Ansible 5 Porting Guide

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Ansible 5 is based on Ansible-core 2.12.

We suggest you read this page along with the Ansible 5 Changelog to understand what updates you may need to make.

Playbook

• When calling tasks and setting async, setting ANSIBLE_ASYNC_DIR under environment: is no longer valid. Instead, use the shell configuration variable async_dir, for example by setting ansible_async_dir:

```
tasks:
  - dnf:
    name: '*'
    state: latest
    async: 300
    poll: 5
    vars:
        ansible_async_dir: /path/to/my/custom/dir
```

• The undef() function is added to the templating environment for creating undefined variables directly in a template. Optionally, a hint may be provided for variables which are intended to be overridden.

```
vars:
  old: "{{ undef }}"
```

```
new: "{{ undef() }}"
new_with_hint: "{{ undef(hint='You must override this variable') }}"
```

Python Interpreter Discovery

The default value of INTERPRETER_PYTHON_FALLBACK changed to auto. The list of Python interpreters in INTERPRETER_PYTHON_FALLBACK changed to prefer Python 3 over Python 2. The combination of these two changes means the new default behavior is to quietly prefer Python 3 over Python 2 on remote hosts. Previously a deprecation warning was issued in situations where interpreter discovery would have used Python 3 but the interpreter was set to /usr/bin/python.

INTERPRETER_PYTHON_FALLBACK can be changed from the default list of interpreters by setting the ansible interpreter python fallback variable.

See ref. interpreter discovery documentation <interpreter_discovery>` for more details.

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\porting_guides\[ansible-devel] [docs] [docsite] [rst] [porting_guides] porting_guide_5.rst, line 53); backlink
Unknown interpreted text role "ref".
```

Command Line

- Python 3.8 on the controller node is a hard requirement for this release. The command line scripts will not function with a lower Python version.
- ansible-vault no longer supports PyCrypto and requires cryptography.

Deprecated

- Python 2.6 on the target node is deprecated in this release. ansible-core 2.13 will remove support for Python 2.6.
- Bare variables in conditionals: when conditionals no longer automatically parse string booleans such as "true" and "false" into actual booleans. Any variable containing a non-empty string is considered true. This was previously configurable with the CONDITIONAL_BARE_VARS configuration option (and the ANSIBLE_CONDITIONAL_BARE_VARS environment variable). This setting no longer has any effect. Users can work around the issue by using the |bool filter:

```
vars:
   teardown: 'false'

tasks:
   - include_tasks: teardown.yml
   when: teardown | bool

- include_tasks: provision.yml
   when: not teardown | bool
```

• The _remote_checksum() method in ActionBase is deprecated. Any action plugin using this method should use execute remote stat() instead.

Modules

- cron now requires name to be specified in all cases.
- cron no longer allows a reboot parameter. Use special_time: reboot instead.
- hostname On FreeBSD, the before result will no longer be "temporarystub" if permanent hostname file does not exist. It will instead be "" (empty string) for consistency with other systems.
- hostname On OpenRC and Solaris based systems, the before result will no longer be "UNKNOWN" if the permanent hostname file does not exist. It will instead be "" (empty string) for consistency with other systems.
- pip now uses the pip Python module installed for the Ansible module's Python interpreter, if available, unless executable or virtualenv were specified.

Modules removed

The following modules no longer exist:

• No notable changes

Deprecation notices

No notable changes

Noteworthy module changes

Plugins

- unique filter with Jinja2 < 2.10 is case-sensitive and now raise coherently an error if case_sensitive=False instead of when case sensitive=True.
- Set theory filters (intersect, difference, symmetric_difference and union) are now case-sensitive. Explicitly use case_sensitive=False to keep previous behavior. Note: with Jinja2 < 2.10, the filters were already case-sensitive by default.
- password_hash` now uses passlib defaults when an option is unspecified, e.g. bcrypt_sha256 now default to the "2b" format and if the "2a" format is required it must be specified.

Porting custom scripts

No notable changes

Networking

No notable changes

Porting Guide for v5.6.0

Added Collections

• community.sap (version 1.0.0)

Deprecated Features

cisco.ios

• Deprecates lldp module.

Porting Guide for v5.5.0

Known Issues

community.general

- pacman update_cache cannot differentiate between up to date and outdated package lists and will report changed in both situations (https://github.com/ansible-collections/community.general/pull/4318).
- pacman binaries specified in the executable parameter must support --print-format in order to be used by this module.
 In particular, AUR helper yay is known not to currently support it (https://github.com/ansible-collections/community.general/pull/4312).

Deprecated Features

community.general

• pacman - from community.general 5.0.0 on, the changed status of update_cache will no longer be ignored if name or upgrade is specified. To keep the old behavior, add something like register: result and changed_when: result.packages | length > 0 to your task (https://github.com/ansible-collections/community.general/pull/4329).

Porting Guide for v5.4.0

Major Changes

chocolatey.chocolatey

win_chocolatey - Added choco_args option to pass additional arguments directly to Chocolatey.

vyos.vyos

Add 'pool' as value to server key in ntp_global.

Deprecated Features

cisco.ios

• ios acls - Deprecated fragment attribute added boolean alternate as enable fragment.

Porting Guide for v5.3.0

Major Changes

f5networks.f5_modules

- bigip_device_info pagination logic has also been added to help with api stability.
