Ansible 4 Porting Guide

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We suggest you read this page along with the Ansible 4 Changelog to understand what updates you may need to make.

Playbook

• The jinja2 native setting now does not affect the template module which implicitly returns strings. For the template lookup there is a new argument jinja2 native (off by default) to control that functionality. The rest of the Jinja2 expressions still operate based on the jinja2 native setting.

Command Line

• The ansible-galaxy login command has been removed, as the underlying API it used for GitHub auth has been shut down. Publishing roles or collections to Galaxy with ansible-galaxy now requires that a Galaxy API token be passed to the CLI using a token file (default location ~/.ansible/galaxy_token) or (insecurely) with the --token argument to ansible-galaxy.

Deprecated

The constant ansible.module_utils.basic._CHECK_ARGUMENT_TYPES_DISPATCHER is deprecated. Use const:`ansible.module_utils.common.parameters.DEFAULT_TYPE VALIDATORS` instead.

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Breaking Changes

Changes to AnsibleModule

With the move to :class: `ArgumentSpecValidator <ansible.module_utils.common.arg_spec.ArgumentSpecValidator>` for performing argument spec validation, the following private methods in :class: `AnsibleModule <ansible.module_utils.basic.AnsibleModule>` have been removed:

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- _check_argument_types()
- check argument values()
- check arguments()
- check mutually exclusive() --> :func:`ansible.module utils.common.validation.check mutually exclusive`

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• _check_required_arguments() -->:func:`ansible.module_utils.common.validation.check_required_arguments`

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check required by() -->: func: ansible.module utils.common.validation.check required by

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• check required if() -->:func:`ansible.module utils.common.validation.check required if

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• _check_required_one_of() --> :func:`ansible.module_utils.common.validation.check_required_one_of

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• _check_required_together() --> :func: `ansible.module_utils.common.validation.check_required_together`

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• _check_type_bits() --> :func:`ansible.module_utils.common.validation.check_type_bits`

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• check type bool () -->:func:`ansible.module utils.common.validation.check type bool`

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• _check_type_bytes() -->:func:`ansible.module_utils.common.validation.check_type_bytes`

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• _check_type_dict() --> :func:`ansible.module_utils.common.validation.check_type_dict`

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• _check_type_float() --> :func:`ansible.module_utils.common.validation.check_type_float`

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• check type int() -->:func:`ansible.module utils.common.validation.check type int`

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• check type jsonarg() --> :func:`ansible.module utils.common.validation.check_type_jsonarg`

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• check type list() --> :func:`ansible.module_utils.common.validation.check_type_list`

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• check type path() --> :func: `ansible.module_utils.common.validation.check_type_path`

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• check type raw() --> :func:`ansible.module_utils.common.validation.check_type_raw`

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• _check_type_str() -->:func:`ansible.module_utils.common.validation.check_type_str`

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• _count_terms() -->:func:`ansible.module_utils.common.validation.count_terms`

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- _get_wanted_type()
- _handle_aliases()
- _handle_no_log_values()
- _handle_options()
- _set_defaults()
- set fallbacks()

Modules or plugins using these private methods should use the public functions in mod:`ansible.module_utils.common.validation` or module_utils.common.arg_spec.ArgumentSpecValidator.validate if no public function was listed above.

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Changes to :mod:'ansible.module_utils.common.parameters'

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The following functions in :mod:`ansible.module_utils.common.parameters` are now private and should not be used directly. Use :meth:`ArgumentSpecValidator.validate() <ansible.module_utils.common.arg_spec.ArgumentSpecValidator.validate>` instead.

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- list_no_log_values
- list deprecations
- handle_aliases

Other

- Upgrading: If upgrading from ansible < 2.10 or from ansible-base and using pip, you must pip uninstall ansible or pip uninstall ansible-base before installing ansible-core to avoid conflicts.
- Python 3.8 on the controller node is a soft requirement for this release. ansible-core 2.11 still works with the same versions of Python that ansible-base 2.10 worked with, however 2.11 emits a warning when running on a controller node with a Python version less than 3.8. This warning can be disabled by setting ANSIBLE_CONTROLLER_PYTHON_WARNING=False in your environment. ansible-core 2.12 will require Python 3.8 or greater.
- The configuration system now validates the choices field, so any settings that violate it and were ignored in 2.10 cause an error in 2.11. For example, ANSIBLE_COLLECTIONS_ON_ANSIBLE_VERSION_MISMATCH=0 now causes an error (valid choices are ignore, warn or error).
- The ansible-galaxy command now uses resolvelib for resolving dependencies. In most cases this should not make a user-facing difference beyond being more performant, but we note it here for posterity and completeness.
- If you import Python <code>module_utils</code> into any modules you maintain, you may now mark the import as optional during the module payload build by wrapping the <code>import</code> statement in a <code>try</code> or <code>if</code> block. This allows modules to use <code>module_utils</code> that may not be present in all versions of Ansible or a collection, and to perform arbitrary recovery or fallback actions during module runtime.

