr_os_info_module>` instead.

- vultr_plan_facts use :ref:`vultr_plan_info <vultr_plan_info_module>` instead.

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- vultr_region_facts use :ref:`vultr_region_info <vultr_region_info_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 317`); *backlink*
>
> Unknown interpreted text role "ref".

- vultr_server_facts use :ref:`vultr_server_info <vultr_server_info_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 319`); *backlink*
>
> Unknown interpreted text role "ref".

- vultr_ssh_key_facts use :ref:`vultr_ssh_key_info <vultr_ssh_key_info_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 321`); *backlink*
>
> Unknown interpreted text role "ref".

- vultr_startup_script_facts use :ref:`vultr_startup_script_info <vultr_startup_script_info_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 323`); *backlink*
>
> Unknown interpreted text role "ref".

- vultr_user_facts use :ref:`vultr_user_info <vultr_user_info_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 325`); *backlink*
>
> Unknown interpreted text role "ref".

- vyos_interface use :ref:`vyos_interfaces <vyos_interfaces_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 327`); *backlink*
>
> Unknown interpreted text role "ref".

- vyos_l3_interface use :ref:`vyos_l3_interfaces <vyos_l3_interfaces_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 329`); *backlink*
>
> Unknown interpreted text role "ref".

- vyos_linkagg use :ref:`vyos_lag_interfaces <vyos_lag_interfaces_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 331`); *backlink*
>
> Unknown interpreted text role "ref".

- vyos_lldp use :ref:`vyos_lldp_global <vyos_lldp_global_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 333`); *backlink*
>
> Unknown interpreted text role "ref".

- vyos_lldp_interface use :ref:`vyos_lldp_interfaces <vyos_lldp_interfaces_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 335`); *backlink*
>
> Unknown interpreted text role "ref".

The following functionality will be removed in Ansible 2.12. Please update update your playbooks accordingly.

- `vmware_cluster` DRS, HA and VSAN configuration; use :ref:`vmware_cluster_drs <vmware_cluster_drs_module>`, :ref:`vmware_cluster_ha <vmware_cluster_ha_module>` and :ref:`vmware_cluster_vsan <vmware_cluster_vsan_module>` instead.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 340`); *backlink*
>
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 340`); *backlink*
>
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 340`); *backlink*
>
> Unknown interpreted text role "ref".

The following functionality will be removed in Ansible 2.13. Please update update your playbooks accordingly.

- `openssl_certificate` deprecates the `assertonly` provider. Please see the :ref:`openssl_certificate <openssl_certificate_module>` documentation examples on how to replace the provider with the :ref:`openssl_certificate_info <openssl_certificate_info_module>`, :ref:`openssl_csr_info <openssl_csr_info_module>`, :ref:`openssl_privatekey_info <openssl_privatekey_info_module>` and :ref:`assert <assert_module>` modules.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 345`); *backlink*
>
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 345`); *backlink*
>
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 345`); *backlink*
>
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 345`); *backlink*
>
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 345`); *backlink*
>
> Unknown interpreted text role "ref".

For the following modules, the PyOpenSSL-based backend `pyopenssl` has been deprecated and will be removed in Ansible 2.13:

- :ref:`get_certificate <get_certificate_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 355`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_certificate <openssl_certificate_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 356`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_certificate_info <openssl_certificate_info_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 357`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_csr <openssl_csr_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 358`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_csr_info <openssl_csr_info_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 359`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_privatekey <openssl_privatekey_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 360`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_privatekey_info <openssl_privatekey_info_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 361`); *backlink*
>
> Unknown interpreted text role "ref".

- :ref:`openssl_publickey <openssl_publickey_module>`

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 362`); *backlink*
>
> Unknown interpreted text role "ref".

Renamed modules

The following modules have been renamed. The old name is deprecated and will be removed in Ansible 2.13. Please update update

your playbooks accordingly.

- The `ali_instance_facts` module was renamed to :ref:`ali_instance_info <ali_instance_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]po``rting_guide_2.9.rst, line 371); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_acm_facts` module was renamed to :ref:`aws_acm_info <aws_acm_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 372); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_az_facts` module was renamed to :ref:`aws_az_info <aws_az_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 373); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_caller_facts` module was renamed to :ref:`aws_caller_info <aws_caller_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 374); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_kms_facts` module was renamed to :ref:`aws_kms_info <aws_kms_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 375); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_region_facts` module was renamed to :ref:`aws_region_info <aws_region_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 376); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_s3_bucket_facts` module was renamed to :ref:`aws_s3_bucket_info <aws_s3_bucket_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 377); *backlink*
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 377); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_sgw_facts` module was renamed to :ref:`aws_sgw_info <aws_sgw_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 380); *backlink*
  > Unknown interpreted text role "ref".

