# Software specifications

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| Chapter number | Software required (With version) | Free/Proprietary | Download links to the software | OS required |
| 1-14 | Python 3.5  Python 2.7 | Free | <https://www.python.org> | Windows, Mac, Linux |
| 1-14 | pip | Free |  |  |
| 1-14 | virtualenv | Free |  |  |
| 1 | Vagrant | Free | <https://www.vagrantup.com> |  |

# Detailed installation steps (software-wise)

1. Python on Windows:
   1. Go to <https://www.python.org>
   2. Click on Downloads section
   3. Select desired version and download installer
   4. Run installer and follow installation instructions
2. Python on Mac OS X:
   1. Execute python --version or python3 --version to verify if Python is already installed
   2. If you don't have Python 3 installer use brew:  
      $ brew install python3
3. Python on Linux:
   1. Execute python --version or python3 --version to verify if Python is already installed
   2. Use your system package manager to install desired version of Python. For instance on Ubuntu/Debian use apt-get:  
      $ sudo apt-get install python3 python3-dev
4. pip:
   1. pip command should be available with most of latest distributions of Python. To verify if it is available run pip --version in your shell session.
   2. If pip is not available then execute:  
      $ python -m ensurepip
5. virtualenv:
   1. Execute in shell:  
      $ pip install -U virtualenv
6. Vagrant:
   1. Go to <https://www.vagrantup.com>
   2. Click on Download button
   3. Select your operating system and follow installation instructions