Modules

- The apt_key module has explicitly defined file as mutually exclusive with data, keyserver and url. They cannot be used together anymore.
- The meta module now supports tags for user-defined tasks. Set the task's tags to 'always' to maintain the previous behavior. Internal meta tasks continue to always run.

Modules removed

The following modules no longer exist:

• No notable changes

Deprecation notices

No notable changes

Noteworthy module changes

- facts On NetBSD, ansible_virtualization_type now tries to report a more accurate result than xen when virtualized and not running on Xen.
- facts Virtualization facts now include virtualization_tech_guest and virtualization_tech_host keys. These are lists of virtualization technologies that a guest is a part of, or that a host provides, respectively. As an example, if you set up a host to provide both KVM and VirtualBox, both values are included in virtualization_tech_host. Similarly, a podman container running on a VM powered by KVM has a virtualization_tech_guest of ["kvm", "podman", "container"].

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Plugins

- inventory plugins CachePluginAdjudicator.flush() now calls the underlying cache plugin's flush() instead of only deleting keys that it knows about. Inventory plugins should use delete() to remove any specific keys. As a user, this means that when an inventory plugin calls its clear_cache() method, facts could also be flushed from the cache. To work around this, users can configure inventory plugins to use a cache backend that is independent of the facts cache.
- callback plugins meta task execution is now sent to v2_playbook_on_task_start like any other task. By default, only explicit meta tasks are sent there. Callback plugins can opt-in to receiving internal, implicitly created tasks to act on those as well, as noted in the plugin development documentation.
- The choices are now validated, so plugins that were using incorrect or incomplete choices issue an error in 2.11 if the value provided does not match. This has a simple fix: update the entries in choices to match reality.

Porting custom scripts

No notable changes

Porting Guide for v4.10.0

Major Changes

containers.podman

- Add podman tag module
- Add secrets driver and driver opts support

Deprecated Features

cisco.nxos

- Deprecated nxos snmp community module.
- Deprecated nxos_snmp_contact module.
- Deprecated nxos snmp host module.
- Deprecated nxos snmp location module.
- Deprecated nxos_snmp_traps module.
- Deprecated nxos_snmp_user module.

junipernetworks.junos

• 'router id' options is deprecated from junos ospf interfaces, junos ospfv2 and junos ospfv3 resuorce module.

Porting Guide for v4.9.0

Known Issues

purestorage.flashblade

• purefb_lag - The mac_address field in the response is not populated. This will be fixed in a future FlashBlade update.

Major Changes

fortinet.fortios

- Add real-world use cases in the example section for some configuration modules.
- Collect the current configurations of the modules and convert them into playbooks.
- Support FortiOS 7.0.1.
- Support member operation (delete/add extra members) on an object that has a list of members in it.
- Support selectors feature in fortios_monitor_fact and fortios_log_fact.

Porting Guide for v4.8.0

Breaking Changes

community.zabbix

• all roles now reference other roles and modules via their fully qualified collection names, which makes Ansible 2.10 minimum supported version for roles (See https://github.com/ansible-collections/community.zabbix/pull/477).

Deprecated Features

community.azure

- All community.azure.azure_rm_<resource>_facts modules are deprecated. Use azure.azcollection.azure_rm_<resource>_info modules instead (https://github.com/ansible-collections/community.azure/pull/24).
- All community.azure.azure_rm_<resource>_info modules are deprecated. Use azure.azcollection.azure_rm_<resource>_info modules instead (https://github.com/ansible-collections/community.azure/pull/24).
- community.azure.azure_rm_managed_disk and community.azure.azure_rm_manageddisk are deprecated. Use azure.azcollection.azure_rm_manageddisk instead (https://github.com/ansible-collections/community.azure/pull/24).
- community.azure.azure_rm_virtualmachine_extension and community.azure.azure_rm_virtualmachineextension are deprecated.
 Use azure.azcollection.azure_rm_virtualmachineextension instead (https://github.com/ansible-collections/community.azure/pull/24).
- community.azure.azure_rm_virtualmachine_scaleset and community.azure.azure_rm_virtualmachinescaleset are deprecated.
 Use azure.azcollection.azure_rm_virtualmachinescaleset instead (https://github.com/ansible-collections/community.azure/pull/24).

community.hashi vault

• lookup hashi_vault - the [lookup_hashi_vault] section in the ansible.cfg file is deprecated and will be removed in collection version 3.0.0. Instead, the section [hashi_vault_collection] can be used, which will apply to all plugins in the collection going forward (https://github.com/ansible-collections/community.hashi_vault/pull/144).