- The `aws_waf_facts` module was renamed to :ref:`aws_waf_info <aws_waf_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 381); *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_aks_facts` module was renamed to :ref:`azure_rm_aks_info <azure_rm_aks_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 382); *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_aksversion_facts` module was renamed to :ref:`azure_rm_aksversion_info <azure_rm_aksversion_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 383); *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_applicationsecuritygroup_facts` module was renamed to :ref:`azure_rm_applicationsecuritygroup_info <azure_rm_applicationsecuritygroup_info_module>`.

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 384); *backlink*

Unknown interpreted text role "ref".

- The `azure_rm_appserviceplan_facts` module was renamed to :ref:`azure_rm_appserviceplan_info <azure_rm_appserviceplan_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 385);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_automationaccount_facts` module was renamed to :ref:`azure_rm_automationaccount_info <azure_rm_automationaccount_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 386);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_autoscale_facts` module was renamed to :ref:`azure_rm_autoscale_info <azure_rm_autoscale_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 387);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_availabilityset_facts` module was renamed to :ref:`azure_rm_availabilityset_info <azure_rm_availabilityset_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 388);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_cdnendpoint_facts` module was renamed to :ref:`azure_rm_cdnendpoint_info <azure_rm_cdnendpoint_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 389);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_cdnprofile_facts` module was renamed to :ref:`azure_rm_cdnprofile_info <azure_rm_cdnprofile_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 390);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_containerinstance_facts` module was renamed to :ref:`azure_rm_containerinstance_info <azure_rm_containerinstance_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 391);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_containerregistry_facts` module was renamed to :ref:`azure_rm_containerregistry_info <azure_rm_containerregistry_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 392);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_cosmosdbaccount_facts` module was renamed to :ref:`azure_rm_cosmosdbaccount_info <azure_rm_cosmosdbaccount_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 393);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_deployment_facts` module was renamed to :ref:`azure_rm_deployment_info <azure_rm_deployment_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 394);** *backlink*
  > Unknown interpreted text role "ref".

- The `azure_rm_resourcegroup_facts` module was renamed to :ref:`azure_rm_resourcegroup_info <azure_rm_resourcegroup_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**
  > **[docsite][rst][porting_guides]porting_guide_2.9.rst, line 395);** *backlink*
  > Unknown interpreted text role "ref".

- The `bigip_device_facts` module was renamed to :ref:`bigip_device_info <bigip_device_info_module>`.

  > **System Message: ERROR/3 (**D:\onboarding-resources\sample-onboarding-
  > **resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]**

[docsite][rst][porting_guides]porting_guide_2.9.rst, line 396); *backlink*

Unknown interpreted text role "ref".

- The `bigiq_device_facts` module was renamed to :ref:`bigiq_device_info <bigiq_device_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 397);** *backlink*

  Unknown interpreted text role "ref".

- The `cloudformation_facts` module was renamed to :ref:`cloudformation_info <cloudformation_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 398);** *backlink*

  Unknown interpreted text role "ref".

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 398);** *backlink*

  Unknown interpreted text role "ref".

- The `cloudfront_facts` module was renamed to :ref:`cloudfront_info <cloudfront_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 401);** *backlink*

  Unknown interpreted text role "ref".

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 401);** *backlink*

  Unknown interpreted text role "ref".

- The `cloudwatchlogs_log_group_facts` module was renamed to :ref:`cloudwatchlogs_log_group_info <cloudwatchlogs_log_group_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 404);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_account_facts` module was renamed to :ref:`digital_ocean_account_info <digital_ocean_account_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 405);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_certificate_facts` module was renamed to :ref:`digital_ocean_certificate_info <digital_ocean_certificate_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 406);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_domain_facts` module was renamed to :ref:`digital_ocean_domain_info <digital_ocean_domain_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 407);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_firewall_facts` module was renamed to :ref:`digital_ocean_firewall_info <digital_ocean_firewall_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 408);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_floating_ip_facts` module was renamed to :ref:`digital_ocean_floating_ip_info <digital_ocean_floating_ip_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 409);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_image_facts` module was renamed to :ref:`digital_ocean_image_info <digital_ocean_image_info_module>`.

  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 410);** *backlink*

  Unknown interpreted text role "ref".

- The `digital_ocean_load_balancer_facts` module was renamed to :ref:`digital_ocean_load_balancer_info <digital_ocean_load_balancer_info_module>`.

