

Ansible 3 Porting Guide

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Ansible 3 is based on Ansible-Base 2.10, which is the same major release as Ansible 2.10. Therefore, there is no section on ansible-base in this porting guide. If you are upgrading from Ansible 2.9, please first consult the Ansible 2.10 porting guide before continuing with the Ansible 3 porting guide.

We suggest you read this page along with the [Ansible 3 Changelog](#) to understand what updates you may need to make.

Porting Guide for v3.4.0

Known Issues

dellemc.openmanage

- `idrac_user` - Issue(192043) Module may error out with the message `unable to perform the import or export operation because there are pending attribute changes or a configuration job is in progress.` Wait for the job to complete and run the task again.
- `ome_configuration_compliance_info` - Issue(195592) Module may error out with the message `unable to process the request because an error occurred.` If the issue persists, report it to the system administrator.
- `ome_smart_fabric` - Issue(185322) Only three design types are supported by OpenManage Enterprise Modular but the module successfully creates a fabric when the design type is not supported.
- `ome_smart_fabric_uplink` - Issue(186024) `ome_smart_fabric_uplink` module does not allow the creation of multiple uplinks of the same name even though this is supported by OpenManage Enterprise Modular. If an uplink is created using the same name as an existing uplink, the existing uplink is modified.

Major Changes

Ansible-base

- `ansible-test` - Tests run with the `centos6` and `default` test containers now use a PyPI proxy container to access PyPI when Python 2.6 is used. This allows tests running under Python 2.6 to continue functioning even though PyPI is discontinuing support for non-SNI capable clients.

community.postgresql

- `postgresql_query` - the default value of the `as_single_query` option will be changed to `yes` in `community.postgresql 2.0.0` (<https://github.com/ansible-collections/community.postgresql/issues/85>).

netapp.ontap

- `na_ontap_autosupport` - Added REST support to the module.

Deprecated Features

community.aws

- `ec2_vpc_endpoint_info` - the `query` option has been deprecated and will be removed after 2022-12-01 (<https://github.com/ansible-collections/community.aws/pull/346>). The `ec2_vpc_endpoint_info` now defaults to listing information about endpoints. The ability to search for information about available services has been moved to the dedicated module `ec2_vpc_endpoint_service_info`.

community.docker

- `docker_*` modules and plugins, except `docker_swarm` connection plugin and `docker_compose` and `docker_stack*` modules - the current default `localhost` for `tls_hostname` is deprecated. In `community.docker 2.0.0` it will be computed from `docker_host` instead (<https://github.com/ansible-collections/community.docker/pull/134>).

Porting Guide for v3.3.0

Major Changes

community.mysql

- `mysql_user` - the `REQUIRES_SSL` is an alias for the `ssl` key in the `tls_requires` option in `community.mysql 2.0.0` and support will be dropped altogether in `community.mysql 3.0.0` (<https://github.com/ansible-collections/community.mysql/issues/121>).

Deprecated Features

community.vmware

- `vmware_vmkernel_ip_config` - deprecate in favor of `vmware_vmkernel` (<https://github.com/ansible-collections/community.vmware/pull/667>).

f5networks.f5_modules

- Support for Python versions earlier than 3.5 is being deprecated

Porting Guide for v3.2.0

Known Issues

dellemc.openmanage

- `idrac_user` - Issue(192043) Module may error out with the message `unable to perform the import or export operation because there are pending attribute changes or a configuration job is in progress`. Wait for the job to complete and run the task again.
- `ome_configuration_compliance_info` - Issue(195592) Module may error out with the message `unable to process the request because an error occurred`. If the issue persists, report it to the system administrator.
- `ome_smart_fabric` - Issue(185322) Only three design types are supported by OpenManage Enterprise Modular but the module successfully creates a fabric when the design type is not supported.
- `ome_smart_fabric_uplink` - Issue(186024) `ome_smart_fabric_uplink` module does not allow the creation of multiple uplinks of the same name even though this is supported by OpenManage Enterprise Modular. If an uplink is created using the same name as an existing uplink, the existing uplink is modified.

Breaking Changes

community.docker

- `docker_swarm` - if `join_token` is specified, a returned join token with the same value will be replaced by `VALUE_SPECIFIED_IN_NO_LOG_PARAMETER`. Make sure that you do not blindly use the join tokens from the return value of this module when the module is invoked with `join_token` specified! This breaking change appears in a minor release since it is necessary to fix a security issue (<https://github.com/ansible-collections/community.docker/pull/103>).

Deprecated Features

community.crypto

- `acme module_utils` - the `acme module_utils` (`ansible_collections.community.crypto.plugins.module_utils.acme`) is deprecated and will be removed in `community.crypto 2.0.0`. Use the new Python modules in the `acme` package instead (`ansible_collections.community.crypto.plugins.module_utils.acme.xxx`) (<https://github.com/ansible-collections/community.crypto/pull/103>).

Porting Guide for v3.1.0

Known Issues

dellemc.openmanage

- `ome_smart_fabric` - Issue(185322) Only three design types are supported by OpenManage Enterprise Modular but the module successfully creates a fabric when the design type is not supported.
- `ome_smart_fabric_uplink` - Issue(186024) `ome_smart_fabric_uplink` module does not allow the creation of multiple uplinks of the same name even though this is supported by OpenManage Enterprise Modular. If an uplink is created using the same name as an existing uplink, the existing uplink is modified.

Major Changes

community.grafana

- introduce "skip_version_check" parameter in `grafana_teams` and `grafana_folder` modules (#147)

community.mysql

- `mysql_replication` - the mode options values `getslave`, `startslave`, `stopslave`, `resetslave`, `resetslaveall` and the `master_use_gtid` option ```slave_pos` are deprecated (see the alternative values) and will be removed in `community.mysql` 3.0.0 (<https://github.com/ansible-collections/community.mysql/pull/97>).
- `mysql_replication` - the word `SLAVE` in messages returned by the module will be changed to `REPLICA` in `community.mysql` 2.0.0 (<https://github.com/ansible-collections/community.mysql/issues/98>).