Porting Guide for v4.7.0

Major Changes

openvswitch.openvswitch

• By mistake we tagged the repo to 2.0.0 and as it wasn't intended and cannot be reverted we're releasing 2.0.1 to make the community aware of the major version update.

Deprecated Features

cisco.ios

Deprecated ios_ntp modules.

cisco.nxos

• Deprecated nxos_ntp, nxos_ntp_options, nxos_ntp_auth modules.

community.vmware

vmware_guest_vnc - Sphere 7.0 removed the built-in VNC server (https://docs.vmware.com/en/VMware-vSphere/7.0/rn/vsphere-esxi-vcenter-server-70-release-notes.html#productsupport).

junipernetworks.junos

• Deprecated router_id from ospfv2 resource module.

Porting Guide for v4.6.0

Major Changes

containers.podman

- Add systemd generation for pods
- Generate systemd service files for containers

gluster.gluster

• enable client.ssl,server.ssl before starting the gluster volume (https://github.com/gluster/gluster-ansible-collection/pull/19)

Deprecated Features

community.grafana

grafana dashboard lookup - Providing a mangled version of the API key is no longer preferred.

Porting Guide for v4.5.0

Major Changes

hetzner.hcloud

• Introduction of placement groups

ovirt.ovirt

• remove_stale_lun - Add role for removing stale LUN (https://bugzilla.redhat.com/1966873).

Deprecated Features

ansible.netcommon

• network_cli - The paramiko_ssh setting look_for_keys was set automatically based on the values of the password and private_key_file options passed to network_cli. This option can now be set explicitly, and the automatic setting of look for keys will be removed after 2024-01-01 (https://github.com/ansible-collections/ansible.netcommon/pull/271).

cisco.ios

- Deprecated ios bgp in favor of ios bgp global and ios bgp address family.
- Remove testing with provider for ansible-test integration jobs. This helps prepare us to move to network-ee integration tests.

junipernetworks.junos

• Deprecated router_id from ospfv3 resource module.

Porting Guide for v4.4.0

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.

Danvagated Features

Deprecateu reatures

cisco.josxr

• The iosxr_logging module has been deprecated in favor of the new iosxr_logging_global resource module and will be removed in a release after '2023-08-01'.

cisco.nxos

• The nxos_logging module has been deprecated in favor of the new nxos_logging_global resource module and will be removed in a release after '2023-08-01'.

community.docker

• docker_container - the new command_handling's default value, compatibility, is deprecated and will change to correct in community.docker 3.0.0. A deprecation warning is emitted by the module in cases where the behavior will change. Please note that ansible-core will output a deprecation warning only once, so if it is shown for an earlier task, there could be more tasks with this warning where it is not shown (https://github.com/ansible-collections/community.docker/pull/186).

junipernetworks.junos

• The junos_logging module has been deprecated in favor of the new junos_logging_global resource module and will be removed in a release after '2023-08-01'.

vyos.vyos

• The vyos_logging module has been deprecated in favor of the new vyos_logging_global resource module and will be removed in a release after "2023-08-01".

Porting Guide for v4.3.0

Major Changes

netapp.cloudmanager

Adding stage environment to all modules in cloudmanager

Deprecated Features

community.hashi vault

• hashi_vault collection - support for Python 3.5 will be dropped in version 2.0.0 of community.hashi_vault (https://github.com/ansible-collections/community.hashi_vault/issues/81).

Porting Guide for v4.2.0

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_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.vmware

• vmware_object_custom_attributes_info - added a new module to gather custom attributes of an object (https://github.com/ansible-collections/community.vmware/pull/851).

dellemc.openmanage

- idrac_server_config_profile Added support for exporting and importing Server Configuration Profile through HTTP/HTTPS share.
- ome device group Added support for adding devices to a group using the IP addresses of the devices and group ID.

fortinet.fortios

- New module fortios monitor fact.
- Support Fortios 7.0.
- Support Log APIs.