- The `digital_ocean_region_facts` module was renamed to :ref:`digital_ocean_region_info <digital_ocean_region_info_module>`.

- The `digital_ocean_size_facts` module was renamed to :ref:`digital_ocean_size_info <digital_ocean_size_info_module>`.

- The `digital_ocean_snapshot_facts` module was renamed to :ref:`digital_ocean_snapshot_info <digital_ocean_snapshot_info_module>`.

- The `digital_ocean_tag_facts` module was renamed to :ref:`digital_ocean_tag_info <digital_ocean_tag_info_module>`.

- The `digital_ocean_volume_facts` module was renamed to :ref:`digital_ocean_volume_info <digital_ocean_volume_info_module>`.

- The `ec2_ami_facts` module was renamed to :ref:`ec2_ami_info <ec2_ami_info_module>`.

- The `ec2_asg_facts` module was renamed to :ref:`ec2_asg_info <ec2_asg_info_module>`.

- The `ec2_customer_gateway_facts` module was renamed to :ref:`ec2_customer_gateway_info <ec2_customer_gateway_info_module>`.

- The `ec2_eip_facts` module was renamed to :ref:`ec2_eip_info <ec2_eip_info_module>`.

- The `ec2_elb_facts` module was renamed to :ref:`ec2_elb_info <ec2_elb_info_module>`.

- The `ec2_eni_facts` module was renamed to :ref:`ec2_eni_info <ec2_eni_info_module>`.

- The `ec2_group_facts` module was renamed to :ref:`ec2_group_info <ec2_group_info_module>`.

- The ec2_instance_facts module was renamed to :ref:`ec2_instance_info <ec2_instance_info_module>`.

- The ec2_lc_facts module was renamed to :ref:`ec2_lc_info <ec2_lc_info_module>`.

- The ec2_placement_group_facts module was renamed to :ref:`ec2_placement_group_info <ec2_placement_group_info_module>`.

- The ec2_snapshot_facts module was renamed to :ref:`ec2_snapshot_info <ec2_snapshot_info_module>`.

- The ec2_vol_facts module was renamed to :ref:`ec2_vol_info <ec2_vol_info_module>`.

- The ec2_vpc_dhcp_option_facts module was renamed to :ref:`ec2_vpc_dhcp_option_info <ec2_vpc_dhcp_option_info_module>`.

- The ec2_vpc_endpoint_facts module was renamed to :ref:`ec2_vpc_endpoint_info <ec2_vpc_endpoint_info_module>`.

- The ec2_vpc_igw_facts module was renamed to :ref:`ec2_vpc_igw_info <ec2_vpc_igw_info_module>`.

- The ec2_vpc_nacl_facts module was renamed to :ref:`ec2_vpc_nacl_info <ec2_vpc_nacl_info_module>`.

- The ec2_vpc_nat_gateway_facts module was renamed to :ref:`ec2_vpc_nat_gateway_info <ec2_vpc_nat_gateway_info_module>`.

- The ec2_vpc_net_facts module was renamed to :ref:`ec2_vpc_net_info <ec2_vpc_net_info_module>`.

- The ec2_vpc_peering_facts module was renamed to :ref:`ec2_vpc_peering_info <ec2_vpc_peering_info_module>`.

- The ec2_vpc_route_table_facts module was renamed to :ref:`ec2_vpc_route_table_info <ec2_vpc_route_table_info_module>`.

- The `ec2_vpc_subnet_facts` module was renamed to :ref:`ec2_vpc_subnet_info <ec2_vpc_subnet_info_module>`.

- The `ec2_vpc_vgw_facts` module was renamed to :ref:`ec2_vpc_vgw_info <ec2_vpc_vgw_info_module>`.

- The `ec2_vpc_vpn_facts` module was renamed to :ref:`ec2_vpc_vpn_info <ec2_vpc_vpn_info_module>`.

- The `ecs_service_facts` module was renamed to :ref:`ecs_service_info <ecs_service_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ecs_taskdefinition_facts` module was renamed to :ref:`ecs_taskdefinition_info <ecs_taskdefinition_info_module>`.

- The `efs_facts` module was renamed to :ref:`efs_info <efs_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `elasticache_facts` module was renamed to :ref:`elasticache_info <elasticache_info_module>`.

- The `elb_application_lb_facts` module was renamed to :ref:`elb_application_lb_info <elb_application_lb_info_module>`.

- The `elb_classic_lb_facts` module was renamed to :ref:`elb_classic_lb_info <elb_classic_lb_info_module>`.

- The `elb_target_facts` module was renamed to :ref:`elb_target_info <elb_target_info_module>`.

