
PyTest Skip Markers

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VMware, Inc.

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MARKERS

1.1 destructive_test

`@pytest.mark.destructive_test`

Skip the test if `--run-destructive` is not passed to pytest on the CLI.

Use this mark when the test does something destructive to the system where the tests are running, for example, adding or removing a user, changing a user password.

Note

Do not use this marker if all the test does is add/remove/change files in the test suite temporary directory

```
@pytest.mark.destructive_test
def test_func():
    assert True
```

1.2 expensive_test

`@pytest.mark.expensive_test`

Skip the test if `--run-expensive` is not passed to pytest on the CLI.

Use this test when the test does something expensive(as in monetary expensive), like creating a virtual machine on a cloud provider, etc.

```
@pytest.mark.expensive_test
def test_func():
    assert True
```

1.3 skip_if_not_root

`@pytest.mark.skip_if_not_root`

Skip the test if the user running the test suite is not root or Administrator on Windows.

```
@pytest.mark.skip_if_not_root
def test_func():
    assert True
```

Look [here](#) for the full function signature.

1.4 skip_if_binaries_missing

`@pytest.mark.skip_if_binaries_missing(*binaries, check_all=True, reason=None)`

Parameters

- **binaries** (*str*) – Any argument passed must be a *str* which is the name of the binary check for presence in the path. Multiple arguments can be passed.
- **check_all** (*bool*) – If `check_all` is `True`, the default, all binaries must exist. If `check_all` is `False`, then only one the passed binaries needs to be found. Useful when, for example, passing a list of python interpreter names(`python3.5`, `python3`, `python`), where only one needs to exist.
- **reason** (*str*) – The skip reason.

Skip tests if binaries are not found in path.

```
@pytest.mark.skip_if_binaries_missing("sshd")
def test_func():
    assert True

@pytest.mark.skip_if_binaries_missing("python3.7", "python3", "python", check_
↪all=False)
def test_func():
    assert True
```

Look [here](#) for the full function signature.

1.5 requires_network

1.6 skip_on_windows

`@pytest.mark.skip_on_windows(reason=None)`

Parameters

- **reason** (*str*) – The skip reason

Skip test if test suite is running on windows.

```
@pytest.mark.skip_on_windows
def test_func():
    assert True
```

1.7 skip_unless_on_windows

`@pytest.mark.skip_unless_on_windows(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on windows.

```
@pytest.mark.skip_unless_on_windows
def test_func():
    assert True
```

1.8 skip_on_linux

`@pytest.mark.skip_on_linux(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on linux.

```
@pytest.mark.skip_on_linux
def test_func():
    assert True
```

1.9 skip_unless_on_linux

`@pytest.mark.skip_unless_on_linux(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on linux.

```
@pytest.mark.skip_unless_on_linux
def test_func():
    assert True
```

1.10 skip_on_darwin

`@pytest.mark.skip_on_darwin(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on darwin.

```
@pytest.mark.skip_on_darwin
def test_func():
    assert True
```

1.11 skip_unless_on_darwin

`@pytest.mark.skip_unless_on_darwin(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on darwin.

```
@pytest.mark.skip_unless_on_darwin
def test_func():
    assert True
```

1.12 skip_on_sunos

`@pytest.mark.skip_on_sunos(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on sunos.

```
@pytest.mark.skip_on_sunos
def test_func():
    assert True
```

1.13 skip_unless_on_sunos

`@pytest.mark.skip_unless_on_sunos(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on sunos.


```
@pytest.mark.skip_unless_on_sunos
def test_func():
    assert True
```

1.14 skip_on_smartos

`@pytest.mark.skip_on_smartos(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on smartos.

```
@pytest.mark.skip_on_smartos
def test_func():
    assert True
```

1.15 skip_unless_on_smartos

`@pytest.mark.skip_unless_on_smartos(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on smartos.

```
@pytest.mark.skip_unless_on_smartos
def test_func():
    assert True
```