Deprecated Features

• The community.kubernetes collection is being renamed to kubernetes.core. In Ansible 5, community.kubernetes will be replaced by an empty collection which has deprecated redirects for all the current content to kubernetes.core. If you are using FQCNs starting with community.kubernetes., please update them to kubernetes.core now. Note that kubernetes.core has been included in Ansible since Ansible 3.0.0 (https://github.com/ansible-community/community-topics/issues/22).

ansible.windows

- win_updates Deprecated the filtered_reason return value for each filtered up in favour of filtered_reasons. This has been done to show all the reasons why an update was filtered and not just the first reason.
- win_updates Deprecated the use scheduled task option as it is no longer used.
- win_updates Deprecated the whitelist and blacklist options in favour of accept_list and reject_list respectively to conform to the new standards used in Ansible for these types of options.

community.general

- ali_instance_info marked removal version of deprecated parameters availability_zone and instance_names
 (https://github.com/ansible-collections/community.general/issues/2429).
- serverless deprecating parameter functions because it was not used in the code (https://github.com/ansible-collections/community.general/pull/2845).

community.hashi_vault

• hashi_vault collection - support for Python 2 will be dropped in version 2.0.0 of community.hashi_vault (https://github.com/ansible-collections/community.hashi_vault/issues/81).

Porting Guide for v4.1.0

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_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

cloudscale_ch.cloud

• Add custom image module

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).

dellemc.openmanage

- ome firmware baseline Module supports check mode, and allows the modification and deletion of firmware baselines.
- ome firmware catalog Module supports check mode, and allows the modification and deletion of firmware catalogs.

fortinet.fortios

- Improve fortios configuration fact to use multiple selectors concurrently.
- Support check mode in all cofiguration API-based modules.
- Support filtering for fact gathering modules fortios_configuration_fact and fortios_monitor_fact.
- Support moving policy in firewall central snat map.
- Unify schemas for monitor API.

netbox.netbox

• packages is now a required Python package and gets installed via Ansible 2.10+.

Removed Features

ansible.windows

• win reboot - Removed shutdown timeout and shutdown timeout sec which has not done anything since Ansible 2.5.

Deprecated Features

ansible.windows

• win_reboot - Unreachable hosts can be ignored with ignore_errors: True, this ability will be removed in a future version. Use ignore_unreachable: True to ignore unreachable hosts instead. - https://github.com/ansible-collections/ansible.windows/issues/62

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).

community.general

- All inventory and vault scripts will be removed from community.general in version 4.0.0. If you are referencing them, please update your references to the new contrib-scripts GitHub repository so your workflow will not break once community.general 4.0.0 is released (https://github.com/ansible-collections/community.general/pull/2697).
- The nios, nios_next_ip, nios_next_network lookup plugins, the nios documentation fragment, and the nios_host_record, nios_ptr_record, nios_mx_record, nios_fixed_address, nios_zone, nios_member, nios_a_record, nios_aaaa_record, nios_network, nios_dns_view, nios_txt_record, nios_naptr_record, nios_srv_record, nios_cname_record, nios_nsgroup, and nios_network_view module have been deprecated and will be removed from community.general 5.0.0. Please install the infoblox.nios_modules collection instead and use its plugins and modules (https://github.com/ansible-collections/community.general/pull/2458).
- The vendored copy of <code>ipaddress</code> will be removed in community.general 4.0.0. Please switch to <code>ipaddress</code> from the Python 3 standard library, or from pypi, if your code relies on the vendored version of <code>ipaddress</code> (https://github.com/ansible-collections/community.general/pull/2459).
- linode parameter backupsenabled is deprecated and will be removed in community.general 5.0.0 (https://github.com/ansible-collections/community.general/pull/2410).
- Ixd inventory plugin the plugin will require ipaddress installed when used with Python 2 from community.general 4.0.0 on ipaddress is part of the Python 3 standard library, but can be installed for Python 2 from pypi (https://github.com/ansible-collections/community.general/pull/2459).
- scaleway_security_group_rule the module will require ipaddress installed when used with Python 2 from community.general 4.0.0 on. ipaddress is part of the Python 3 standard library, but can be installed for Python 2 from pypi (https://github.com/ansible-collections/community.general/pull/2459).

inspur.sm

- add_ad_group This feature will be removed in inspur.smadd_ad_group 3.0.0. replaced with inspur.smad_group.
- add ldap group This feature will be removed in inspur.sm.add ldap group 3.0.0. replaced with inspur.sm.ldap group.
- add user This feature will be removed in inspur.sm.add user 3.0.0. replaced with inspur.sm.user.
- add_user_group This feature will be removed in inspur.smadd_user_group 3.0.0. replaced with inspur.smuser_group.
- del ad group This feature will be removed in inspur.sm.del ad group 3.0.0. replaced with inspur.sm.ad group.
- del Idap group This feature will be removed in inspur.sm.del Idap group 3.0.0. replaced with inspur.sm.ldap group.
- del_user This feature will be removed in inspur.sm.del_user 3.0.0. replaced with inspur.sm.user.
- del user group This feature will be removed in inspur.smdel user group 3.0.0. replaced with inspur.smuser group.
- edit ad group This feature will be removed in inspur.smedit ad group 3.0.0. replaced with inspur.sm.ad group.
- edit ldap group This feature will be removed in inspur.smedit ldap group 3.0.0. replaced with inspur.sm.ldap group.
- edit user This feature will be removed in inspur.sm.edit user 3.0.0. replaced with inspur.sm.user.
- edit user group This feature will be removed in inspur.sm.edit user group 3.0.0. replaced with inspur.sm.user group.