Removed Features

f5networks.f5_modules

- Removed TMOS v11 support for `bigip_gtm_pool` and `bigip_gtm_wide_ip` modules
- Removed `quorum` and `monitor_type` parameters in `bigip_node` module. See porting guides section at <https://clouddocs.f5.com/products/orchestration/ansible/devel/usage/porting-guides.html>
- Removed `syslog_settings` and `pool_settings` parameters in `bigip_log_destination` module. See porting guides section at <https://clouddocs.f5.com/products/orchestration/ansible/devel/usage/porting-guides.html>

Deprecated Features

cloudscale_ch.cloud

- The aliases `server_uuids` and `server_uuid` of the `servers` parameter in the `volume` module will be removed in version 3.0.0.

community.aws

- `ec2_eip` - formally deprecate the `instance_id` alias for `device_id` (<https://github.com/ansible-collections/community.aws/pull/349>).
- `ec2_vpc_endpoint` - deprecate the `policy_file` option and recommend using `policy` with a lookup (<https://github.com/ansible-collections/community.aws/pull/366>).

community.crypto

- `acme_account_info` - when `retrieve_orders=url_list`, `orders` will no longer be returned in `community.crypto` 2.0.0. Use `order_uris` instead (<https://github.com/ansible-collections/community.crypto/pull/178>).

community.general

- `apt_rpm` - deprecated invalid parameter alias `update-cache`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- `composer` - deprecated invalid parameter aliases `working-dir`, `global-command`, `prefer-source`, `prefer-dist`, `no-dev`, `no-scripts`, `no-plugins`, `optimize-autoloader`, `classmap-authoritative`, `apcu-autoloader`, `ignore-platform-reqs`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- `github_deploy_key` - deprecated invalid parameter alias `2fa_token`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- `grove` - the option `message` will be removed in `community.general` 4.0.0. Use the new option `message_content` instead (<https://github.com/ansible-collections/community.general/pull/1929>).

- homebrew - deprecated invalid parameter alias `update-brew`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- homebrew_cask - deprecated invalid parameter alias `update-brew`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- opkg - deprecated invalid parameter alias `update-cache`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- pacman - deprecated invalid parameter alias `update-cache`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- puppet - deprecated undocumented parameter `show_diff`, will be removed in 7.0.0. (<https://github.com/ansible-collections/community.general/pull/1927>).
- runit - unused parameter `dist` marked for deprecation (<https://github.com/ansible-collections/community.general/pull/1830>).
- slackpkg - deprecated invalid parameter alias `update-cache`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- urpmi - deprecated invalid parameter aliases `update-cache` and `no-recommends`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- xbps - deprecated invalid parameter alias `update-cache`, will be removed in 5.0.0 (<https://github.com/ansible-collections/community.general/pull/1927>).
- xfconf - returning output as facts is deprecated, this will be removed in community.general 4.0.0. Please register the task output in a variable and use it instead. You can already switch to the new behavior now by using the new `disable_facts` option (<https://github.com/ansible-collections/community.general/pull/1747>).

Porting Guide for v3.0.0

Known Issues

dellemc.openmanage

- Issue 1(186024): `ome_smart_fabric_uplink` module does not allow the creation of multiple uplinks of the same name even though this is supported by OpenManage Enterprise Modular. If an uplink is created using the same name as an existing uplink, the existing uplink is modified.
- Issue 2(187956): If an invalid `job_id` is provided, `idrac_lifecycle_controller_job_status_info` returns an error message. This error message does not contain information about the exact issue with the invalid `job_id`.
- Issue 3(188267): While updating the iDRAC firmware, the `idrac_firmware` module completes execution before the firmware update job is completed. An incorrect message is displayed in the task output as 'DRAC WSMAN endpoint returned HTTP code '400' Reason 'Bad Request''. This issue may occur if the target iDRAC firmware version is less than 3.30.30.30

Breaking Changes

Ansible-base

- `ansible-galaxy login` command has been removed (see <https://github.com/ansible/ansible/issues/71560>)

ansible.utils

- If added custom sub plugins in your collection move from old location `plugins/<sub-plugin-name>` to the new location `plugins/sub_plugins/<sub-plugin-name>` and update the imports as required
- Move sub plugins `cli_parsers`, `fact_diff` and `validate` to `plugins/sub_plugins` folder
- The `cli_parsers` sub plugins folder name is changed to `cli_parse` to have consistent naming convention, that is all the `cli_parse` subplugins will now be in `plugins/sub_plugins/cli_parse` folder

cloudscale_ch.cloud

- `floating_ip - name` is required for assigning a new floating IP.

community.general

- If you use Ansible 2.9 and the Google cloud plugins or modules from this collection, community.general 2.0.0 results in errors when trying to use the Google cloud content by FQCN, like `community.general.gce_img`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.google.gce_img` for the previous example) and to make sure that you have `community.google` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) community.general manually, you need to make sure to also install the `community.google` or `google.cloud` collections if you are using any of the Google cloud plugins or modules. While ansible-base 2.10 or newer can use the redirects that community.general 2.0.0 adds, the collection they point to (such as `community.google`) must be installed for them to work.

- If you use Ansible 2.9 and the Kubevirt plugins or modules from this collection, community.general 2.0.0 results in errors when trying to use the Kubevirt content by FQCN, like `community.general.kubevirt_vm`. Since Ansible 2.9 is not able to use

redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.kubevirt.kubevirt_vm` for the previous example) and to make sure that you have `community.kubevirt` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.general` manually, you need to make sure to also install the `community.kubevirt` collection if you are using any of the Kubevirt plugins or modules. While ansible-base 2.10 or newer can use the redirects that `community.general 2.0.0` adds, the collection they point to (such as `community.google`) must be installed for them to work.

- If you use Ansible 2.9 and the `docker` plugins or modules from this collections, `community.general 2.0.0` results in errors when trying to use the docker content by FQCN, like `community.general.docker_container`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.docker.docker_container` for the previous example) and to make sure that you have `community.docker` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.general` manually, you need to make sure to also install `community.docker` if you are using any of the `docker` plugins or modules. While ansible-base 2.10 or newer can use the redirects that `community.general 2.0.0` adds, the collection they point to (`community.docker`) must be installed for them to work.

