

Software specifications

| Chapter number | Software required (With version) | Free/Proprietary | If proprietary, can code testing be performed using a trial version | If proprietary, then cost of the software | Download links to the software | Hardware specifications | OS required |
|----------------|----------------------------------|------------------|---|---|---|---|--|
| 1 | openstack-ansible (OSA) | Free | | | https://github.com/openstack/openstack-ansible | http://docs.openstack.org/developer/openstack-ansible/install-guide/overview-requirements.html | Ubuntu 14.04/16.04 |
| 2 | Ansible 2.0 or better | Free | | | http://docs.ansible.com/ansible/intro_installation.html | Currently Ansible can be run from any machine with Python 2.6 or 2.7 installed (Windows isn't supported for the control machine). | Linux based OS, OS X and/or any of the BSD's |
| 3 | Ansible 2.0 or better | Free | | | http://docs.ansible.com/ansible/intro_installation.html | Currently Ansible can be run from any machine with Python 2.6 or 2.7 installed (Windows isn't supported for the control machine). | Linux based OS, OS X and/or |

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| 4 | * | * | * | * | * | * | * |
| 5 | * | * | * | * | * | * | * |
| 6 | * | * | * | * | * | * | * |
| 7 | * | * | * | * | * | * | * |
| | Ansible Container | Free | | | https://docs.ansible.com/ansible-container/installation.html | <ul style="list-style-type: none"> • Python 2.7 • pip • setuptools 20.0.0+ • Docker Engine, Docker for Mac, or access to a Docker daemon. | Linux based OS, OSX and/or any of the BSD's |
| | Kargo | Free | | | https://github.com/kubernetes-incubator/kargo | <ul style="list-style-type: none"> • The target servers must have access to the Internet in order to pull docker images. • The firewalls are not managed, you'll need to implement your own rules the way you used to. in order to avoid any issue during deployment you should disable your firewall • Copy your ssh keys to all the servers part of your | Linux based OS |

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|----|--------|------|---|---|---|---|----------------|
| | | | | | | inventory. • Ansible v2.x and python-netaddr | |
| 8 | * | * | * | * | * | * | * |
| 9 | * | * | * | * | * | * | * |
| 10 | * | * | * | * | * | * | * |
| | Nagios | Free | | | https://assets.nagios.com/downloads/nagioscore/docs/nagioscore/4/en/quickstart.html | | Linux based OS |
| | Nconf | Free | | | http://www.nconf.org/dokuwiki/doku.php?id=nconf:help:documentation:start:installation | | Linux based OS |

* : Most of the software/hardware requirements are listed in chapter 3. The rest of chapters keep using the resources mentioned in chapter 3.

Detailed installation steps (software-wise)

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

1. openstack-ansible (OSA):
 - a. Detailed instructions can be found here: <http://docs.openstack.org/developer/openstack-ansible/install-guide/index.html>
2. Ansible:
 - a. Detailed instructions can be found here: http://docs.ansible.com/ansible/intro_installation.html#installing-the-control-machine
3. Ansible Container:
 - a. Detailed instructions can be found here: <https://docs.ansible.com/ansible-container/installation.html>
4. Kargo:
 - a. Clone kargo repository: <https://github.com/kubernetes-incubator/kargo.git>
5. Nagios:
 - a. Detailed instructions can be found here: <https://assets.nagios.com/downloads/nagioscore/docs/nagioscore/4/en/quickstart.html>
6. Nconf:

- a. Detailed instructions can be found here:

<http://www.nconf.org/dokuwiki/doku.php?id=nconf:help:documentation:start:installation>