1.16 skip_on_freebsd

`@pytest.mark.skip_on_freebsd(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on freebsd.

```
@pytest.mark.skip_on_freebsd
def test_func():
    assert True
```

1.17 skip_unless_on_freebsd

`@pytest.mark.skip_unless_on_freebsd(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on freebsd.

```
@pytest.mark.skip_unless_on_freebsd
def test_func():
    assert True
```

1.18 skip_on_netbsd

`@pytest.mark.skip_on_netbsd(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on netbsd.

```
@pytest.mark.skip_on_netbsd
def test_func():
    assert True
```

1.19 skip_unless_on_netbsd

`@pytest.mark.skip_unless_on_netbsd(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on netbsd.

```
@pytest.mark.skip_unless_on_netbsd
def test_func():
    assert True
```

1.20 skip_on_openbsd

`@pytest.mark.skip_on_openbsd(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on openbsd.

```
@pytest.mark.skip_on_openbsd
def test_func():
    assert True
```

1.21 skip_unless_on_openbsd

`@pytest.mark.skip_unless_on_openbsd(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on openbsd.

```
@pytest.mark.skip_unless_on_openbsd
def test_func():
    assert True
```

1.22 skip_on_aix

`@pytest.mark.skip_on_aix(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on aix.

```
@pytest.mark.skip_on_aix
def test_func():
    assert True
```

1.23 skip_unless_on_aix

`@pytest.mark.skip_unless_on_aix(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on aix.

```
@pytest.mark.skip_unless_on_aix
def test_func():
    assert True
```

1.24 skip_on_aarch64

`@pytest.mark.skip_on_aarch64(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on aarch64.

```
@pytest.mark.skip_on_aarch64
def test_func():
    assert True
```

1.25 skip_unless_on_aarch64

`@pytest.mark.skip_unless_on_aarch64(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on aarch64.

```
@pytest.mark.skip_unless_on_aarch64
def test_func():
    assert True
```

1.26 skip_on_photonos

`@pytest.mark.skip_on_photonos(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on PhotonOS.

```
@pytest.mark.skip_on_photonos
def test_func():
    assert True
```

1.27 skip_unless_on_photonos

`@pytest.mark.skip_unless_on_photonos(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is running on PhotonOS.

```
@pytest.mark.skip_unless_on_photonos
def test_func():
    assert True
```

1.28 skip_on_spawning_platform

`@pytest.mark.skip_on_spawning_platform(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test if test suite is running on a platform which defaults multiprocessing to spawn.

```
@pytest.mark.skip_on_spawning_platform
def test_func():
    assert True
```

1.29 skip_unless_on_spawning_platform

`@pytest.mark.skip_unless_on_spawning_platform(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip test unless the test suite is not running on a platform which defaults multiprocessing to spawn.

```
@pytest.mark.skip_unless_on_spawning_platform
def test_func():
    assert True
```

1.30 skip_on_env

`@pytest.mark.skip_on_env(envvar, present=True, eq=None, ne=None)`

Parameters

- **varname** (*str*) – The environment variable to check
- **present** (*bool*) – When True, skip if variable is present in the environment. When False, skip if variable is not present in the environment.
- **eq** (*str*) – Skips when the variable is present in the environment and matches this value.
- **ne** (*str*) – Skips when the variable is present in the environment and does not match this value.
- **reason** (*str*) – The skip reason

Skip test based on the presence/absence of *envvar* in the environment and its value.

```
@pytest.mark.skip_on_env("FLAKY_TEST")
def test_func():
    assert True

@pytest.mark.skip_on_env("FLAKY_TEST", eq="1")
def test_func():
    assert True

@pytest.mark.skip_on_env("FLAKY_TEST", present=False)
def test_func():
    assert True
```

1.31 skip_on_fips_enabled_platform

`@pytest.mark.skip_on_fips_enabled_platform(reason=None)`

Parameters

reason (*str*) – The skip reason

Skip tests if the underlying OS has FIPS enabled.

```
@pytest.mark.skip_on_fips_enabled_platform
def test_func():
    assert True
```