- The `elb_target_group_facts` module was renamed to :ref:`elb_target_group_info <elb_target_group_info_module>`.

- The `gcp_bigquery_dataset_facts` module was renamed to :ref:`gcp_bigquery_dataset_info
  <gcp_bigquery_dataset_info_module>`.

- The `gcp_bigquery_table_facts` module was renamed to :ref:`gcp_bigquery_table_info
  <gcp_bigquery_table_info_module>`.

- The `gcp_cloudbuild_trigger_facts` module was renamed to :ref:`gcp_cloudbuild_trigger_info
  <gcp_cloudbuild_trigger_info_module>`.

- The `gcp_compute_address_facts` module was renamed to :ref:`gcp_compute_address_info
  <gcp_compute_address_info_module>`.

- The `gcp_compute_backend_bucket_facts` module was renamed to :ref:`gcp_compute_backend_bucket_info
  <gcp_compute_backend_bucket_info_module>`.

- The `gcp_compute_backend_service_facts` module was renamed to :ref:`gcp_compute_backend_service_info
  <gcp_compute_backend_service_info_module>`.

- The `gcp_compute_disk_facts` module was renamed to :ref:`gcp_compute_disk_info <gcp_compute_disk_info_module>`.

- The `gcp_compute_firewall_facts` module was renamed to :ref:`gcp_compute_firewall_info
  <gcp_compute_firewall_info_module>`.

- The `gcp_compute_forwarding_rule_facts` module was renamed to :ref:`gcp_compute_forwarding_rule_info
  <gcp_compute_forwarding_rule_info_module>`.

- The `gcp_compute_global_address_facts` module was renamed to :ref:`gcp_compute_global_address_info
  <gcp_compute_global_address_info_module>`.

- The `gcp_compute_global_forwarding_rule_facts` module was renamed to
  :ref:`gcp_compute_global_forwarding_rule_info <gcp_compute_global_forwarding_rule_info_module>`.

- The `gcp_compute_health_check_facts` module was renamed to :ref:`gcp_compute_health_check_info
  <gcp_compute_health_check_info_module>`.

- The `gcp_compute_http_health_check_facts` module was renamed to :ref:`gcp_compute_http_health_check_info <gcp_compute_http_health_check_info_module>`.

- The `gcp_compute_https_health_check_facts` module was renamed to :ref:`gcp_compute_https_health_check_info <gcp_compute_https_health_check_info_module>`.

- The `gcp_compute_image_facts` module was renamed to :ref:`gcp_compute_image_info <gcp_compute_image_info_module>`.

- The `gcp_compute_instance_facts` module was renamed to :ref:`gcp_compute_instance_info <gcp_compute_instance_info_module>`.

- The `gcp_compute_instance_group_facts` module was renamed to :ref:`gcp_compute_instance_group_info <gcp_compute_instance_group_info_module>`.

- The `gcp_compute_instance_group_manager_facts` module was renamed to :ref:`gcp_compute_instance_group_manager_info <gcp_compute_instance_group_manager_info_module>`.

- The `gcp_compute_instance_template_facts` module was renamed to :ref:`gcp_compute_instance_template_info <gcp_compute_instance_template_info_module>`.

- The `gcp_compute_interconnect_attachment_facts` module was renamed to :ref:`gcp_compute_interconnect_attachment_info <gcp_compute_interconnect_attachment_info_module>`.

- The `gcp_compute_network_facts` module was renamed to :ref:`gcp_compute_network_info <gcp_compute_network_info_module>`.

- The `gcp_compute_region_disk_facts` module was renamed to :ref:`gcp_compute_region_disk_info <gcp_compute_region_disk_info_module>`.

- The `gcp_compute_route_facts` module was renamed to :ref:`gcp_compute_route_info <gcp_compute_route_info_module>`.

- The `gcp_compute_router_facts` module was renamed to :ref:`gcp_compute_router_info