- If you use Ansible 2.9 and the `hashi_vault` lookup plugin from this collections, `community.general 2.0.0` results in errors when trying to use the Hashi Vault content by FQCN, like `community.general.hashi_vault`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your inventories, variable files, playbooks and roles manually to use the new FQCN (`community.hashi_vault.hashi_vault`) and to make sure that you have `community.hashi_vault` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.general` manually, you need to make sure to also install `community.hashi_vault` if you are using the `hashi_vault` plugin. While ansible-base 2.10 or newer can use the redirects that `community.general 2.0.0` adds, the collection they point to (`community.hashi_vault`) must be installed for them to work.

- If you use Ansible 2.9 and the `hetzner` modules from this collections, `community.general 2.0.0` results in errors when trying to use the hetzner content by FQCN, like `community.general.hetzner_firewall`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.hrobot.firewall` for the previous example) and to make sure that you have `community.hrobot` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.general` manually, you need to make sure to also install `community.hrobot` if you are using any of the `hetzner` modules. While ansible-base 2.10 or newer can use the redirects that `community.general 2.0.0` adds, the collection they point to (`community.hrobot`) must be installed for them to work.

- If you use Ansible 2.9 and the `oc` connection plugin from this collections, `community.general 2.0.0` results in errors when trying to use the oc content by FQCN, like `community.general.oc`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your inventories, variable files, playbooks and roles manually to use the new FQCN (`community.okd.oc`) and to make sure that you have `community.okd` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.general` manually, you need to make sure to also install `community.okd` if you are using the `oc` plugin. While ansible-base 2.10 or newer can use the redirects that `community.general 2.0.0` adds, the collection they point to (`community.okd`) must be installed for them to work.

- If you use Ansible 2.9 and the `postgresql` modules from this collections, `community.general 2.0.0` results in errors when trying to use the postgresql content by FQCN, like `community.general.postgresql_info`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.postgresql.postgresql_info` for the previous example) and to make sure that you have `community.postgresql` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.general` manually, you need to make sure to also install `community.postgresql` if you are using any of the `postgresql` modules. While ansible-base 2.10 or newer can use the redirects that `community.general 2.0.0` adds, the collection they point to (`community.postgresql`) must be installed for them to work.

- The Google cloud inventory script `gce.py` has been migrated to the `community.google` collection. Install the `community.google` collection in order to continue using it.
- `archive - remove` path folder itself when `remove` parameter is true (<https://github.com/ansible-collections/community.general/issues/1041>).
- `log_plays` callback - add missing information to the logs generated by the callback plugin. This changes the log message format (<https://github.com/ansible-collections/community.general/pull/442>).
- `passwordstore` lookup plugin - now parsing a password store entry as YAML if possible, skipping the first line (which by convention only contains the password and nothing else). If it cannot be parsed as YAML, the old `key: value` parser will be used to process the entry. Can break backwards compatibility if YAML formatted code was parsed in a non-YAML interpreted way, e.g `foo: [bar, baz]` will become a list with two elements in the new version, but a string `'[bar, baz]'`

in the old (<https://github.com/ansible-collections/community.general/issues/1673>).

- `pkgng` - passing `name: *` with `state: absent` will no longer remove every installed package from the system. It is now a noop. (<https://github.com/ansible-collections/community.general/pull/569>).
- `pkgng` - passing `name: *` with `state: latest` or `state: present` will no longer install every package from the configured package repositories. Instead, `name: *`, `state: latest` will upgrade all already-installed packages, and `name: *`, `state: present` is a noop. (<https://github.com/ansible-collections/community.general/pull/569>).
- `proxmox_kvm` - recognize `force=yes` in conjunction with `state=absent` to forcibly remove a running VM (<https://github.com/ansible-collections/community.general/pull/849>).
- `utm_proxy_auth_profile` - the `frontend_cookie_secret` return value now contains a placeholder string instead of the module's `frontend_cookie_secret` parameter (<https://github.com/ansible-collections/community.general/pull/1736>).

community.hashi_vault

- `hashi_vault` - the `VAULT_ADDR` environment variable is now checked last for the `url` parameter. For details on which use cases are impacted, see (https://github.com/ansible-collections/community.hashi_vault/issues/8).

community.hrobot

- `firewall` - now requires the `ipaddress` library (<https://github.com/ansible-collections/community.hrobot/pull/2>).

community.network

- If you use Ansible 2.9 and the FortiOS modules from this collection, `community.network 2.0.0` results in errors when trying to use the FortiOS content by FQCN, like `community.network.fmgr_device`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.fortios.fmgr_device` for the previous example) and to make sure that you have `community.fortios` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.network` manually, you need to make sure to also install `community.fortios` if you are using any of the FortiOS modules. While ansible-base 2.10 or newer can use the redirects that `community.network 2.0.0` adds, the collection they point to (`community.fortios`) must be installed for them to work.

- If you use Ansible 2.9 and the `cp_publish` module from this collection, `community.network 2.0.0` results in errors when trying to use the module by FQCN, i.e. `community.network.cp_publish`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`check_point.mgmt.cp_mgmt_publish`) and to make sure that you have `check_point.mgmt` installed. If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.network` manually, you need to make sure to also install `check_point.mgmt` if you are using the `cp_publish` module. While ansible-base 2.10 or newer can use the redirects that `community.network 2.0.0` adds, the collection they point to (`check_point.mgmt`) must be installed for them to work.
- If you use Ansible 2.9 and the `fortimanager` `httpapi` plugin from this collection, `community.network 2.0.0` results in errors when trying to use it by FQCN (`community.network.fortimanager`). Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCN `fortinet.fortimanager.fortimanager` and to make sure that you have `fortinet.fortimanager` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.network` manually, you need to make sure to also install `fortinet.fortimanager` if you are using the `fortimanager httpapi` plugin. While ansible-base 2.10 or newer can use the redirect that `community.network 2.0.0` adds, the collection they point to (`fortinet.fortimanager`) must be installed for it to work.

- If you use Ansible 2.9 and the `nso` modules from this collection, `community.network 2.0.0` results in errors when trying to use the `nso` content by FQCN, like `community.network.nso_config`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`cisco.nso.nso_config` for the previous example) and to make sure that you have `cisco.nso` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.network` manually, you need to make sure to also install `cisco.nso` if you are using any of the `nso` modules. While ansible-base 2.10 or newer can use the redirects that `community.network 2.0.0` adds, the collection they point to (`cisco.nso`) must be installed for them to work.