- bigip_device_info the module no longer gathers information from all partitions on device. This change will stabalize the
 module by gathering resources only from the given partition and prevent the module from gathering way too much information
 that might result in crashing.

Deprecated Features

community.general

• mail callback plugin - not specifying sender is deprecated and will be disallowed in community.general 6.0.0 (https://github.com/ansible-collections/community.general/pull/4140).

Porting Guide for v5.2.0

Known Issues

dellemc.openmanage

- idrac_user Issue(192043) The 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_application_alerts_smtp Issue(212310) The module does not provide a proper error message if the destination address is more than 255 characters.
- ome_application_alerts_syslog Issue(215374) The module does not provide a proper error message if the destination address is more than 255 characters.
- ome_device_local_access_configuration Issue(215035) The module reports Successfully updated the local access setting if an unsupported value is provided for the parameter timeout_limit. However, this value is not actually applied on OpenManage Enterprise Modular.
- ome_device_local_access_configuration Issue(217865) The module does not display a proper error message if an unsupported value is provided for the user defined and lcd_language parameters.
- ome_device_network_services Issue(212681) The module does not provide a proper error message if unsupported values are provided for the parameters- port_number, community_name, max_sessions, max_auth_retries, and idle_timeout.
- ome_device_power_settings Issue(212679) The module errors out with the following message if the value provided for the parameter power_cap is not within the supported range of 0 to 32767, Unable to complete the request because PowerCap does not exist or is not applicable for the resource URI.
- ome_smart_fabric_uplink Issue(186024) The module does not allow the creation of multiple uplinks of the same name even though it is supported by OpenManage Enterprise Modular. If an uplink is created using the same name as an existing uplink, the existing uplink is modified.

purestorage.flasharray

• purefa_admin - Once max_login and lockout have been set there is currently no way to rest these to zero except through the FlashArray GUI

Major Changes

cisco.meraki

• meraki mr radio - New module

Deprecated Features

purestorage.flasharray

• purefa sso - Deprecated in favor of M(purefa admin). Will be removed in Collection 2.0

Porting Guide for v5.1.0

Known Issues

dellemc.openmanage

- idrac_user Issue(192043) The 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_application_alerts_smtp Issue(212310) The module does not provide a proper error message if the destination address is more than 255 characters.
- ome_application_alerts_syslog Issue(215374) The module does not provide a proper error message if the
 destination address is more than 255 characters.
- ome_device_network_services Issue(212681) The module does not provide a proper error message if unsupported values are provided for the parameters- port number, community name, max sessions, max auth retries, and idle timeout.
- ome_device_power_settings Issue(212679) The module errors out with the following message if the value provided for the parameter power_cap is not within the supported range of 0 to 32767, Unable to complete the request because PowerCap does not exist or is not applicable for the resource URI.
- ome_smart_fabric_uplink Issue(186024) The module does not allow the creation of multiple uplinks of the same name even though it 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

containers.podman

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

Removed Features

community.hashi vault

• the "legacy" integration test setup has been removed; this does not affect end users and is only relevant to contributors (https://github.com/ansible-collections/community.hashi_vault/pull/191).

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.

community.general

• module_helper module utils - deprecated the attribute ModuleHelper.VarDict (https://github.com/ansible-collections/community.general/pull/3801).

community.hashi vault

- Support for Ansible 2.9 and ansible-base 2.10 is deprecated, and will be removed in the next major release (community.hashi_vault 3.0.0) next spring (https://github.com/ansible-community/community-topics/issues/50, https://github.com/ansible-collections/community.hashi_vault/issues/189).
- aws_iam_login auth method the aws_iam_login method has been renamed to aws_iam. The old name will be removed in collection version 3.0.0. Until then both names will work, and a warning will be displayed when using the old name (https://github.com/ansible-collections/community.hashi vault/pull/193).

junipernetworks.junos

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

Porting Guide for v5.0.1

Major Changes

• Raised python requirement of the ansible package from >= 2.7 to >= 3.8 to match ansible-core

Porting Guide for v5.0.0

Added Collections

- cisco.ise (version 1.2.1)
- cloud.common (version 2.1.0)
- community.ciscosmb (version 1.0.4)
- community.dns (version 2.0.3)
- infoblox.nios_modules (version 1.1.2)
- netapp.storagegrid (version 21.7.0)

Known Issues

Ansible-core

• ansible-test - Tab completion anywhere other than the end of the command with the new composite options will provide incorrect results. See https://github.com/kislyuk/argcomplete/issues/351 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_device_power_settings Issue(212679) The ome_device_power_settings module errors out with the following message if the value provided for the parameter power_cap is not within the supported range of 0 to 32767, Unable to complete the request because PowerCap does not exist or is not applicable for the resource URI.
- 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 it is supported by OpenManage Enterprise Modular. If an uplink is created using the same name as an existing uplink, the existing uplink is modified.
- 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.

purestorage.flashblade

purefb lag - The mac address field in the response is not populated. This will be fixed in a future FlashBlade update.

Breaking Changes

Ansible-core

- Action, module, and group names in module defaults must be static values. Their values can still be templates.
- Fully qualified 'ansible.legacy' plugin names are not included implicitly in action groups.
- Unresolvable groups, action plugins, and modules in module_defaults are an error.
- ansible-test Automatic installation of requirements for "cloud" test plugins no longer occurs. The affected test plugins are aws, azure, cs, hcloud, nios, opennebula, openshift and vcenter. Collections should instead use one of the supported integration test requirements files, such as the tests/integration/requirements.txt file.