`<gcp_compute_router_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 475`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_ssl_certificate_facts` module was renamed to :ref:`gcp_compute_ssl_certificate_info <gcp_compute_ssl_certificate_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 476`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_ssl_policy_facts` module was renamed to :ref:`gcp_compute_ssl_policy_info <gcp_compute_ssl_policy_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 477`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_subnetwork_facts` module was renamed to :ref:`gcp_compute_subnetwork_info <gcp_compute_subnetwork_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 478`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_target_http_proxy_facts` module was renamed to :ref:`gcp_compute_target_http_proxy_info <gcp_compute_target_http_proxy_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 479`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_target_https_proxy_facts` module was renamed to :ref:`gcp_compute_target_https_proxy_info <gcp_compute_target_https_proxy_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 480`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_target_pool_facts` module was renamed to :ref:`gcp_compute_target_pool_info <gcp_compute_target_pool_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 481`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_target_ssl_proxy_facts` module was renamed to :ref:`gcp_compute_target_ssl_proxy_info <gcp_compute_target_ssl_proxy_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 482`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_target_tcp_proxy_facts` module was renamed to :ref:`gcp_compute_target_tcp_proxy_info <gcp_compute_target_tcp_proxy_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 483`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_target_vpn_gateway_facts` module was renamed to :ref:`gcp_compute_target_vpn_gateway_info <gcp_compute_target_vpn_gateway_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 484`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_url_map_facts` module was renamed to :ref:`gcp_compute_url_map_info <gcp_compute_url_map_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 485`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_vpn_tunnel_facts` module was renamed to :ref:`gcp_compute_vpn_tunnel_info <gcp_compute_vpn_tunnel_info_module>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 486`); *backlink*
>
> Unknown interpreted text role "ref".

- The `gcp_compute_ssl_policy_facts`

- The `gcp_container_cluster_facts` module was renamed to :ref:`gcp_container_cluster_info <gcp_container_cluster_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 487);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_container_node_pool_facts` module was renamed to :ref:`gcp_container_node_pool_info <gcp_container_node_pool_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 488);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_dns_managed_zone_facts` module was renamed to :ref:`gcp_dns_managed_zone_info <gcp_dns_managed_zone_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 489);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_dns_resource_record_set_facts` module was renamed to :ref:`gcp_dns_resource_record_set_info <gcp_dns_resource_record_set_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 490);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_iam_role_facts` module was renamed to :ref:`gcp_iam_role_info <gcp_iam_role_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 491);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_iam_service_account_facts` module was renamed to :ref:`gcp_iam_service_account_info <gcp_iam_service_account_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 492);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_pubsub_subscription_facts` module was renamed to :ref:`gcp_pubsub_subscription_info <gcp_pubsub_subscription_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 493);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_pubsub_topic_facts` module was renamed to :ref:`gcp_pubsub_topic_info <gcp_pubsub_topic_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 494);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_redis_instance_facts` module was renamed to :ref:`gcp_redis_instance_info <gcp_redis_instance_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 495);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_resourcemanager_project_facts` module was renamed to :ref:`gcp_resourcemanager_project_info <gcp_resourcemanager_project_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 496);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_sourcerepo_repository_facts` module was renamed to :ref:`gcp_sourcerepo_repository_info <gcp_sourcerepo_repository_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 497);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_spanner_database_facts` module was renamed to :ref:`gcp_spanner_database_info <gcp_spanner_database_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 498);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_spanner_instance_facts` module was renamed to :ref:`gcp_spanner_instance_info <gcp_spanner_instance_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 499);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_sql_database_facts` module was renamed to :ref:`gcp_sql_database_info <gcp_sql_database_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 500);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_sql_instance_facts` module was renamed to :ref:`gcp_sql_instance_info <gcp_sql_instance_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 501);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_sql_user_facts` module was renamed to :ref:`gcp_sql_user_info <gcp_sql_user_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 502);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcp_tpu_node_facts` module was renamed to :ref:`gcp_tpu_node_info <gcp_tpu_node_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 503);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gcpubsub_facts` module was renamed to :ref:`gcpubsub_info <gcpubsub_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 504);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `github_webhook_facts` module was renamed to :ref:`github_webhook_info <github_webhook_info_module>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 505);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `gluster_heal_facts` module was renamed to :ref:`gluster_heal_info <gluster_heal_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 506);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 506);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_datacenter_facts` module was renamed to :ref:`hcloud_datacenter_info <hcloud_datacenter_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 509);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 509);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_floating_ip_facts` module was renamed to :ref:`hcloud_floating_ip_info <hcloud_floating_ip_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 512);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-`
  > `resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs]`
  > `[docsite][rst][porting_guides]porting_guide_2.9.rst`**, line 512);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_image_facts` module was renamed to :ref:`hcloud_image_info <hcloud_image_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 515`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 515`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_location_facts` module was renamed to :ref:`hcloud_location_info <hcloud_location_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 518`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 518`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_server_facts` module was renamed to :ref:`hcloud_server_info <hcloud_server_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 521`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 521`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_server_type_facts` module was renamed to :ref:`hcloud_server_type_info <hcloud_server_type_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 524`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 524`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_ssh_key_facts` module was renamed to :ref:`hcloud_ssh_key_info <hcloud_ssh_key_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 527`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 527`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hcloud_volume_facts` module was renamed to :ref:`hcloud_volume_info <hcloud_volume_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 530`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 530`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `hpilo_facts` module was renamed to :ref:`hpilo_info <hpilo_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

  > **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 533`**);** *backlink*
  >
  > Unknown interpreted text role "ref".

