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Tutorial

Writing tests

Basic structure of test files

Test files must be placed under the directory which name matches the target host name like this.

spec/target.example.jp/http_spec.rb

You can write a test file like this.

```
require 'spec_helper'

describe '<name of the resource being tested>' do
  # your tests ...
end
```

See details on [Matchers](#).

Multi OS support

Serverspec is supporting Red Hat based OS, Debian based OS, Gentoo, Solaris and Darwin based OS now.

Serverspec can detect target host's OS automatically.

If you'd like to set target host's OS explicitly, you should include `Serverspec::Helper::OSName` in `spec/spec_helper.rb` like this.

```
require 'serverspec'
require 'pathname'
require 'net/ssh'

include Serverspec::Helper::Ssh
include Serverspec::Helper::Debian

RSpec.configure do |c|
  # Add SSH before hook in case you use the SSH backend
  # (not required for the Exec backend)
  c.before do
    host = File.basename(Pathname.new(example.metadata[:location]).dirname)
    if c.host != host
      c.ssh.close if c.ssh
      c.host = host
      options = Net::SSH::Config.for(c.host)
      user = options[:user] || Etc.getlogin
      c.ssh = Net::SSH.start(c.host, user, options)
    end
  end
end
```

You can select **`Serverspec::Helper::RedHat`**, **`Serverspec::Helper::Debian`**, **`Serverspec::Helper::Gentoo`**, **`Serverspec::Helper::Solaris`** or **`Serverspec::Helper::Darwin`**.

Sudo password support

If you log into servers as non-root user, serverspec add "sudo" in front of the command. You can specify sudo password like this.

```
$ SUDO_PASSWORD=xxxxxxx rake spec
```

Or display prompt for sudo password if you run serverspec like this.

```
$ ASK_SUDO_PASSWORD=1 rake spec
```

If your spec/spec_helper.rb was created before the version supports sudo password, you should re-create spec/spec_helper.rb by executing `rm spec/spec_helper.rb; serverspec-init`.

If you'd like to give sudo password by another way, please customize spec_helper.rb. Be aware that using sudo will merge stdout and stderr. Tests should only rely on stdout.

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