- If you use Ansible 2.9 and the `routeros` plugins or modules from this collections, `community.network 2.0.0` results in errors when trying to use the `routeros` content by FQCN, like `community.network.routeros_command`. Since Ansible 2.9 is not able to use redirections, you will have to adjust your playbooks and roles manually to use the new FQCNs (`community.routeros.command` for the previous example) and to make sure that you have `community.routeros` installed.

If you use ansible-base 2.10 or newer and did not install Ansible 3.0.0, but installed (and/or upgraded) `community.network` manually, you need to make sure to also install `community.routeros` if you are using any of the `routeros` plugins or

modules. While ansible-base 2.10 or newer can use the redirects that community.network 2.0.0 adds, the collection they point to (community.routeros) must be installed for them to work.

- cnos_static_route - move ipaddress import from ansible.netcommon to builtin or package before ipaddress is removed from ansible.netcommon. You need to make sure to have the ipaddress package installed if you are using this module on Python 2.7 (<https://github.com/ansible-collections/community.network/pull/129>).

dellemc.os10

- os10_bgp - Changed "subnet" key as list format instead of dictionary format under "listen" key to support multiple neighbor prefix for listen command
- os10_bgp - Changed "vrf" key as list format instead of dictionary format to support multiple VRF in router BGP and changed the "vrf" key name to "vrfs"

ngine_io.cloudstack

- Authentication option using INI files e.g. cloudstack.ini has been removed. The only supported option to authenticate is by using the module params with fallback to the ENV variables.
- default zone deprecation - The zone param default value, across multiple modules, has been deprecated due to unreliable API (<https://github.com/ngine-io/ansible-collection-cloudstack/pull/62>).

Major Changes

cisco.aci

- Change certificate_name to name in aci_aaa_user_certificate module for query operation

community.general

- For community.general 3.0.0, the ome_device_info, idrac_firmware and idrac_server_config_profile modules will be moved to the [dellemc.openmanage](#) collection. A redirection will be inserted so that users using ansible-base 2.10 or newer do not have to change anything.

If you use Ansible 2.9 and explicitly use the DellEMC modules mentioned above from this collection, you will need to adjust your playbooks and roles to use FQCNs starting with dellemc.openmanage. instead of community.general., for example replace community.general.ome_device_info in a task by dellemc.openmanage.ome_device_info.

If you use ansible-base and installed community.general manually and rely on the DellEMC modules mentioned above, you have to make sure to install the dellemc.openmanage collection as well. If you are using FQCNs, for example community.general.ome_device_info instead of ome_device_info, it will continue working, but we still recommend to adjust the FQCNs as well.

- The community.general collection no longer depends on the ansible.netcommon collection (<https://github.com/ansible-collections/community.general/pull/1561>).
- The community.general collection no longer depends on the ansible.posix collection (<https://github.com/ansible-collections/community.general/pull/1157>).

community.kubernetes

- k8s - Add support for template parameter (<https://github.com/ansible-collections/community.kubernetes/pull/230>).
- k8s_* - Add support for vaulted kubeconfig and src (<https://github.com/ansible-collections/community.kubernetes/pull/193>).

community.okd

- Add custom k8s module, integrate better Molecule tests (<https://github.com/ansible-collections/community.okd/pull/7>).
- Add downstream build scripts to build redhat.openshift (<https://github.com/ansible-collections/community.okd/pull/20>).
- Add openshift connection plugin, update inventory plugin to use it (<https://github.com/ansible-collections/community.okd/pull/18>).
- Add openshift_process module for template rendering and optional application of rendered resources (<https://github.com/ansible-collections/community.okd/pull/44>).
- Add openshift_route module for creating routes from services (<https://github.com/ansible-collections/community.okd/pull/40>).
- Initial content migration from community.kubernetes (<https://github.com/ansible-collections/community.okd/pull/3>).
- openshift_auth - new module (migrated from k8s_auth in community.kubernetes) (<https://github.com/ansible-collections/community.okd/pull/33>).

dellemc.openmanage

- Removed the existing deprecated modules.
- Standardization of ten iDRAC ansible modules based on ansible guidelines.
- Support for OpenManage Enterprise Modular.

dellemc.os10

- os10_bgp - Enhanced router bgp keyword support for non-default vrf which are supported for default vrf and additional keyword to support both default and non-default vrf
- os10_snmp role - Added support for snmp V3 features in community, group, host, engineID

f5networks.f5_modules

- Add phone home Teem integration into all modules, functionality can be disabled by setting up F5_TEEM environment variable or no_f5_teem provider parameter
- Added async_timeout parameter to bigip_ucs_fetch module to allow customization of module wait for async interface
- Changed bigip_ucs_fetch module to use asynchronous interface when generating UCS files

kubernetes.core

- Add changelog and fragments and document changelog process (<https://github.com/ansible-collections/kubernetes.core/pull/131>).
- helm - New module for managing Helm charts (<https://github.com/ansible-collections/kubernetes.core/pull/61>).
- helm_info - New module for retrieving Helm chart information (<https://github.com/ansible-collections/kubernetes.core/pull/61>).
- helm_plugin - new module to manage Helm plugins (<https://github.com/ansible-collections/kubernetes.core/pull/154>).
- helm_plugin_info - new modules to gather information about Helm plugins (<https://github.com/ansible-collections/kubernetes.core/pull/154>).
- helm_repository - New module for managing Helm repositories (<https://github.com/ansible-collections/kubernetes.core/pull/61>).
- k8s - Add support for template parameter (<https://github.com/ansible-collections/kubernetes.core/pull/230>).
- k8s - Inventory source migrated from Ansible 2.9 to Kubernetes collection.
- k8s - Lookup plugin migrated from Ansible 2.9 to Kubernetes collection.
- k8s - Module migrated from Ansible 2.9 to Kubernetes collection.
- k8s_* - Add support for vaulted kubeconfig and src (<https://github.com/ansible-collections/kubernetes.core/pull/193>).
- k8s_auth - Module migrated from Ansible 2.9 to Kubernetes collection.
- k8s_config_resource_name - Filter plugin migrated from Ansible 2.9 to Kubernetes collection.
- k8s_exec - New module for executing commands on pods via Kubernetes API (<https://github.com/ansible-collections/kubernetes.core/pull/14>).
- k8s_exec - Return rc for the command executed (<https://github.com/ansible-collections/kubernetes.core/pull/158>).
- k8s_info - Module migrated from Ansible 2.9 to Kubernetes collection.
- k8s_log - New module for retrieving pod logs (<https://github.com/ansible-collections/kubernetes.core/pull/16>).
- k8s_scale - Module migrated from Ansible 2.9 to Kubernetes collection.
- k8s_service - Module migrated from Ansible 2.9 to Kubernetes collection.
- kubectrl - Connection plugin migrated from Ansible 2.9 to Kubernetes collection.
- openshift - Inventory source migrated from Ansible 2.9 to Kubernetes collection.