- ansible-test The HTTP Tester is no longer available with the ansible-test shell command. Only the integration and windows-integration commands provide HTTP Tester.
- ansible-test The --disable-httptester option is no longer available. The HTTP Tester is no longer optional for tests that specify it.
- ansible-test The --httptester option is no longer available. To override the container used for HTTP Tester tests, set the ANSIBLE_HTTP_TEST_CONTAINER environment variable instead.
- ansible-test Unit tests for modules and module_utils are now limited to importing only ansible.module_utils from the ansible module.
- conditionals when conditionals no longer automatically parse string booleans such as "true" and "false" into actual booleans. Any non-empty string is now considered true. The CONDITIONAL_BARE_VARS configuration variable no longer has any effect.
- hostname Drops any remaining support for Python 2.4 by using with open() to simplify exception handling code which leaked file handles in several spots
- hostname On FreeBSD, the string temporarystub no longer gets written to the hostname file in the get methods (and in check_mode). As a result, the default hostname will now appear as '' (empty string) instead of temporarystub for consistency with other strategies. This means the before result will be different.
- hostname On OpenRC systems and Solaris, the before value will now be '' (empty string) if the permanent hostname file does not exist, for consistency with other strategies.
- intersect, difference, symmetric_difference, union filters the default behavior is now to be case-sensitive (https://github.com/ansible/ansible/issues/74255)

• unique filter - the default behavior is now to fail if Jinja2's filter fails and explicit case_sensitive=False as the Ansible's fallback is case-sensitive (https://github.com/ansible/ansible/pull/74256)

amazon.aws

- ec2_instance instance wait for state behaviour has changed. If plays require the old behavior of waiting for the instance monitoring status to become OK when launching a new instance, the action will need to specify state: started (https://github.com/ansible-collections/amazon.aws/pull/481).
- ec2_snapshot support for waiting indefinitely has been dropped, new default is 10 minutes (https://github.com/ansible-collections/amazon.aws/pull/356).
- ec2_vol_info return attachment_set is now a list of attachments with Multi-Attach support on disk. (https://github.com/ansible-collections/amazon.aws/pull/362).
- ec2_vpc_dhcp_option The module has been refactored to use boto3. Keys and value types returned by the module are now consistent, which is a change from the previous behaviour. A purge_tags option has been added, which defaults to True. (https://github.com/ansible-collections/amazon.aws/pull/252)
- ec2_vpc_dhcp_option_info Now preserves case for tag keys in return value. (https://github.com/ansible-collections/amazon.aws/pull/252)
- module_utils.core The boto3 switch has been removed from the region parameter (https://github.com/ansible-collections/amazon.aws/pull/287).
- module_utils/compat vendored copy of ipaddress removed (https://github.com/ansible-collections/amazon.aws/pull/461).
- module_utils/core updated the scrub_none_parameters function so that descend_into_lists is set to True by default (https://github.com/ansible-collections/amazon.aws/pull/297).

arista.eos

• Arista released train 4.23.X and newer and along with it replaced and deprecated lots of commands. This PR adds support for syntax changes in release train 4.23 and after. Going forward the eos modules will not support eos sw version < 4.23.

community.aws

- ec2_instance The module has been migrated to the amazon.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_instance.
- ec2_instance_info The module has been migrated to the amazon.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_instance_info.
- ec2_vpc_endpoint The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc endpoint.
- ec2_vpc_endpoint_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_endpoint_info.
- ec2_vpc_endpoint_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc endpoint info.
- ec2_vpc_endpoint_service_info The module has been migrated from the community.aws collection. Playbooks using the
 Fully Qualified Collection Name for this module should be updated to use
 amazon.aws.ec2 vpc endpoint service info.
- ec2_vpc_igw The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc_igw.
- ec2_vpc_igw_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc_igw_info.
- ec2_vpc_igw_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_igw_info.
- ec2_vpc_nat_gateway The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_nat_gateway.
- ec2_vpc_nat_gateway_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_nat_gateway_info.
- ec2_vpc_nat_gateway_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_nat_gateway_info.
- kms_info key details are now returned in the kms_keys attribute rather than the keys attribute (https://github.com/ansible-collections/community.aws/pull/648).

community.crypto

- Adjust dirName text parsing and to text converting code to conform to Sections 2 and 3 of RFC 4514. This is similar to how cryptography handles this (https://github.com/ansible-collections/community.crypto/pull/274).
- acme module utils removing compatibility code (https://github.com/ansible-collections/community.crypto/pull/290).
- acme_* modules removed vendored copy of the Python library ipaddress. If you are using Python 2.x, please make sure to install the library (https://github.com/ansible-collections/community.crypto/pull/287).
- compatibility module_utils removed vendored copy of the Python library ipaddress (https://github.com/ansible-collections/community.crypto/pull/287).

- crypto module utils removing compatibility code (https://github.com/ansible-collections/community.crypto/pull/290).
- get_certificate, openssl_csr_info, x509_certificate_info depending on the cryptography version used, the modules might not return the ASN.1 value for an extension as contained in the certificate respectively CSR, but a re-encoded version of it. This should usually be identical to the value contained in the source file, unless the value was malformed. For extensions not handled by C(cryptography) the value contained in the source file is always returned unaltered (https://github.com/ansible-collections/community.crypto/pull/318).
- module_utils removed various PyOpenSSL support functions and default backend values that are not needed for the openss1 pkcs12 module (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl_csr, openssl_csr_pipe, x509_crl the subject respectively issuer fields no longer ignore empty values, but instead fail when encountering them (https://github.com/ansible-collections/community.crypto/pull/316).