Porting Guide for v4.0.0

Known Issues

• ansible-test - The pylint sanity test no longer correctly detects "bad" variable names for non-constants. See https://github.com/PyCQA/pylint/issues/3701 for additional details.

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.

fortinet.fortios

• Modules for monitor API are not versioned yet.

Breaking Changes

Ansible-core

- Made SCM collections be reinstalled regardless of --force being present.
- NetBSD virtualization facts (specifically ansible_virtualization_type) now returns a more accurate value by checking
 the value of the machdep.hypervisor sysctl key. This change is breaking because in some cases previously, we would
 erroneously report xen even when the target is not running on Xen. This prevents that behavior in most cases.
 (https://github.com/ansible/ansible/issues/69352)
- Replaced the in-tree dependency resolver with an external implementation that pip >= 20.3 uses now by default â€" resolvelib. (https://github.com/ansible/issues/71784)
- The meta module now supports tags for user-defined tasks. Internal meta tasks continue to always run. (https://github.com/ansible/ansible/issues/64558)
- ansible-galaxy login command has been removed (see https://github.com/ansible/ansible/issues/71560)

ansible.netcommon

Removed vendored ipaddress package from collection. If you use
 ansible_collections.ansible.netcommon.plugins.module_utils.compat.ipaddress in your collection, you will need to change this
 to import ipaddress instead. If your content using ipaddress supports Python 2.7, you will additionally need to make sure that
 the user has the ipaddress package installed. Please refer to
 https://docs.ansible.com/ansible/latest/dev_guide/developing_modules_best_practices.html#importing-and-using-shared-code
 to see how to safely import external packages that may be missing from the user's system A backport of ipaddress for Python
 2.7 is available at https://pypi.org/project/ipaddress/

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).

community.general

- If you use Ansible 2.9 and these plugins or modules from this collection, community.general 3.0.0 results in errors when trying to use the DellEMC content by FQCN, like <code>community.general.idrac_firmware</code>. 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 (<code>dellemc.openmanage.idrac_firmware</code> for the previous example) and to make sure that you have <code>dellemc.openmanage</code> installed.
 - If you use ansible-base 2.10 or newer and did not install Ansible 4.0.0, but installed (and/or upgraded) community.general manually, you need to make sure to also install the dellemc.openmanage collection if you are using any of these plugins or modules. While ansible-base 2.10 or newer can use the redirects that community.general 3.0.0 adds, the collection they point to (such as dellemc.openmanage) must be installed for them to work.
- gitlab_deploy_key if for an already existing key title a different public key was given as parameter nothing happened, now this changed so that the public key is updated to the new value (https://github.com/ansible-collections/community.general/pull/1661).
- java keystore instead of failing, now overwrites keystore if the alias (name) is changed. This was originally the intended

behavior, but did not work due to a logic error. Make sure that your playbooks and roles do not depend on the old behavior of failing instead of overwriting (https://github.com/ansible-collections/community.general/issues/1671).

- java_keystore instead of failing, now overwrites keystore if the passphrase is changed. Make sure that your playbooks and roles do not depend on the old behavior of failing instead of overwriting (https://github.com/ansible-collections/community.general/issues/1671).
- one_image use pyone instead of python-oca (https://github.com/ansible-collections/community.general/pull/2032).
- 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).

fortinet.fortios

- Generic FortiOS Module FOS module to issue generic request with Ansible.
- Support for FOS Monitor API several modules are new for monitor API.
- Unified Collection The fortios collection itself will be adapting any FOS platforms.

servicenow.servicenow

• auth field now required for anything other than Basic authentication

the foreman. foreman

All role variables are now prefixed with foreman_ to avoid clashes with similarly named variables from roles outside this
collection.