netbox.netbox

- nb_inventory - Add dns_name option that adds dns_name to the host when True and device has a primary IP address. (#394)
- nb_inventory - Add status as a group_by option. (398)
- nb_inventory - Move around extracted_primary_ip to allow for config_context or custom_field to overwrite. (#377)
- nb_inventory - Services are now a list of integers due to NetBox 2.10 changes. (#396)
- nb_lookup - Allow ID to be passed in and use .get instead of .filter. (#376)
- nb_lookup - Allow api_endpoint and token to be found via env. (#391)

ovirt.ovirt

- cluster_upgrade - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/94>).
- disaster_recovery - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/134>).
- engine_setup - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/69>).
- hosted_engine_setup - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/106>).
- image_template - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/95>).
- infra - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/92>).
- manageiq - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/97>).
- ovirt_system_option_info - Add new module (<https://github.com/oVirt/ovirt-ansible-collection/pull/206>).
- repositories - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/96>).
- shutdown_env - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/112>).
- vm_infra - Migrate role (<https://github.com/oVirt/ovirt-ansible-collection/pull/93>).

servicenow.servicenow

- add new tests (find with no result, search many)
- add related tests
- add support for ServiceNOW table api display_value exclude_reference_link and suppress_pagination_header
- use new API for pysnow >=0.6.0

Removed Features

community.docker

- `docker_container` - no longer returns `ansible_facts` (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_container` - the default of `networks_cli_compatible` changed to `true` (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_container` - the unused option `trust_image_content` has been removed (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image` - `state=build` has been removed. Use `present` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image` - the `container_limits`, `dockerfile`, `http_timeout`, `nocache`, `rm`, `path`, `buildargs`, `pull` have been removed. Use the corresponding suboptions of `build` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image` - the `force` option has been removed. Use the more specific `force_*` options instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image` - the `source` option is now mandatory (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image` - the `use_tls` option has been removed. Use `tls` and `validate_certs` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image` - the default of the `build.pull` option changed to `false` (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_image_facts` - this alias is no longer available, use `docker_image_info` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_network` - no longer returns `ansible_facts` (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_network` - the `ipam_options` option has been removed. Use `ipam_config` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_service` - no longer returns `ansible_facts` (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm` - `state=inspect` has been removed. Use `docker_swarm_info` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm_service` - the `constraints` option has been removed. Use `placement.constraints` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm_service` - the `limit_cpu` and `limit_memory` options has been removed. Use the corresponding suboptions in `limits` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm_service` - the `log_driver` and `log_driver_options` options has been removed. Use the corresponding suboptions in `logging` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm_service` - the `reserve_cpu` and `reserve_memory` options has been removed. Use the corresponding suboptions in `reservations` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm_service` - the `restart_policy`, `restart_policy_attempts`, `restart_policy_delay` and `restart_policy_window` options has been removed. Use the corresponding suboptions in `restart_config` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_swarm_service` - the `update_delay`, `update_parallelism`, `update_failure_action`, `update_monitor`, `update_max_failure_ratio` and `update_order` options has been removed. Use the corresponding suboptions in `update_config` instead (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_volume` - no longer returns `ansible_facts` (<https://github.com/ansible-collections/community.docker/pull/1>).
- `docker_volume` - the `force` option has been removed. Use `recreate` instead (<https://github.com/ansible-collections/community.docker/pull/1>).

community.general

- All Google cloud modules and plugins have now been migrated away from this collection. They can be found in either the [community.google](#) or [google.cloud](#) collections. If you use ansible-base 2.10 or newer, redirections have been provided.
If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.general.gce_img` → `community.google.gce_img`) and make sure to install the [community.google](#) or [google.cloud](#) collections as appropriate.
- All Kubevirt modules and plugins have now been migrated from `community.general` to the [community.kubevirt](#) Ansible collection. If you use ansible-base 2.10 or newer, redirections have been provided.
If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.general.kubevirt_vm` → `community.kubevirt.kubevirt_vm`) and make sure to install the [community.kubevirt](#) collection.
- All `docker` modules and plugins have been removed from this collection. They have been migrated to the [community.docker](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.

If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs

(`community.general.docker_container` â†’ `community.docker.docker_container`) and make sure to install the `community.docker` collection.

- All `hetzner` modules have been removed from this collection. They have been migrated to the [community.hrobot](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.

If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs

(`community.general.hetzner_firewall` â†’ `community.hrobot.firewall`) and make sure to install the `community.hrobot` collection.

- All `postgresql` modules have been removed from this collection. They have been migrated to the [community.postgresql](#) collection.

If you use ansible-base 2.10 or newer, redirections have been provided. If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.general.postgresql_info` â†’ `community.postgresql.postgresql_info`) and make sure to install the `community.postgresql` collection.

- The Google cloud inventory script `gce.py` has been migrated to the `community.google` collection. Install the `community.google` collection in order to continue using it.

- The `hashi_vault` lookup plugin has been removed from this collection. It has been migrated to the [community.hashi_vault](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.

If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.general.hashi_vault` â†’ `community.hashi_vault.hashi_vault`) and make sure to install the `community.hashi_vault` collection.

- The `oc` connection plugin has been removed from this collection. It has been migrated to the [community.okd](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.

If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.general.oc` â†’ `community.okd.oc`) and make sure to install the `community.okd` collection.