- openssl_privatekey_info by default consistency checks are not run; they need to be explicitly requested by passing check consistency=true (https://github.com/ansible-collections/community.crypto/pull/309).
- x509_crl for idempotency checks, the issuer order is ignored. If order is important, use the new issuer_ordered option (https://github.com/ansible-collections/community.crypto/pull/316).

community.dns

- All Hetzner modules and plugins which handle DNS records now work with unquoted TXT values by default. The old behavior can be obtained by setting txt_transformation=api (https://github.com/ansible-collections/community.dns/issues/48, https://github.com/ansible-collections/community.dns/pull/57, https://github.com/ansible-collections/community.dns/pull/60).
- Hosttech API creation now requires a ModuleOptionProvider object instead of an Ansible Module object. Alternatively an Ansible plugin instance can be passed (https://github.com/ansible-collections/community.dns/pull/37).
- The hetzner_dns_record_info and hosttech_dns_record_info modules have been renamed to hetzner_dns_record_set_info and hosttech dns_record_set_info, respectively (https://github.com/ansible-collections/community.dns/pull/54).
- The hosttech_dns_record module has been renamed to hosttech_dns_record_set (https://github.com/ansible-collections/community.dns/pull/31).
- The internal bulk record updating helper (bulk_apply_changes) now also returns the records that were deleted, created or updated (https://github.com/ansible-collections/community.dns/pull/63).
- The internal record API no longer allows to manage comments explicitly (https://github.com/ansible-collections/community.dns/pull/63).
- When using the internal modules API, now a zone ID type and a provider information object must be passed (https://github.com/ansible-collections/community.dns/pull/27).
- hetzner_dns_record* modules implement correct handling of default TTL. The value none is now accepted and returned in this case (https://github.com/ansible-collections/community.dns/pull/52, https://github.com/ansible-collections/community.dns/issues/50).
- hetzner_dns_record, hetzner_dns_record_set, hetzner_dns_record_sets the default TTL is now 300 and no longer 3600, which equals the default in the web console (https://github.com/ansible-collections/community.dns/pull/43).
- hosttech_* module_utils completely rewrite and refactor to support new JSON API and allow to re-use provider-independent module logic (https://github.com/ansible-collections/community.dns/pull/4).
- hostech_dns_record_set the option overwrite was replaced by a new option on_existing. Specifying overwrite=true is equivalent to on_existing=replace (the new default). Specifying overwrite=false with state=present is equivalent to on_existing=keep_and_fail, and specifying overwrite=false with state=absent is equivalent to on_existing=keep_(https://github.com/ansible-collections/community.dns/pull/31).

community.docker

• docker_compose - fixed timeout defaulting behavior so that stop_grace_period, if defined in the compose file, will be used if *timeout* is not specified (https://github.com/ansible-collections/community.docker/pull/163).

community.general

- archive adding idempotency checks for changes to file names and content within the destination file (https://github.com/ansible-collections/community.general/pull/3075).
- lxd inventory plugin when used with Python 2, the plugin now needs ipaddress installed from pypi (https://github.com/ansible-collections/community.general/pull/2441).
- scaleway_security_group_rule when used with Python 2, the module now needs ipaddress installed from pypi (https://github.com/ansible-collections/community.general/pull/2441).

community.hashi vault

• connection options - there is no longer a default value for the url option (the Vault address), so a value must be supplied (https://github.com/ansible-collections/community.hashi vault/issues/83).

community.okd

• drop python 2 support (https://github.com/openshift/community.okd/pull/93).

community.routeros

- api due to a programming error, the module never failed on errors. This has now been fixed. If you are relying on the module not failing in case of idempotent commands (resulting in errors like failure: already have such address), you need to adjust your roles/playbooks. We suggest to use failed_when to accept failure in specific circumstances, for example failed_when: "'failure: already have ' in result.msg[0]" (https://github.com/ansible-collections/community.routeros/pull/39).
- api splitting commands no longer uses a naive split by whitespace, but a more RouterOS CLI compatible splitting algorithm (https://github.com/ansible-collections/community.routeros/pull/45).
- command the module now always indicates that a change happens. If this is not correct, please use <code>changed_when</code> to determine the correct changed status for a task (https://github.com/ansible-collections/community.routeros/pull/50).

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).

kubernetes.core

- Drop python 2 support (https://github.com/ansible-collections/kubernetes.core/pull/86).
- helm_plugin remove unused release_namespace parameter (https://github.com/ansible-collections/kubernetes.core/pull/85).
- helm_plugin_info remove unused release_namespace parameter (https://github.com/ansible-collections/kubernetes.core/pull/85).
- k8s_cluster_info returned apis as list to avoid being overwritten in case of multiple version (https://github.com/ansible-collections/kubernetes.core/pull/41).
- k8s_facts remove the deprecated alias from k8s_facts to k8s_info (https://github.com/ansible-collections/kubernetes.core/pull/125).

netapp.storagegrid

• This version introduces a breaking change. All modules have been renamed from nac_sg_* to na_sg_*. Playbooks and Roles must be updated to match.

Major Changes

Ansible-core

- Python Controller Requirement Python 3.8 or newer is required for the control node (the machine that runs Ansible) (https://github.com/ansible/ansible/pull/74013)
- ansible-test All "cloud" plugins which use containers can now be used with all POSIX and Windows hosts. Previously the plugins did not work with Windows at all, and support for hosts created with the --remote option was inconsistent.