- The `iam_mfa_device_facts` module was renamed to :ref:`iam_mfa_device_info <iam_mfa_device_info_module>`.

- The `iam_role_facts` module was renamed to :ref:`iam_role_info <iam_role_info_module>`.

- The `iam_server_certificate_facts` module was renamed to :ref:`iam_server_certificate_info <iam_server_certificate_info_module>`.

- The `idrac_redfish_facts` module was renamed to :ref:`idrac_redfish_info <idrac_redfish_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `intersight_facts` module was renamed to :ref:`intersight_info <intersight_info_module>`.

- The `jenkins_job_facts` module was renamed to :ref:`jenkins_job_info <jenkins_job_info_module>`.

- The `k8s_facts` module was renamed to :ref:`k8s_info <k8s_info_module>`.

- The `memset_memstore_facts` module was renamed to :ref:`memset_memstore_info <memset_memstore_info_module>`.

- The `memset_server_facts` module was renamed to :ref:`memset_server_info <memset_server_info_module>`.

- The `one_image_facts` module was renamed to :ref:`one_image_info <one_image_info_module>`.

- The `onepassword_facts` module was renamed to :ref:`onepassword_info <onepassword_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_datacenter_facts` module was renamed to :ref:`oneview_datacenter_info <oneview_datacenter_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_enclosure_facts` module was renamed to :ref:`oneview_enclosure_info <oneview_enclosure_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_ethernet_network_facts` module was renamed to :ref:`oneview_ethernet_network_info <oneview_ethernet_network_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_fc_network_facts` module was renamed to :ref:`oneview_fc_network_info <oneview_fc_network_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_fcoe_network_facts` module was renamed to :ref:`oneview_fcoe_network_info <oneview_fcoe_network_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_logical_interconnect_group_facts` module was renamed to :ref:`oneview_logical_interconnect_group_info <oneview_logical_interconnect_group_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_network_set_facts` module was renamed to :ref:`oneview_network_set_info

`<oneview_network_set_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `oneview_san_manager_facts` module was renamed to :ref:`oneview_san_manager_info <oneview_san_manager_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`\`.

- The `os_flavor_facts` module was renamed to :ref:`os_flavor_info <os_flavor_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`\`.

- The `os_image_facts` module was renamed to :ref:`os_image_info <os_image_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`\`.

- The `os_keystone_domain_facts` module was renamed to :ref:`os_keystone_domain_info <os_keystone_domain_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`\`.

- The `os_networks_facts` module was renamed to :ref:`os_networks_info <os_networks_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`\`.

- The `os_port_facts` module was renamed to :ref:`os_port_info <os_port_info_module>`\`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`\`.

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- The os_project_facts module was renamed to :ref:`os_project_info <os_project_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The os_server_facts module was renamed to :ref:`os_server_info <os_server_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The os_subnets_facts module was renamed to :ref:`os_subnets_info <os_subnets_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The os_user_facts module was renamed to :ref:`os_user_info <os_user_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The ovirt_affinity_label_facts module was renamed to :ref:`ovirt_affinity_label_info <ovirt_affinity_label_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The ovirt_api_facts module was renamed to :ref:`ovirt_api_info <ovirt_api_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The ovirt_cluster_facts module was renamed to :ref:`ovirt_cluster_info <ovirt_cluster_info_module>`. When called with the new name, the module no longer returns ansible_facts. To access return values, :ref:`register a variable <registered_variables>`.

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- The `ovirt_datacenter_facts` module was renamed to :ref:`ovirt_datacenter_info <ovirt_datacenter_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_disk_facts` module was renamed to :ref:`ovirt_disk_info <ovirt_disk_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_event_facts` module was renamed to :ref:`ovirt_event_info <ovirt_event_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_external_provider_facts` module was renamed to :ref:`ovirt_external_provider_info <ovirt_external_provider_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_group_facts` module was renamed to :ref:`ovirt_group_info <ovirt_group_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_host_facts` module was renamed to :ref:`ovirt_host_info <ovirt_host_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_host_storage_facts` module was renamed to :ref:`ovirt_host_storage_info <ovirt_host_storage_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To

access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 629`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 629`); *backlink*
> Unknown interpreted text role "ref".