- The deprecated `actionable` callback plugin has been removed. Use the `ansible.builtin.default` callback plugin with `display_skipped_hosts = no` and `display_ok_hosts = no` options instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `foreman` module has been removed. Use the modules from the `theforeman.foreman` collection instead (<https://github.com/ansible-collections/community.general/pull/1347>) (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `full_skip` callback plugin has been removed. Use the `ansible.builtin.default` callback plugin with `display_skipped_hosts = no` option instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `gcdns_record` module has been removed. Use `google.cloud.gcp_dns_resource_record_set` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcdns_zone` module has been removed. Use `google.cloud.gcp_dns_managed_zone` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gce` module has been removed. Use `google.cloud.gcp_compute_instance` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcp_backend_service` module has been removed. Use `google.cloud.gcp_compute_backend_service` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcp_forwarding_rule` module has been removed. Use `google.cloud.gcp_compute_forwarding_rule` or `google.cloud.gcp_compute_global_forwarding_rule` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcp_healthcheck` module has been removed. Use `google.cloud.gcp_compute_health_check`, `google.cloud.gcp_compute_http_health_check` or `google.cloud.gcp_compute_https_health_check` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcp_target_proxy` module has been removed. Use `google.cloud.gcp_compute_target_http_proxy` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcp_url_map` module has been removed. Use `google.cloud.gcp_compute_url_map` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `gcpspanner` module has been removed. Use `google.cloud.gcp_spanner_database` and/or `google.cloud.gcp_spanner_instance` instead (<https://github.com/ansible-collections/community.general/pull/1370>).
- The deprecated `github_hooks` module has been removed. Use `community.general.github_webhook` and `community.general.github_webhook_info` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `katello` module has been removed. Use the modules from the `theforeman.foreman` collection instead

(<https://github.com/ansible-collections/community.general/pull/1347>).

- The deprecated `na_cdot_aggregate` module has been removed. Use `netapp.ontap.na_ontap_aggregate` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_license` module has been removed. Use `netapp.ontap.na_ontap_license` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_lun` module has been removed. Use `netapp.ontap.na_ontap_lun` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_qtree` module has been removed. Use `netapp.ontap.na_ontap_qtree` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_svm` module has been removed. Use `netapp.ontap.na_ontap_svm` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_user_role` module has been removed. Use `netapp.ontap.na_ontap_user_role` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_user` module has been removed. Use `netapp.ontap.na_ontap_user` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `na_cdot_volume` module has been removed. Use `netapp.ontap.na_ontap_volume` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `sf_account_manager` module has been removed. Use `netapp.elementsw.na_elementsw_account` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `sf_check_connections` module has been removed. Use `netapp.elementsw.na_elementsw_check_connections` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `sf_snapshot_schedule_manager` module has been removed. Use `netapp.elementsw.na_elementsw_snapshot_schedule` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `sf_volume_access_group_manager` module has been removed. Use `netapp.elementsw.na_elementsw_access_group` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `sf_volume_manager` module has been removed. Use `netapp.elementsw.na_elementsw_volume` instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The deprecated `stderr` callback plugin has been removed. Use the `ansible.builtin.default` callback plugin with `display_failed_stderr = yes` option instead (<https://github.com/ansible-collections/community.general/pull/1347>).
- The redirect of the `conjur_variable` lookup plugin to `cyberark.conjur.conjur_variable` collection was removed (<https://github.com/ansible-collections/community.general/pull/1346>).
- The redirect of the `firewalld` module and the `firewalld module_utils` to the `ansible.posix` collection was removed (<https://github.com/ansible-collections/community.general/pull/1346>).
- The redirect to the `community.digitalocean` collection was removed for: the `digital_ocean` doc fragment, the `digital_ocean module_utils`, and the following modules: `digital_ocean`, `digital_ocean_account_facts`, `digital_ocean_account_info`, `digital_ocean_block_storage`, `digital_ocean_certificate`, `digital_ocean_certificate_facts`, `digital_ocean_certificate_info`, `digital_ocean_domain`, `digital_ocean_domain_facts`, `digital_ocean_domain_info`, `digital_ocean_droplet`, `digital_ocean_firewall_facts`, `digital_ocean_firewall_info`, `digital_ocean_floating_ip`, `digital_ocean_floating_ip_facts`, `digital_ocean_floating_ip_info`, `digital_ocean_image_facts`, `digital_ocean_image_info`, `digital_ocean_load_balancer_facts`, `digital_ocean_load_balancer_info`, `digital_ocean_region_facts`, `digital_ocean_region_info`, `digital_ocean_size_facts`, `digital_ocean_size_info`, `digital_ocean_snapshot_facts`, `digital_ocean_snapshot_info`, `digital_ocean_sshkey`, `digital_ocean_sshkey_facts`, `digital_ocean_sshkey_info`, `digital_ocean_tag`, `digital_ocean_tag_facts`, `digital_ocean_tag_info`, `digital_ocean_volume_facts`, `digital_ocean_volume_info` (<https://github.com/ansible-collections/community.general/pull/1346>).
- The redirect to the `community.mysql` collection was removed for: the `mysql` doc fragment, the `mysql module_utils`, and the following modules: `mysql_db`, `mysql_info`, `mysql_query`, `mysql_replication`, `mysql_user`, `mysql_variables` (<https://github.com/ansible-collections/community.general/pull/1346>).
- The redirect to the `community.proxysql` collection was removed for: the `proxysql` doc fragment, and the following modules: `proxysql_backend_servers`, `proxysql_global_variables`, `proxysql_manage_config`, `proxysql_mysql_users`, `proxysql_query_rules`, `proxysql_replication_hostgroups`, `proxysql_scheduler` (<https://github.com/ansible-collections/community.general/pull/1346>).
- The redirect to the `infinidat.infinibox` collection was removed for: the `infinibox` doc fragment, the `infinibox module_utils`, and the following modules: `infini_export`, `infini_export_client`, `infini_fs`, `infini_host`,

`infini_pool`, `infini_vol` (<https://github.com/ansible-collections/community.general/pull/1346>).