- ansible-test Collections can now specify controller and target specific integration test requirements and constraints. If provided, they take precedence over the previously available requirements and constraints files.
- ansible-test Integration tests run with the integration command can now be executed on two separate hosts instead of always running on the controller. The target host can be one provided by ansible-test or by the user, as long as it is accessible using SSH.
- ansible-test Most container features are now supported under Podman. Previously a symbolic link for docker pointing to podman was required.
- ansible-test New --controller and --target / --target-python options have been added to allow more control over test environments.
- ansible-test Python 3.8 3.10 are now required to run ansible-test, thus matching the Ansible controller Python requirements. Older Python versions (2.6 2.7 and 3.5 3.10) can still be the target for relevant tests.
- ansible-test SSH port forwarding and redirection is now used exclusively to make container ports available on non-container
 hosts. When testing on POSIX systems this requires SSH login as root. Previously SSH port forwarding was combined with
 firewall rules or other port redirection methods, with some platforms being unsupported.
- ansible-test Sanity tests always run in isolated Python virtual environments specific to the requirements of each test. The environments are cached.
- ansible-test Sanity tests are now separated into two categories, controller and target. All tests except import and compile are controller tests. The controller tests always run using the same Python version used to run ansible-test. The target tests use the Python version(s) specified by the user, or all available Python versions.
- ansible-test Sanity tests now use fully pinned requirements that are independent of each other and other test types.
- 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-test The future-import-boilerplate and metaclass-boilerplate sanity tests are limited to remote-only code. Additionally, they are skipped for collections which declare no support for Python 2.x.
- ansible-test The import and compile sanity tests limit remote-only Python version checks to remote-only code.

- ansible-test Unit tests for controller-only code now require Python 3.8 or later.
- ansible-test Version neutral sanity tests now require Python 3.8 or later.
- junit callback The junit xml and ordereddict Python modules are no longer required to use the junit callback plugin.

amazon.aws

- amazon.aws collection Due to the AWS SDKs announcing the end of support for Python less than 3.6 (https://boto3.amazonaws.com/v1/documentation/api/1.17.64/guide/migrationpy3.html) this collection now requires Python 3.6+ (https://github.com/ansible-collections/amazon.aws/pull/298).
- amazon.aws collection The amazon.aws collection has dropped support for botocore<1.18.0 and boto3<1.15.0. Most modules will continue to work with older versions of the AWS SDK, however compatability with older versions of the SDK is not guaranteed and will not be tested. When using older versions of the SDK a warning will be emitted by Ansible (https://github.com/ansible-collections/amazon.aws/pull/502).
- ec2_instance The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_instance.
- ec2_instance_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_instance_info.
- ec2_vpc_endpoint The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc endpoint.
- ec2_vpc_endpoint_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc endpoint info.
- ec2_vpc_endpoint_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc endpoint info.
- ec2_vpc_endpoint_service_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc endpoint service info.
- ec2_vpc_igw The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc igw.
- ec2_vpc_igw_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc igw facts.
- ec2_vpc_igw_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_igw_info.
- ec2_vpc_nat_gateway The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc nat gateway.
- ec2_vpc_nat_gateway_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_nat_gateway_info.
- ec2_vpc_nat_gateway_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_nat_gateway_info.
- ec2_vpc_route_table The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc route table.
- ec2_vpc_route_table_facts The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2 vpc route table facts.
- ec2_vpc_route_table_info The module has been migrated from the community.aws collection. Playbooks using the Fully Qualified Collection Name for this module should be updated to use amazon.aws.ec2_vpc_route_table_info.

cisco.ise

- Adds ise uses api gateway to module options.
- Adds a 'aws deployment' role that allows the deployment of an arbitrary large ISE cluster to AWS.
- Adds ise responses to return values of info modules.
- Adds ise update response to return values of non-info modules.
- Fixes inner logic of modules that have no get by name and have not working filter.
- Renamed module device administration authorization exception rules to device administration local exception rules.
- Renamed module device_administration_authorization_global_exception_rules to device administration_global_exception_rules.
- Renamed module network access authorization exception rules to network access local exception rules.
- Renamed module network access authorization global exception rules to network access global exception rules.
- Updates options required for modules.
- Updates sdk parameters for previous modules
- device administration authorization exception rules removed module.
- $\bullet \ \ device_administration_authorization_exception_rules_info-removed\ module.$
- device administration authorization global exception rules removed module.
- device_administration_authorization_global_exception_rules_info removed module.
- guest_user_reinstante removed module.
- import trust cert removed module.
- network_access_authorization_exception_rules removed module.

- network access authorization exception rules info removed module.
- network access authorization global exception rules removed module.
- network access authorization global exception rules info removed module.
- personas check standalone Adds module for the deployment of personas to existing nodes in an ISE cluster.
- personas export certs Adds module for the deployment of personas to existing nodes in an ISE cluster.
- personas promote primary Adds module for the deployment of personas to existing nodes in an ISE cluster.
- personas update roles Adds module for the deployment of personas to existing nodes in an ISE cluster.
- service info removed module.
- system certificate export removed module.
- telemetry info info removed module.

cloud.common

• turbo - enable turbo mode for lookup plugins

cloudscale ch.cloud

• Add custom_image module

community.aws

• community.aws collection - The community.aws collection has dropped support for botocore<1.18.0 and boto3<1.15.0 (https://github.com/ansible-collections/community.aws/pull/711). Most modules will continue to work with older versions of the AWS SDK, however compatability with older versions of the SDK is not guaranteed and will not be tested. When using older versions of the SDK a warning will be emitted by Ansible (https://github.com/ansible-collections/amazon.aws/pull/442).