1.32 skip_on_platforms

`@pytest.mark.skip_on_platforms(**platforms, reason=None)`

Parameters

- **windows** (*bool*) – Skip on windows if True
- **linux** (*bool*) – Skip on linux if True
- **darwin** (*bool*) – Skip on darwin if True
- **sunos** (*bool*) – Skip on sunos if True
- **smartos** (*bool*) – Skip on smartos if True
- **freebsd** (*bool*) – Skip on freebsd if True
- **netbsd** (*bool*) – Skip on netbsd if True
- **openbsd** (*bool*) – Skip on openbsd if True
- **aix** (*bool*) – Skip on aix if True
- **aarch64** (*bool*) – Skip on aarch64 if True
- **photonos** (*bool*) – Skip on photonos if True
- **spawning** (*bool*) – Skip on platforms for which multiprocessing defaults to spawn if True

- **reason** (*str*) – The skip reason

Pass `True` to any of the platforms defined as keyword arguments to skip the test when running on that platform

```
@pytest.mark.skip_on_platforms(windows=True, darwin=True)
def test_func():
    assert True
```

1.33 skip_unless_on_platforms

`@pytest.mark.skip_unless_on_platforms(**platforms, reason=None)`

Parameters

- **windows** (*bool*) – Skip unless on windows if `True`
- **linux** (*bool*) – Skip unless on linux if `True`
- **darwin** (*bool*) – Skip unless on darwin if `True`
- **sunos** (*bool*) – Skip unless on sunos if `True`
- **smartos** (*bool*) – Skip unless on smartos if `True`
- **freebsd** (*bool*) – Skip unless on freebsd if `True`
- **netbsd** (*bool*) – Skip unless on netbsd if `True`
- **openbsd** (*bool*) – Skip unless on openbsd if `True`
- **aix** (*bool*) – Skip unless on aix if `True`
- **aarch64** (*bool*) – Skip on aarch64 if `True`
- **photonos** (*bool*) – Skip on photonos if `True`
- **spawning** (*bool*) – Skip on platforms for which multiprocessing does not default to spawn if `True`
- **reason** (*str*) – The skip reason

Pass `True` to any of the platforms defined as keyword arguments to skip the test when not running on that platform

```
@pytest.mark.skip_unless_on_platforms(windows=True, darwin=True)
def test_func():
    assert True
```


PYTEST SKIP MAKERS PACKAGE

2.1 Utils

2.1.1 PyTest Markers related utilities

PyTest Markers related utilities.

`pytestskipmarkers.utils.markers.skip_if_not_root()`

Helper function to check for root/Administrator privileges.

Returns:

str: The reason of the skip

Return type

str | None

`pytestskipmarkers.utils.markers.skip_if_binaries_missing(binaries, check_all=True, reason=None)`

Helper function to check for existing binaries.

Args:

binaries (list or tuple):

Iterator of binaries to check

check_all (bool):

If `check_all` is True, the default, all binaries must exist. If `check_all` is False, then only one the passed binaries needs to be found. Useful when, for example, passing a list of python interpreter names (python3.5, python3, python), where only one needs to exist.

reason (str):

The skip reason.

Returns:

str: The reason for the skip. None: Should not be skipped.

Parameters

- **binaries** (`List[str]` | `Tuple[str, ...]`) –
- **check_all** (`bool`) –
- **reason** (`str` | `None`) –

Return type

str | None

`pytestskipmarkers.utils.markers.skip_if_no_local_network()`

Helper function to check for existing local network.

Returns:

str: The reason for the skip. None: Should not be skipped.

Return type

str | None

`pytestskipmarkers.utils.markers.skip_if_no_remote_network()`

Helper function to check for existing remote network(internet).

Returns:

str: The reason for the skip. None: Should not be skipped.

Return type

str | None

`pytestskipmarkers.utils.markers.skip_on_env(varname, present=True, eq=None, ne=None, reason=None)`

Helper function to check for environment variables.

If any of the checks match, return the skip reason.