- `conjur_variable` lookup - has been moved to the `cyberark.conjur` collection. A redirection is active, which will be removed in version 2.0.0 (<https://github.com/ansible-collections/community.general/pull/570>).
- `digital_ocean_*` - all DigitalOcean modules have been moved to the `community.digitalocean` collection. A redirection is active, which will be removed in version 2.0.0 (<https://github.com/ansible-collections/community.general/pull/622>).
- `infini_*` - all `infinidat` modules have been moved to the `infinidat.infinibox` collection. A redirection is active, which will be removed in version 2.0.0 (<https://github.com/ansible-collections/community.general/pull/607>).
- `iptables_state` - the `ANSIBLE_ASYNC_DIR` environment is no longer supported, use the `async_dir` shell option instead (<https://github.com/ansible-collections/community.general/pull/1371>).
- `logicmonitor` - the module has been removed in 1.0.0 since it is unmaintained and the API used by the module has been turned off in 2017 (<https://github.com/ansible-collections/community.general/issues/539>, <https://github.com/ansible-collections/community.general/pull/541>).
- `logicmonitor_facts` - the module has been removed in 1.0.0 since it is unmaintained and the API used by the module has been turned off in 2017 (<https://github.com/ansible-collections/community.general/issues/539>, <https://github.com/ansible-collections/community.general/pull/541>).
- `memcached` cache plugin - do not import `CacheModule`'s directly. Use `ansible.plugins.loader.cache_loader` instead (<https://github.com/ansible-collections/community.general/pull/1371>).
- `mysql_*` - all MySQL modules have been moved to the `community.mysql` collection. A redirection is active, which will be removed in version 2.0.0 (<https://github.com/ansible-collections/community.general/pull/633>).
- `proxysql_*` - all ProxySQL modules have been moved to the `community.proxysql` collection. A redirection is active, which will be removed in version 2.0.0 (<https://github.com/ansible-collections/community.general/pull/624>).
- `redis` cache plugin - do not import `CacheModule`'s directly. Use `ansible.plugins.loader.cache_loader` instead (<https://github.com/ansible-collections/community.general/pull/1371>).
- `xml` - when `content=attribute`, the `attribute` option is ignored (<https://github.com/ansible-collections/community.general/pull/1371>).

community.network

- All FortiOS modules and plugins have been removed from this collection. They have been migrated to the [community.fortios](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.
If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.network.fmgr_device` → `community.fortios.fmgr_device`) and make sure to install the *community.fortios* collection.
- All `nso` modules have been removed from this collection. They have been migrated to the [cisco.nso](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.
If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.network.nso_config` → `cisco.nso.nso_config`) and make sure to install the *cisco.nso* collection.
- All `routeros` modules and plugins have been removed from this collection. They have been migrated to the [community.routeros](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided.
If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.network.routeros_command` → `community.routeros.command`) and make sure to install the *community.routeros* collection.
- The `cp_publish` module has been removed from this collection. It was a duplicate of `check_point.mgmt.cp_mgmt_publish` in the [check_point.mgmt](#) collection. If you use ansible-base 2.10 or newer, redirections have been provided. If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.network.cp_publish` → `check_point.mgmt.cp_mgmt_publish`) and make sure to install the *check_point.mgmt* collection.
- The `fortimanager` `httpapi` plugin has been removed from this collection. It was a duplicate of the one in the [fortinet.fortimanager](#) collection. If you use ansible-base 2.10 or newer, a redirection has been provided.
If you use Ansible 2.9 and installed this collection, you need to adjust the FQCNs (`community.network.fortimanager` → `fortinet.fortimanager.fortimanager`) and make sure to install the *fortinet.fortimanager* collection.
- The dependency on the `check_point.mgmt` collection has been removed. If you depend on that installing `community.network` also installs `check_point.mgmt`, you have to make sure to install `check_point.mgmt` explicitly.
- The deprecated Pluribus Networks modules `pn_cluster`, `pn_ospf`, `pn_ospfarea`, `pn_show`, `pn_trunk`, `pn_vlag`, `pn_vlan`, `pn_vrouter`, `pn_vrouterbgp`, `pn_vrouterif`, `pn_vrouterlbif` have been removed (<https://github.com/ansible-collections/community.network/pull/176>).
- The deprecated modules `panos_admin`, `panos_admpwd`, `panos_cert_gen_ssh`, `panos_check`, `panos_commit`, `panos_dag`, `panos_dag_tags`, `panos_import`, `panos_interface`, `panos_lic`, `panos_loadcfg`, `panos_match_rule`,

panos_mgtconfig, panos_nat_rule, panos_object, panos_op, panos_pg, panos_query_rules, panos_restart, panos_sag, panos_security_rule, panos_set have been removed. Use modules from the [paloaltonetworks.panos collection](https://github.com/paloaltonetworks/panos-collection) instead (<https://github.com/ansible-collections/community.network/pull/176>).

- The redirect to the `mellanox.onyx` collection was removed for: the `onyx cliconf` plugin, terminal plugin, module_utils, action plugin, doc fragment, and the following modules: `onyx_aaa`, `onyx_bfd`, `onyx_bgp`, `onyx_buffer_pool`, `onyx_command`, `onyx_config`, `onyx_facts`, `onyx_igmp`, `onyx_igmp_interface`, `onyx_igmp_vlan`, `onyx_interface`, `onyx_l2_interface`, `onyx_l3_interface`, `onyx_linkagg`, `onyx_lldp`, `onyx_lldp_interface`, `onyx_magp`, `onyx_mlag_ipl`, `onyx_mlag_vip`, `onyx_ntp`, `onyx_ntp_servers_peers`, `onyx_ospf`, `onyx_pfc_interface`, `onyx_protocol`, `onyx_ptp_global`, `onyx_ptp_interface`, `onyx_qos`, `onyx_snmp`, `onyx_snmp_hosts`, `onyx_snmp_users`, `onyx_syslog_files`, `onyx_syslog_remote`, `onyx_traffic_class`, `onyx_username`, `onyx_vlan`, `onyx_vxlan`, `onyx_wjh` (<https://github.com/ansible-collections/community.network/pull/175>).
- `onyx` - all `onyx` modules and plugins have been moved to the `mellanox.onyx` collection. Redirects have been added that will be removed in `community.network` 2.0.0 (<https://github.com/ansible-collections/community.network/pull/83>).