community.ciscosmb

- Python 2.6, 2.7, 3.5 is required
- add CBS350 support
- add antsibull-changelog support
- add ciscosmb_command
- added facts subset "interfaces"
- ciscosmb facts with default subset and unit tests
- interface name canonicalization
- transform collection qaxi.ciscosmb to community.ciscosmb
- transform community.ciscosmb.ciscosmb_command to community.ciscosmb.command
- transform community.ciscosmb.ciscosmb facts to community.ciscosmb.facts
- unit tests for CBS350

community.dns

• hosttech_* modules - support the new JSON API at https://api.ns1.hosttech.eu/api/documentation/ (https://github.com/ansible-collections/community.dns/pull/4).

community.general

• bitbucket_* modules - client_id is no longer marked as no_log=true. If you relied on its value not showing up in logs and output, please mark the whole tasks with no_log: true (https://github.com/ansible-collections/community.general/pull/2045).

community.kubernetes

• redirect everything from community.kubernetes to kubernetes.core (https://github.com/ansible-collections/community.kubernetes/pull/425).

community.okd

• update to use kubernetes.core 2.0 (https://github.com/openshift/community.okd/pull/93).

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).

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).

containers.podman

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

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.
- ome_firmware Added option to stage the firmware update and support for selecting components and devices for baseline-based firmware update.
- 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

- 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.
- Improve fortios configuration fact to use multiple selectors concurrently.
- New module fortios monitor fact.
- Support FortiOS 7.0.1.
- Support Fortios 7.0.
- Support Log APIs.
- Support check_mode in all cofigurationAPI-based modules.
- Support filtering for fact gathering modules fortios configuration fact and fortios monitor fact.
- Support member operation (delete/add extra members) on an object that has a list of members in it.
- Support moving policy in firewall central snat map.
- Support selectors feature in fortios monitor fact and fortios log fact.
- Unify schemas for monitor API.

gluster.gluster

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

hetzner.hcloud

Introduction of placement groups

kubernetes.core

- k8s deprecate merge_type=json. The JSON patch functionality has never worked (https://github.com/ansible-collections/kubernetes.core/pull/99).
- k8s_json_patch split JSON patch functionality out into a separate module (https://github.com/ansible-collections/kubernetes.core/pull/99).
- replaces the openshift client with the official kubernetes client (https://github.com/ansible-collections/kubernetes.core/issues/34).

netapp.cloudmanager

Adding stage environment to all modules in cloudmanager

netbox.netbox

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

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.

ovirt.ovirt

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

Removed Features

Ansible-core

- The built-in module util ansible.module utils.common.removed was previously deprecated and has been removed.
- connections, removed password check stubs that had been moved to become plugins.
- task, inline parameters being auto coerced into variables has been removed.

ansible.windows

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

community.crypto

- acme_* modules the acme_directory option is now required (https://github.com/ansible-collections/community.crypto/pull/290).
- acme_* modules the acme_version option is now required (https://github.com/ansible-collections/community.crypto/pull/290).
- acme_account_facts the deprecated redirect has been removed. Use community.crypto.acme_account_info instead (https://github.com/ansible-collections/community.crypto/pull/290).
- acme_account_info retrieve_orders=url_list no longer returns the return value orders. Use the order_uris return value instead (https://github.com/ansible-collections/community.crypto/pull/290).
- crypto.info module utils the deprecated redirect has been removed. Use crypto.pem instead (https://github.com/ansible-collections/community.crypto/pull/290).
- get_certificate removed the pyopenss1 backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl_certificate the deprecated redirect has been removed. Use community.crypto.x509_certificate instead (https://github.com/ansible-collections/community.crypto/pull/290).
- openssl_certificate_info the deprecated redirect has been removed. Use community.crypto.x509_certificate_info instead (https://github.com/ansible-collections/community.crypto/pull/290).
- openssl_csr removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl_csr and openssl_csr_pipe version now only accepts the (default) value 1 (https://github.com/ansible-collections/community.crypto/pull/290).
- openssl_csr_info removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- opensal csr pipe removed the pyopensal backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl privatekey removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl_privatekey_info removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl_privatekey_pipe removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- opensal publickey removed the pyopensal backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl_publickey_info removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl signature removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- openssl signature info removed the pyopenssl backend (https://github.com/ansible-collections/community.crypto/pull/273).
- x509 certificate remove assertonly provider (https://github.com/ansible-collections/community.crypto/pull/289).
- x509 certificate removed the pyopenss1 backend (https://github.com/ansible-collections/community.crypto/pull/273).
- x509 certificate info removed the pyopenss1 backend (https://github.com/ansible-collections/community.crypto/pull/273).
- x509 certificate pipe removed the pyopenss1 backend (https://github.com/ansible-collections/community.crypto/pull/273).

community.docker

- docker_container the default value of container_default_behavior changed to no_defaults (https://github.com/ansible-collections/community.docker/pull/210).
- docker_container the default value of network_mode is now the name of the first network specified in networks if such are specified and networks cli compatible=true (https://github.com/ansible-collections/community.docker/pull/210).
- docker_container the special value all can no longer be used in published_ports next to other values. Please use publish_all_ports=true instead (https://github.com/ansible-collections/community.docker/pull/210).
- docker login removed the email option (https://github.com/ansible-collections/community.docker/pull/210).