- The `ovirt_network_facts` module was renamed to :ref:`ovirt_network_info <ovirt_network_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 632`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 632`); *backlink*
> Unknown interpreted text role "ref".

- The `ovirt_nic_facts` module was renamed to :ref:`ovirt_nic_info <ovirt_nic_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 635`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 635`); *backlink*
> Unknown interpreted text role "ref".

- The `ovirt_permission_facts` module was renamed to :ref:`ovirt_permission_info <ovirt_permission_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 638`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 638`); *backlink*
> Unknown interpreted text role "ref".

- The `ovirt_quota_facts` module was renamed to :ref:`ovirt_quota_info <ovirt_quota_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 641`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 641`); *backlink*
> Unknown interpreted text role "ref".

- The `ovirt_scheduling_policy_facts` module was renamed to :ref:`ovirt_scheduling_policy_info <ovirt_scheduling_policy_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 644`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 644`); *backlink*
> Unknown interpreted text role "ref".

- The `ovirt_snapshot_facts` module was renamed to :ref:`ovirt_snapshot_info <ovirt_snapshot_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, line 647`); *backlink*
> Unknown interpreted text role "ref".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-

- The `ovirt_storage_domain_facts` module was renamed to :ref:`ovirt_storage_domain_info
  <ovirt_storage_domain_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To
  access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_storage_template_facts` module was renamed to :ref:`ovirt_storage_template_info
  <ovirt_storage_template_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To
  access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_storage_vm_facts` module was renamed to :ref:`ovirt_storage_vm_info <ovirt_storage_vm_info_module>`.
  When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a
  variable <registered_variables>`.

- The `ovirt_tag_facts` module was renamed to :ref:`ovirt_tag_info <ovirt_tag_info_module>`. When called with the new
  name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_template_facts` module was renamed to :ref:`ovirt_template_info <ovirt_template_info_module>`. When called
  with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable
  <registered_variables>`.

- The `ovirt_user_facts` module was renamed to :ref:`ovirt_user_info <ovirt_user_info_module>`. When called with the new
  name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

- The `ovirt_vm_facts` module was renamed to :ref:`ovirt_vm_info <ovirt_vm_info_module>`. When called with the new
  name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

[docsite][rst][porting_guides]porting_guide_2.9.rst, line 668); *backlink*

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 668);** *backlink*

Unknown interpreted text role "ref".

- The `ovirt_vmpool_facts` module was renamed to :ref:`ovirt_vmpool_info <ovirt_vmpool_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 671);** *backlink*

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 671);** *backlink*

Unknown interpreted text role "ref".

- The `python_requirements_facts` module was renamed to :ref:`python_requirements_info <python_requirements_info_module>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 674);** *backlink*

Unknown interpreted text role "ref".

- The `rds_instance_facts` module was renamed to :ref:`rds_instance_info <rds_instance_info_module>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 675);** *backlink*

Unknown interpreted text role "ref".

- The `rds_snapshot_facts` module was renamed to :ref:`rds_snapshot_info <rds_snapshot_info_module>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 676);** *backlink*

Unknown interpreted text role "ref".

- The `redfish_facts` module was renamed to :ref:`redfish_info <redfish_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 677);** *backlink*

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 677);** *backlink*

Unknown interpreted text role "ref".

- The `redshift_facts` module was renamed to :ref:`redshift_info <redshift_info_module>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 680);** *backlink*

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- The `route53_facts` module was renamed to :ref:`route53_info <route53_info_module>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 681);** *backlink*

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- The `smartos_image_facts` module was renamed to :ref:`smartos_image_info <ali_instance_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 682);** *backlink*

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 682);** *backlink*

Unknown interpreted text role "ref".

- The `vertica_facts` module was renamed to :ref:`vertica_info <vertica_info_module>`. When called with the new name, the module no longer returns `ansible_facts`. To access return values, :ref:`register a variable <registered_variables>`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst, **line 685);** *backlink*

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- The `vmware_cluster_facts` module was renamed to :ref:`vmware_cluster_info <vmware_cluster_info_module>`.

- The `vmware_datastore_facts` module was renamed to :ref:`vmware_datastore_info <vmware_datastore_info_module>`.

- The `vmware_guest_facts` module was renamed to :ref:`vmware_guest_info <vmware_guest_info_module>`.

- The `vmware_guest_snapshot_facts` module was renamed to :ref:`vmware_guest_snapshot_info <vmware_guest_snapshot_info_module>`.

- The `vmware_tag_facts` module was renamed to :ref:`vmware_tag_info <vmware_tag_info_module>`.

- The `vmware_vm_facts` module was renamed to :ref:`vmware_vm_info <vmware_vm_info_module>`.