f5networks.f5_modules

- Removed `arp_state` parameter from the `bigip_virtual_address` module

Deprecated Features

cisco.nxos

- Deprecated `nxos_bgp` and `nxos_bgp_neighbor` modules in favor of `nxos_bgp_global` resource module.
- Deprecated `nxos_interface_ospf` in favor of `nxos_ospf_interfaces` Resource Module.
- Deprecated `nxos_smu` in favor of `nxos_rpm` module.
- The `nxos_ospf_vrf` module is deprecated by `nxos_ospfv2` and `nxos_ospfv3` Resource Modules.

community.aws

- `ec2_vpc_igw_info` - After 2022-06-22 the `convert_tags` parameter default value will change from `False` to `True` to match the collection standard behavior (<https://github.com/ansible-collections/community.aws/pull/318>).

community.docker

- `docker_container` - currently `published_ports` can contain port mappings next to the special value `all`, in which case the port mappings are ignored. This behavior is deprecated for `community.docker` 2.0.0, at which point it will either be forbidden, or this behavior will be properly implemented similar to how the Docker CLI tool handles this (<https://github.com/ansible-collections/community.docker/issues/8>, <https://github.com/ansible-collections/community.docker/pull/60>).

community.general

- The `gluster_heal_info`, `gluster_peer` and `gluster_volume` modules have migrated to the [gluster.gluster](https://github.com/ansible-collections/gluster.gluster) collection. Ansible-base 2.10.1 adjusted the routing target to point to the modules in that collection, so we will remove these modules in `community.general` 3.0.0. If you use Ansible 2.9, or use FQCNs `community.general.gluster_*` in your playbooks and/or roles, please update them to use the modules from `gluster.gluster` instead.
- The `ldap_attr` module has been deprecated and will be removed in a later release; use `ldap_attrs` instead.
- `django_manage` - the parameter `liveserver` relates to a no longer maintained third-party module for `django`. It is now deprecated, and will be removed in `community.general` 3.0.0 (<https://github.com/ansible-collections/community.general/pull/1154>).
- `proxmox` - the default of the new `proxmox_default_behavior` option will change from `compatibility` to `no_defaults` in `community.general` 4.0.0. Set the option to an explicit value to avoid a deprecation warning (<https://github.com/ansible-collections/community.general/pull/850>).
- `proxmox_kvm` - the default of the new `proxmox_default_behavior` option will change from `compatibility` to `no_defaults` in `community.general` 4.0.0. Set the option to an explicit value to avoid a deprecation warning (<https://github.com/ansible-collections/community.general/pull/850>).
- `syspatch` - deprecate the redundant `apply` argument (<https://github.com/ansible-collections/community.general/pull/360>).
- `xbps` - the `force` option never had any effect. It is now deprecated, and will be removed in 3.0.0 (<https://github.com/ansible-collections/community.general/pull/568>).

community.hashi_vault

- `hashi_vault` - `VAULT_ADDR` environment variable for option `url` will have its precedence lowered in 1.0.0; use `ANSIBLE_HASHI_VAULT_ADDR` to intentionally override a config value (https://github.com/ansible-collections/community.hashi_vault/issues/8).
- `hashi_vault` - `VAULT_AUTH_METHOD` environment variable for option `auth_method` will be removed in 2.0.0, use `ANSIBLE_HASHI_VAULT_AUTH_METHOD` instead (https://github.com/ansible-collections/community.hashi_vault/issues/17).
- `hashi_vault` - `VAULT_ROLE_ID` environment variable for option `role_id` will be removed in 2.0.0, use

ANSIBLE_HASHI_VAULT_ROLE_ID instead (https://github.com/ansible-collections/community.hashi_vault/issues/20).

- `hashi_vault` - `VAULT_SECRET_ID` environment variable for option `secret_id` will be removed in 2.0.0, use `ANSIBLE_HASHI_VAULT_SECRET_ID` instead (https://github.com/ansible-collections/community.hashi_vault/issues/20).
- `hashi_vault` - `VAULT_TOKEN_FILE` environment variable for option `token_file` will be removed in 2.0.0, use `ANSIBLE_HASHI_VAULT_TOKEN_FILE` instead (https://github.com/ansible-collections/community.hashi_vault/issues/15).
- `hashi_vault` - `VAULT_TOKEN_PATH` environment variable for option `token_path` will be removed in 2.0.0, use `ANSIBLE_HASHI_VAULT_TOKEN_PATH` instead (https://github.com/ansible-collections/community.hashi_vault/issues/15).

community.network

- Deprecate `connection=local` support for network platforms using persistent framework (<https://github.com/ansible-collections/community.network/pull/120>).

community.vmware

- `vmware_host_firewall_manager` - the creation of new rule with no `allowed_ip` entry in the `allowed_hosts` dictionary won't be allowed after 2.0.0 release.

dellemc.openmanage

- The `dellemc_get_firmware_inventory` module is deprecated and replaced with `idrac_firmware_info`.
- The `dellemc_get_system_inventory` module is deprecated and replaced with `idrac_system_info`.
- The `dellemc_change_power_state` module is deprecated and replaced with the `redfish_powerstate` module.
- The `dellemc_configure_bios` module is deprecated and replaced with the `idrac_bios` module.
- The `dellemc_configure_idrac_network` module is deprecated and replaced with the `idrac_network` module.
- The `dellemc_configure_idrac_timezone` module is deprecated and replaced with the `idrac_timezone_ntp` module.
- The `dellemc_configure_idrac_users` module is deprecated and replaced with the `idrac_user` module.
- The `dellemc_delete_lc_job` and `dellemc_delete_lc_job_queue` modules are deprecated and replaced with the `idrac_lifecycle_controller_jobs` module.
- The `dellemc_export_lc_logs` module is deprecated and replaced with the `idrac_lifecycle_controller_logs` module.
- The `dellemc_get_lc_job_status` module is deprecated and replaced with the `idrac_lifecycle_controller_job_status_info` module.
- The `dellemc_get_lcstatus` module is deprecated and replaced with the `idrac_lifecycle_controller_status_info` module.
- The `dellemc_idrac_reset` module is deprecated and replaced with the `idrac_reset` module.
- The `dellemc_setup_idrac_syslog` module is deprecated and replaced with the `idrac_syslog` module.