community.general

- All inventory and vault scripts contained in community.general were moved to the contrib-scripts GitHub repository (https://github.com/ansible-collections/community.general/pull/2696).
- ModuleHelper module utils remove fallback when value could not be determined for a parameter (https://github.com/ansible-collections/community.general/pull/3461).
- Removed deprecated netapp module utils and doc fragments (https://github.com/ansible-collections/community.general/pull/3197).
- 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 removed from community.general 4.0.0 and were replaced by redirects to the infoblox.nios_modules collection. Please install the infoblox.nios_modules collection to continue using these plugins and modules, and update your FQCNs (https://github.com/ansible-collections/community.general/pull/3592).
- The vendored copy of ipaddress has been removed. Please use ipaddress from the Python 3 standard library, or from pypi. (https://github.com/ansible-collections/community.general/pull/2441).

- cpanm removed the deprecated system_lib option. Use Ansible's privilege escalation mechanism instead; the option basically used sudo (https://github.com/ansible-collections/community.general/pull/3461).
- grove removed the deprecated alias message of the message_content option (https://github.com/ansible-collections/community.general/pull/3461).
- proxmox default value of proxmox_default_behavior changed to no_defaults (https://github.com/ansible-collections/community.general/pull/3461).
- proxmox_kvm- default value of proxmox_default_behavior changed to no_defaults (https://github.com/ansible-collections/community.general/pull/3461).
- runit removed the deprecated dist option which was not used by the module (https://github.com/ansible-collections/community.general/pull/3461).
- telegram removed the deprecated msg, msg_format and chat_id options (https://github.com/ansible-collections/community.general/pull/3461).
- xfconf the default value of disable_facts changed to true, and the value false is no longer allowed. Register the module results instead (https://github.com/ansible-collections/community.general/pull/3461).

community.hashi vault

- drop support for Python 2 and Python 3.5 (https://github.com/ansible-collections/community.hashi_vault/issues/81).
- support for the following deprecated environment variables has been removed: VAULT_AUTH_METHOD, VAULT_TOKEN_PATH, VAULT_TOKEN_FILE, VAULT_ROLE_ID, VAULT_SECRET_ID (https://github.com/ansible-collections/community.hashi_vault/pull/173).

Deprecated Features

Ansible-core

- ansible-test The --docker-no-pull option is deprecated and has no effect.
- ansible-test The --no-pip-check option is deprecated and has no effect.
- include action is deprecated in favor of include tasks, import tasks and import playbook.
- module utils' FileLock is scheduled to be removed, it is not used due to its unreliable nature.

amazon.aws

- ec2 the boto based ec2 module has been deprecated in favour of the boto3 based ec2_instance module. The ec2 module will be removed in release 4.0.0 (https://github.com/ansible-collections/amazon.aws/pull/424).
- ec2_classic_lb setting of the ec2_elb fact has been deprecated and will be removed in release 4.0.0 of the collection. The module now returns elb which can be accessed using the register keyword (https://github.com/ansible-collections/amazon.aws/pull/552).
- ec2_vpc_dhcp_option The new_config return key has been deprecated and will be removed in a future release. It will be replaced by dhcp_config. Both values are returned in the interim (https://github.com/ansible-collections/amazon.aws/pull/252)

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).

ansible.windows

- win_reboot Unreachable hosts can be ignored with <code>ignore_errors</code>: <code>True</code>, this ability will be removed in a future version. Use <code>ignore_unreachable</code>: <code>True</code> to ignore unreachable hosts instead. https://github.com/ansible-collections/ansible.windows/issues/62
- 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.
- \bullet win_updates Deprecated the <code>use_scheduled_task</code> 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.

arista.eos

• Remove testing with provider for ansible-test integration jobs. This helps prepare us to move to network-ee integration tests.

cisco.ios

- Deprecated ios_bgp in favor of ios_bgp_global and ios_bgp_address_family.
- Deprecated ios_ntp modules.
- Remove testing with provider for ansible-test integration jobs. This helps prepare us to move to network-ee integration tests.

cisco.iosxr

• 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

- Deprecated nxos ntp, nxos ntp options, nxos ntp auth modules.
- 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.aws

- dynamodb_table DynamoDB does not support specifying non-key-attributes when creating an ALL index. Passing includes for such indexes is currently ignored but will result in failures after version 3.0.0 (https://github.com/ansible-collections/community.aws/pull/726).
- dynamodb_table DynamoDB does not support updating the primary indexes on a table. Attempts to make such changes are currently ignored but will result in failures after version 3.0.0 (https://github.com/ansible-collections/community.aws/pull/726).
- ec2_elb the ec2_elb module has been removed and redirected to the elb_instance module which functions identically. The original ec2_elb name is now deprecated and will be removed in release 3.0.0 (https://github.com/ansible-collections/community.aws/pull/586).
- ec2_elb_info the boto based ec2_elb_info module has been deprecated in favour of the boto3 based elb_classic_lb_info module. The ec2_elb_info module will be removed in release 3.0.0 (https://github.com/ansible-collections/community.aws/pull/586).
- elb_classic_lb the elb_classic_lb module has been removed and redirected to the amazon.aws.ec2_elb_lb module which functions identically.
- elb_instance setting of the ec2_elb fact has been deprecated and will be removed in release 4.0.0 of the collection. See the module documentation for an alternative example using the register keyword (https://github.com/ansible-collections/community.aws/pull/773).
- iam the boto based iam module has been deprecated in favour of the boto3 based iam_user, iam_group and iam_role modules. The iam module will be removed in release 3.0.0 (https://github.com/ansible-collections/community.aws/pull/664).