Major Changes

Ansible-core

- A collection can be reinstalled with new version requirements without using the --force flag. The collection's dependencies will also be updated if necessary with the new requirements. Use --upgrade to force transitive dependency updates.
- AnsibleModule use ArgumentSpecValidator class for validating argument spec and remove private methods related to argument spec validation. Any modules using private methods should now use the ArgumentSpecValidator class or the appropriate validation function.
- Declared resolvelib >= 0.5.3, < 0.6.0 a direct dependency of ansible-core. Refs: https://github.com/sarugaku/resolvelib https://pypi.org/p/resolvelib https://pradyunsg.me/blog/2020/03/27/pip-resolver-testing
- It became possible to install Ansible Collections from local folders and namespaces folder similar to SCM structure with multiple collections.
- It became possible to upgrade Ansible collections from Galaxy servers using the --upgrade option with ansible-galaxy collection install.
- Support for role argument specification validation at role execution time. When a role contains an argument spec, an implicit validation task is inserted at the start of role execution.
- add ArgumentSpecValidator class for validating parameters against an argument spec outside of AnsibleModule (https://github.com/ansible/ansible/pull/73335)
- 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.

ansible.netcommon

• Remove deprecated connection arguments from netconf_config

arista.eos

• Requires ansible.netcommon v2.0.0+ to support *ansible_network_single_user_mode* and *ansible_network_import_modules* - Please refer to ansible.netcommon changelog for more details.

cisco.asa

- Please refer to ansible.netcommon changelog https://github.com/ansible-netcommon-collection-release-notes for more details.
- Requires ansible.netcommon v2.0.0+ to support ansible _network _single _user _mode and ansible network import modules.

cisco.ios

• Please refer to ansible.netcommon changelog for more details.

• Requires ansible.netcommon v2.0.0+ to support ansible_network_single_user_mode and ansible network import modules.

cisco.iosxr

- Please refer to ansible.netcommon changelog for more details.
- Requires ansible.netcommon v2.0.0+ to support ansible_network_single_user_mode and ansible network import modules.
- ipaddress is no longer in ansible.netcommon. For Python versions without ipaddress (< 3.0), the ipaddress package is now required.

cisco.nxos

- Please refer to ansible.netcommon changelog for more details.
- Requires ansible.netcommon v2.0.0+ to support ansible_network_single_user_mode and ansible_network_import_modules.

community.grafana

• introduce "skip version check" parameter in grafana teams and grafana folder modules (#147)

community.mysql

- mysql_replication add deprecation warning that the Is_Slave and Is_Master return values will be replaced with Is_Primary and Is_Replica in community.mysql 3.0.0 (https://github.com/ansible-collections/community.mysql/pull/147).
- mysql_replication the choices of the state option containing master will be finally replaced with the alternative primary choices in community.mysql 3.0.0, add deprecation warnings (https://github.com/ansible-collections/community.mysql/pull/150).
- 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 return value Is_Slave and Is_Master will be replaced with Is_Replica and Is_Primary in community.mysql 3.0.0 (https://github.com/ansible-collections/community.mysql/issues/145).
- 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).
- mysql_replication the word master in messages returned by the module will be replaced with primary in community.mysql 3.0.0 (https://github.com/ansible-collections/community.mysql/issues/145).
- mysql_replication the word slave in messages returned by the module replaced with replica (https://github.com/ansible-collections/community.mysql/issues/98).
- mysql_user the REQUIRESSL 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).

fortinet.fortios

- New module fortios configuration fact
- New module fortios json generic
- New module fortios monitor
- New module fortios monitor fact

junipernetworks.junos

- Please refer to ansible.netcommon changelog for more details.
- Requires ansible.netcommon v2.0.0+ to support ansible _network _single _user _mode and ansible _network _import _modules.

netapp.ontap

• na ontap autosupport - Added REST support to the module.

openvswitch.openvswitch

• There is no major changes for this particular release and it was tagged by mistake and cannot be reverted.

servicenow.servicenow

- refactored client to inherit from AnsibleModule
- supports OpenID Connect authentication protocol
- supports bearer tokens for authentication

vyos.vyos

- Please refer to ansible netcommon changelog for more details.
- Requires ansible.netcommon v2.0.0+ to support ansible_network_single_user_mode and ansible network import modules
- ipaddress is no longer in ansible.netcommon. For Python versions without ipaddress (< 3.0), the ipaddress package is now required.

Removed Features

Ansible-core

- Removed SharedPluginLoaderObj class from ansible.plugins.strategy. It was deprecated in favor of using the standard plugin loader.
- Removed get item() alias from callback plugin base class which had been deprecated in favor of get item label().
- The "user" parameter was previously deprecated and is now removed in favor of "scope"
- The deprecated ansible.constants.BECOME METHODS has been removed.
- \bullet The deprecated <code>ansible.constants.get_config()</code> has been removed.
- The deprecated ansible.constants.mk_boolean() has been removed.
- with_* loops are no longer optimized for modules whose name parameters can take lists (mostly package managers). Use name instead of looping over individual names with with items and friends.

community.general

• The ome_device_info, idrac_firmware and idrac_server_config_profile modules have now been migrated from community.general to the dellemc.openmanage 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.idrac_firmware â†' dellemc.openmanage.idrac firmware) and make sure to install the dellemc.openmanage collection.