Args:

varname(str):

The environment variable to check

present(bool):

When True, skip if variable is present in the environment. When False, skip if variable is not present in the environment.

eq(str):

Skips when the variable is present in the environment and matches this value.

ne(str):

Skips when the variable is present in the environment and does not match this value.

reason(str):

The custom reason message to use.

Returns:

str: The skip reason None: Should not be skipped.

Parameters

- **varname** (str) –
- **present** (bool) –
- **eq** (str | None) –
- **ne** (str | None) –
- **reason** (str | None) –

Return type

str | None

`pytestskipmarkers.utils.markers.evaluate_markers(item)`

Fixtures injection based on markers or test skips based on CLI arguments.

Parameters

item (*Item*) –

Return type

None

2.1.2 Platform related utilities

Platform related utilities.

`pytestskipmarkers.utils.platform.is_windows()`

Simple function to return if a host is Windows or not.

Return bool

Return true on Windows

Return type

`bool`

`pytestskipmarkers.utils.platform.is_linux()`

Simple function to return if a host is Linux or not.

Note for a proxy minion, we need to return something else :return bool: Return true on Linux

Return type

`bool`

`pytestskipmarkers.utils.platform.is_darwin()`

Simple function to return if a host is Darwin (macOS) or not.

Return bool

Return true on Darwin(macOS)

Return type

`bool`

`pytestskipmarkers.utils.platform.is_sunos()`

Simple function to return if host is SunOS or not.

Return bool

Return true on SunOS

Return type

`bool`

`pytestskipmarkers.utils.platform.is_smartos()`

Simple function to return if host is SmartOS (Illumos) or not.

Return bool

Return true on SmartOS (Illumos)

Return type

`bool`

`pytestskipmarkers.utils.platform.is_freebsd()`

Simple function to return if host is FreeBSD or not.

Return bool

Return true on FreeBSD

Return type

`bool`

`pytestskipmarkers.utils.platform.is_netbsd()`

Simple function to return if host is NetBSD or not.

Return bool

Return true on NetBSD

Return type

`bool`

`pytestskipmarkers.utils.platform.is_openbsd()`

Simple function to return if host is OpenBSD or not.

Return bool

Return true on OpenBSD

Return type

`bool`

`pytestskipmarkers.utils.platform.is_aix()`

Simple function to return if host is AIX or not.

Return bool

Return true on AIX

Return type

`bool`

`pytestskipmarkers.utils.platform.is_aarch64()`

Simple function to return if host is AArch64 or not.

Return type

`bool`

`pytestskipmarkers.utils.platform.is_photonos()`

Simple function to return if host is Photon OS or not.

Return type

`bool`

`pytestskipmarkers.utils.platform.is_spawning_platform()`

Returns True if running on a platform which defaults multiprocessing to spawn.

Return type

`bool`

`pytestskipmarkers.utils.platform.on_platforms(windows=False, linux=False, darwin=False, sunos=False, smartos=False, freebsd=False, netbsd=False, openbsd=False, aix=False, aarch64=False, spawning=False, photonos=False)`

Check to see if we're on one of the provided platforms.

Parameters

- **windows** (`bool`) – When True, check if running on Windows.
- **linux** (`bool`) – When True, check if running on Linux.

- **darwin** (*bool*) – When True, check if running on Darwin.
- **sunos** (*bool*) – When True, check if running on SunOS.
- **smartos** (*bool*) – When True, check if running on SmartOS.
- **freebsd** (*bool*) – When True, check if running on FreeBSD.
- **netbsd** (*bool*) – When True, check if running on NetBSD.
- **openbsd** (*bool*) – When True, check if running on OpenBSD.
- **aix** (*bool*) – When True, check if running on AIX.
- **aarch64** (*bool*) – When True, check if running on AArch64.
- **spawning** (*bool*) – When True, check if running on a platform which defaults multiprocessing to spawn
- **windows** –
- **linux** –
- **darwin** –
- **sunos** –
- **smartos** –
- **freebsd** –
- **netbsd** –
- **openbsd** –
- **aix** –
- **aarch64** –
- **spawning** –
- **photonos** (*bool*) –

Return type*bool*`pytestskipmarkers.utils.platform.is_fips_enabled()`

Check is FIPS is enabled.