- iam_cert the iam_cert module has been renamed to iam_server_certificate for consistency with the companion iam_server_certificate_info module. The usage of the module has not changed. The iam_cert alias will be removed in version 4.0.0 (https://github.com/ansible-collections/community.aws/pull/728).
- iam_server_certificate Passing file names to the cert, chain_cert and key parameters has been deprecated. We recommend using a lookup plugin to read the files instead, see the documentation for an example (https://github.com/ansible-collections/community.aws/pull/735).
- iam_server_certificate the default value for the <code>dup_ok</code> parameter is currently <code>false</code>, in version 4.0.0 this will be updated to <code>true</code>. To preserve the current behaviour explicitly set the <code>dup_ok</code> parameter to <code>false</code> (https://github.com/ansible-collections/community.aws/pull/737).
- rds the boto based rds module has been deprecated in favour of the boto3 based rds_instance module. The rds module will be removed in release 3.0.0 (https://github.com/ansible-collections/community.aws/pull/663).
- rds_snapshot the rds_snapshot module has been renamed to rds_instance_snapshot. The usage of the module has not changed. The rds_snapshot alias will be removed in version 4.0.0 (https://github.com/ansible-collections/community.aws/pull/783).
- script_inventory_ec2 The ec2.py inventory script is being moved to a new repository. The script can now be downloaded from https://github.com/ansible-community/contrib-scripts/blob/main/inventory/ec2.py and will be removed from this collection in the 3.0 release. We recommend migrating from the script to the *amazon.aws.ec2* inventory plugin.

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.azure_rm_virtualmachinescaleset instead (https://github.com/ansible-collections/community.azure/pull/24).

community.crypto

• acme_* modules - ACME version 1 is now deprecated and support for it will be removed in community.crypto 2.0.0 (https://github.com/ansible-collections/community.crypto/pull/288).

community.dns

• The hosttech_dns_records module has been renamed to hosttech_dns_record_sets. The old name will stop working in community.dns 3.0.0 (https://github.com/ansible-collections/community.dns/pull/31).

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).
- 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).
- docker_container using the special value all in published_ports has been deprecated. Use publish_all_ports=true instead (https://github.com/ansible-collections/community.docker/pull/210).

community.general

- Support for Ansible 2.9 and ansible-base 2.10 is deprecated, and will be removed in the next major release (community.general 5.0.0) next spring. While most content will probably still work with ansible-base 2.10, we will remove symbolic links for modules and action plugins, which will make it impossible to use them with Ansible 2.9 anymore. Please use community.general 4.x.y with Ansible 2.9 and ansible-base 2.10, as these releases will continue to support Ansible 2.9 and ansible-base 2.10 even after they are End of Life (https://github.com/ansible-community/community-topics/issues/50, https://github.com/ansible-collections/community.general/pull/3723).
- ali_instance_info marked removal version of deprecated parameters availability_zone and instance_names (https://github.com/ansible-collections/community.general/issues/2429).
- bitbucket_* modules username options have been deprecated in favor of workspace and will be removed in community.general 6.0.0 (https://github.com/ansible-collections/community.general/pull/2045).
- dnsimple python-dnsimple < 2.0.0 is deprecated and support for it will be removed in community.general 5.0.0 (https://github.com/ansible-collections/community.general/pull/2946#discussion r667624693).
- gitlab_group_members setting gitlab_group to name or path is deprecated. Use full_path instead (https://github.com/ansible-collections/community.general/pull/3451).
- keycloak_authentication the return value flow is now deprecated and will be removed in community.general 6.0.0; use end state instead (https://github.com/ansible-collections/community.general/pull/3280).
- keycloak_group the return value group is now deprecated and will be removed in community.general 6.0.0; use end_state instead (https://github.com/ansible-collections/community.general/pull/3280).
- linode parameter backupsenabled is deprecated and will be removed in community.general 5.0.0 (https://github.com/ansible-collections/community.general/pull/2410).
- lxd_container the current default value true of ignore_volatile_options is deprecated and will change to false in community.general 6.0.0 (https://github.com/ansible-collections/community.general/pull/3429).
- serverless deprecating parameter functions because it was not used in the code (https://github.com/ansible-collections/community.general/pull/2845).
- xfconf deprecate the get state. The new module xfconf_info should be used instead (https://github.com/ansible-collections/community.general/pull/3049).

community.grafana

• grafana_dashboard lookup - Providing a mangled version of the API key is no longer preferred.

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).
- 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).
- 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).

community.kubernetes

• The community.kubernetes collection is being renamed to kubernetes.core. All content in the collection has been replaced by deprecated redirects to kubernetes.core. If you are using FQCNs starting with community.kubernetes, please update them to kubernetes.core (https://github.com/ansible-collections/community.kubernetes/pull/439).

community.vmware

• vmware guest vnc - Sphere 7.0 removed the built-in VNC server (https://docs.vmware.com/en/VMware-

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.sm.add user group 3.0.0. replaced with inspur.sm.user 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 klap group This feature will be removed in inspur.sm.del klap group 3.0.0. replaced with inspur.sm.klap 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.sm.del user group 3.0.0, replaced with inspur.sm.user group.
- edit ad group This feature will be removed in inspur.smedit ad group 3.0.0. replaced with inspur.smad group.
- edit ldap group This feature will be removed in inspur.sm.edit 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.

junipernetworks.junos

- Deprecated router id from ospfv2 resource module.
- Deprecated router id from ospfv3 resource module.
- 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".