- The deprecated ali_instance_facts module has been removed. Use ali_instance_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated gluster_heal_info module has been removed. Use gluster.gluster.gluster_heal_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated gluster_peer module has been removed. Use gluster.gluster_peer instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated gluster_volume module has been removed. Use gluster.gluster.gluster_volume instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated helm module has been removed. Use community.kubernetes.helm instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated hpilo_facts module has been removed. Use hpilo_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated idrac_redfish_facts module has been removed. Use idrac_redfish_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated jenkins_job_facts module has been removed. Use jenkins_job_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ldap_attr instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated memset_memstore_facts module has been removed. Use memset_memstore_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated memset_server_facts module has been removed. Use memset_server_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated na_ontap_gather_facts module has been removed. Use netapp.ontap.na_ontap_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated nginx_status_facts module has been removed. Use nginx_status_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated one_image_facts module has been removed. Use one_image_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated onepassword_facts module has been removed. Use onepassword_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview datacenter facts module has been removed. Use oneview datacenter info instead

- (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview_enclosure_facts module has been removed. Use oneview_enclosure_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview_ethernet_network_facts module has been removed. Use oneview_ethernet_network_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview_fc_network_facts module has been removed. Use oneview_fc_network_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview_fcoe_network_facts module has been removed. Use oneview_fcoe_network_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview_logical_interconnect_group_facts module has been removed. Use oneview_logical_interconnect_group_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview_network_set_facts module has been removed. Use oneview_network_set_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated oneview san manager facts module has been removed. Use oneview san manager info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated online_server_facts module has been removed. Use online_server_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated online_user_facts module has been removed. Use online_user_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt module has been removed. Use ovirt.ovirt.ovirt_vm instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_affinity_label_facts module has been removed. Use ovirt.ovirt_affinity_label_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_api_facts module has been removed. Use ovirt.ovirt_api_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_cluster_facts module has been removed. Use ovirt.ovirt_cluster_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_datacenter_facts module has been removed. Use ovirt.ovirt_ovirt_datacenter_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_disk_facts module has been removed. Use ovirt.ovirt_ovirt_disk_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_event_facts module has been removed. Use ovirt.ovirt_event_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_external_provider_facts module has been removed. Use ovirt.ovirt_external_provider_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_group_facts module has been removed. Use ovirt.ovirt_group_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_host_facts module has been removed. Use ovirt.ovirt_host_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_host_storage_facts module has been removed. Use ovirt.ovirt_ovirt_host_storage_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_network_facts module has been removed. Use ovirt.ovirt_network_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_nic_facts module has been removed. Use ovirt.ovirt_nic_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_permission_facts module has been removed. Use ovirt.ovirt_ovirt_permission_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_quota_facts module has been removed. Use ovirt.ovirt_quota_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_scheduling_policy_facts module has been removed. Use ovirt.ovirt_scheduling_policy_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_snapshot_facts module has been removed. Use ovirt.ovirt_snapshot_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt storage domain facts module has been removed. Use ovirt ovirt storage domain info instead

- (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_storage_template_facts module has been removed. Use ovirt.ovirt_storage_template_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_storage_vm_facts module has been removed. Use ovirt.ovirt_storage_vm_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_tag_facts module has been removed. Use ovirt.ovirt_tag_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_template_facts module has been removed. Use ovirt.ovirt_ovirt_template_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_user_facts module has been removed. Use ovirt.ovirt_user_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_vm_facts module has been removed. Use ovirt.ovirt_vm_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated ovirt_vmpool_facts module has been removed. Use ovirt.ovirt_vmpool_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated purefa_facts module has been removed. Use purestorage.flasharray.purefa_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated purefb_facts module has been removed. Use purestorage.flasharray.purefb_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated python_requirements_facts module has been removed. Use python_requirements_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated redfish_facts module has been removed. Use redfish_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_image_facts module has been removed. Use scaleway_image_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_ip_facts module has been removed. Use scaleway_ip_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_organization_facts module has been removed. Use scaleway_organization_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_security_group_facts module has been removed. Use scaleway_security_group_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_server_facts module has been removed. Use scaleway_server_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_snapshot_facts module has been removed. Use scaleway_snapshot_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated scaleway_volume_facts module has been removed. Use scaleway_volume_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated smartos_image_facts module has been removed. Use smartos_image_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated vertica_facts module has been removed. Use vertica_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The deprecated xenserver_guest_facts module has been removed. Use xenserver_guest_info instead (https://github.com/ansible-collections/community.general/pull/1924).
- The ovirt_facts does fragment has been removed (https://github.com/ansible-collections/community.general/pull/1924).
- airbrake_deployment removed deprecated token parameter. Use project_id and project_key instead (https://github.com/ansible-collections/community.general/pull/1926).
- bigpanda the alias message has been removed. Use deployment_message instead (https://github.com/ansible-collections/community.general/pull/1926).
- cisco_spark, cisco_webex the alias message has been removed. Use msg instead (https://github.com/ansible-collections/community.general/pull/1926).
- clc_aa_policy the wait parameter has been removed. It did not have any effect (https://github.com/ansible-collections/community.general/pull/1926).
- datadog_monitor the alias message has been removed. Use notification_message instead (https://github.com/ansible-collections/community.general/pull/1926).

