
PyTest Skip Markers

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VMware, Inc.

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CHAPTER
ONE

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_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
```

1.27 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
```

1.28 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
- `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
```

1.29 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
- **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 *Optional[str]*

`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** (*Union[List[str], Tuple[str, ...]]*) –
- **check_all** (*bool*) –
- **reason** (*Optional[str]*) –

Return type *Optional[str]*

`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 *Optional[str]*

`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 `Optional[str]`

`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`

`pytests skipmarkers.utils.platform.is_openbsd()`
Simple function to return if host is OpenBSD or not.

Return bool Return true on OpenBSD

Return type `bool`

`pytests skipmarkers.utils.platform.is_aix()`
Simple function to return if host is AIX or not.

Return bool Return true on AIX

Return type `bool`

`pytests skipmarkers.utils.platform.is_aarch64()`
Simple function to return if host is AArch64 or not.

Return type `bool`

`pytests skipmarkers.utils.platform.is_spawning_platform()`
Returns True if running on a platform which defaults multiprocessing to spawn.

Return type `bool`

`pytests skipmarkers.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)`

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` –

Return type `bool`

`pytestsipmakers.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.

`pytestsipmakers.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`

`pytestsipmakers.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] (2022-02-07)

No significant changes.

3.2 1.1.0 (2022-01-26)

3.2.1 Improvements

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

3.2.2 Trivial/Internal Changes

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

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

3.3.1 Features

- First public release of the Pytest Skip Markers Plugin

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