Return bool

Return true when enabled

Return type*bool*

2.1.3 Ports related utility functions

Ports related utility functions.

`pytestskipmarkers.utils.ports.get_unused_localhost_port(use_cache=False)`

Return a random unused port on localhost.

Parameters

- **use_cache** (*bool*) – If `use_cache` is True, consecutive calls to this function will never return the cached port.

- `use_cache` –

Return type

`int`

`pytestskipmarkers.utils.ports.get_connectable_ports(ports)`

Returns a set of the ports where connection was successful.

Parameters

ports (*Iterable*) – An iterable of ports to try and connect to

Return type

`set`

Returns

Returns a set of the ports where connection was successful

CHANGELOG

Versions follow [Semantic Versioning](#) (<major>.<minor>.<patch>).

Backward incompatible (breaking) changes will only be introduced in major versions with advance notice in the **Deprecations** section of releases.

3.1 [UNRELEASED DRAFT] (2024-01-22)

No significant changes.

3.2 1.5.1 (2024-01-04)

3.2.1 Bug Fixes

- Also capture `stderr` so that no errors are seen on console when checking for FIPS support (#33)

3.2.2 Trivial/Internal Changes

- Minor fixes
 - Don't set the config value twice for the same marker
 - Update copyright headers (#33)

3.3 1.5.0 (2023-10-20)

3.3.1 Features

- Add a `skip_on_fips_enabled_platform` marker (#30)

3.4 1.4.1 (2023-07-31)

3.4.1 Improvements

- Stop using deprecated `@pytest.mark.trylast` (#24)

3.4.2 Trivial/Internal Changes

- Several minor fixes & improvements:
 - Update pre-commit hooks versions
 - Update copyright headers
 - Update workflows
 - Add dependabot config to update GH Actions workflow versions (#25)

3.5 1.4.0 (2022-12-20)

3.5.1 Breaking Changes

- Drop support for python versions older than 3.7 (#22)

3.5.2 Improvements

- Don't cache the functions in `pytestskipmarkers.utils.platform` (#21)

3.5.3 Trivial/Internal Changes

- Updated pre-commit hook versions and added missing `long_description_content_type` to `setup.cfg` (#23)

3.6 1.3.0 (2022-05-09)

3.6.1 Features

- Support skipping all test cases that access the Internet by setting the environment variable `NO_INTERNET`. This is useful to make the test run reproducible and robust for future runs (to avoid breaking in case some random service on the Internet changes). (#16)

3.7 1.2.0 (2022-02-22)

3.7.1 Features

- Added `pytest.mark.skip_on_photonos` and `pytest.mark.skip_unless_on_photonos` markers (#13)
- Added the `pytest.mark.skip_on_env` marker. (#14)

3.8 1.1.3 (2022-02-16)

3.8.1 Bug Fixes

- Fixed issue with `sdist` recompression for reproducible packages not iterating though subdirectories contents. (#12)

3.9 1.1.2 (2022-02-05)

3.9.1 Bug Fixes

- Set lower required python to 3.5.2 and avoid issues with *flake8-typing-imports*. (#10)

3.10 1.1.1 (2022-02-05)

3.10.1 Bug Fixes

- Allow installing on older minor versions of Py3.5. Looking at you Debian. (#10)

3.11 1.1.0 (2022-01-26)

3.11.1 Improvements

- Maintain the skip location under Pytest $\geq 7.0.x$ (#7)
- The plugin is now fully typed (#8)

3.11.2 Trivial/Internal Changes

- Reproducible builds
 - Fix copyright headers hook
 - `towncrier` now uses `issue_format` (#7)

3.12 skip-markers 1.0.0 (2021-10-04)

3.12.1 Features

- First public release of the Pytest Skip Markers Plugin

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