- django_manage the parameter liveserver has been removed (https://github.com/ansible-collections/community.general/pull/1926).
- idrac_redfish_config the parameters manager_attribute_name and manager_attribute_value have been removed. Use manager_attributes instead (https://github.com/ansible-collections/community.general/pull/1926).
- iso_extract the alias thirsty has been removed. Use force instead (https://github.com/ansible-collections/community.general/pull/1926).
- Idap_entry the params parameter is now completely removed. Using it already triggered an error since community.general 0.1.2 (https://github.com/ansible-collections/community.general/pull/2257).
- pulp_repo the feed_client_cert parameter no longer defaults to the value of the client_cert parameter (https://github.com/ansible-collections/community.general/pull/1926).
- pulp_repo the feed_client_key parameter no longer defaults to the value of the client_key parameter (https://github.com/ansible-collections/community.general/pull/1926).
- pulp_repo the alias ca_cert has been removed. Use feed_ca_cert instead (https://github.com/ansible-collections/community.general/pull/1926).
- rax unused parameter service removed (https://github.com/ansible-collections/community.general/pull/2020).
- redfish modules issuing a data modification command without specifying the ID of the target System, Chassis or Manager resource when there is more than one is no longer allowed. Use the resource_id option to specify the target ID (https://github.com/ansible-collections/community.general/pull/1926).
- redfish_config the parameters bios_attribute_name and bios_attribute_value have been removed. Use bios_attributes instead (https://github.com/ansible-collections/community.general/pull/1926).
- syspatch the apply parameter has been removed. This is the default mode, so simply removing it will not change the behavior (https://github.com/ansible-collections/community.general/pull/1926).
- xbps the force parameter has been removed. It did not have any effect (https://github.com/ansible-collections/community.general/pull/1926).

community.network

- The deprecated community.network.ce_sflow parameters: rate_limit, rate_limit_slot, and forward_enp_slot have been removed (https://github.com/ansible-collections/community.network/pull/255).
- The deprecated community.network.sros netconf plugin has been removed. Use nokia.sros.md instead (https://github.com/ansible-collections/community.network/pull/255).

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 moduke. See porting guides section at https://clouddocs.f5.com/products/orchestration/ansible/devel/usage/porting-guides.html

fortinet.fortios

- Removed module fortios_facts
- Removed module fortios registration forticare
- Removed module fortios registration vdom
- Removed module fortios_system_config_backup_restore
- Removed module fortios system vmlicense

Deprecated Features

Ansible-core

- Starting in 2.14, shell and command modules will no longer have the option to warn and suggest modules in lieu of commands. The warn parameter to these modules is now deprecated and defaults to False. Similarly, the COMMAND_WARNINGS configuration option is also deprecated and defaults to False. These will be removed and their presence will become an error in 2.14.
- apt_key the parameter key does not have any effect, has been deprecated and will be removed in ansible-core version 2.14 (https://github.com/ansible/ansible/pull/70319).
- psrp Set the minimum version of pypsrp to 0.4.0.

ansible.netcommon

• Deprecate cli parse module and textfsm, ttp, xml, json parser plugins as they are moved to ansible utils collection

cisco.nxos

- Deprecated nxos bgp af in favour of nxos bgp address family resource module.
- Deprecated nxos bgp neighbor af in favour of nxos bgp neighbor address family resource module.

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).
- 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.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/184).
- 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).
- cpanm parameter system_lib deprecated in favor of using become (https://github.com/ansible-collections/community.general/pull/2218).
- 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 <code>show_diff</code>, 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).

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

$f5 networks. f5_modules$

• Support for Python versions earlier than 3.5 is being deprecated