- The `xenserver_guest_facts` module was renamed to :ref:`xenserver_guest_info <xenserver_guest_info_module>`.

- The `zabbix_group_facts` module was renamed to :ref:`zabbix_group_info <zabbix_group_info_module>`.

- The `zabbix_host_facts` module was renamed to :ref:`zabbix_host_info <zabbix_host_info_module>`.

Noteworthy module changes

- :ref:`vmware_cluster <vmware_cluster_module>` was refactored for easier maintenance/bugfixes. Use the three new, specialized modules to configure clusters. Configure DRS with :ref:`vmware_cluster_drs <vmware_cluster_drs_module>`, HA with :ref:`vmware_cluster_ha <vmware_cluster_ha_module>` and vSAN with :ref:`vmware_cluster_vsan <vmware_cluster_vsan_module>`.

- :ref:`vmware_dvswitch <vmware_dvswitch_module>`` accepts `folder` parameter to place dvswitch in user defined folder. This option makes `datacenter` as an optional parameter.

- :ref:`vmware_datastore_cluster <vmware_datastore_cluster_module>`` accepts `folder` parameter to place datastore cluster in user defined folder. This option makes `datacenter` as an optional parameter.

- :ref:`mysql_db <mysql_db_module>`` returns new `db_list` parameter in addition to `db` parameter. This `db_list` parameter refers to list of database names. `db` parameter will be deprecated in version 2.13.

- :ref:`snow_record <snow_record_module>`` and :ref:`snow_record_find <snow_record_find_module>`` now takes environment variables for `instance`, `username` and `password` parameters. This change marks these parameters as optional.

- The deprecated `force` option in `win_firewall_rule` has been removed.
- :ref:`openssl_certificate <openssl_certificate_module>`''s `ownca` provider creates authority key identifiers if not explicitly disabled with `ownca_create_authority_key_identifier: no`. This is only the case for the `cryptography` backend, which is selected by default if the `cryptography` library is available.

- :ref:`openssl_certificate <openssl_certificate_module>`''s `ownca` and `selfsigned` providers create subject key identifiers if not explicitly disabled with `ownca_create_subject_key_identifier: never_create` resp. `selfsigned_create_subject_key_identifier: never_create`. If a subject key identifier is provided by the CSR, it is taken; if not, it is created from the public key. This is only the case for the `cryptography` backend, which is selected by default if the `cryptography` library is available.

- :ref:`openssh_keypair <openssh_keypair_module>`` now applies the same file permissions and ownership to both public and private keys (both get the same `mode`, `owner`, `group`, and so on). If you need to change permissions / ownership on one key, use the :ref:`file <file_module>`` to modify it after it is created.

Plugins

Removed Lookup Plugins

- `redis_kv` use :ref:`redis <redis_lookup>`` instead.

Porting custom scripts

No notable changes

Networking

Network resource modules

Ansible 2.9 introduced the first batch of network resource modules. Sections of a network device's configuration can be thought of as a resource provided by that device. Network resource modules are intentionally scoped to configure a single resource and you can combine them as building blocks to configure complex network services. The older modules are deprecated in Ansible 2.9 and will be removed in Ansible 2.13. You should scan the list of deprecated modules above and replace them with the new network resource modules in your playbooks. See Ansible Network Features in 2.9 for details.

Improved `gather_facts` support for network devices

In Ansible 2.9, the `gather_facts` keyword now supports gathering network device facts in standardized key/value pairs. You can feed these network facts into further tasks to manage the network device. You can also use the new `gather_network_resources` parameter with the network `*_facts` modules (such as :ref:`eos_facts <eos_facts_module>`) to return just a subset of the device configuration. See :ref:`network_gather_facts` for an example.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel][docs][docsite][rst][porting_guides]porting_guide_2.9.rst,` **line 738);** *backlink*
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> Unknown interpreted text role "ref".

Top-level connection arguments removed in 2.9

Top-level connection arguments like `username`, `host`, and `password` are removed in version 2.9.

OLD In Ansible < 2.4

```
- name: example of using top-level options for connection properties
  ios_command:
    commands: show version
    host: "{{ inventory_hostname }}"
    username: cisco
    password: cisco
    authorize: yes
    auth_pass: cisco
```

Change your playbooks to the connection types `network_cli` and `netconf` using standard Ansible connection properties, and setting those properties in inventory by group. As you update your playbooks and inventory files, you can easily make the change to `become` for privilege escalation (on platforms that support it). For more information, see the :ref:`using become with network modules<become_network>` guide and the :ref:`platform documentation<platform_options>`.

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