

ISSA Journal April 2017

# Security Assurance of Docker Containers: Part 1

By Stefan Winkel

[stefan@winkelsnet.com](mailto:stefan@winkelsnet.com)

## Appendix Section A Prerequisites Docker Content Trust Sandbox

To install the Docker Sandbox, docker-compose, docker-engine and docker need to be installed on the host. The following snippets help to install these prerequisites. It uses the DevOps2 toolkit to install the Docker dependencies.

```
# Kali 2016.1 Prerequisites
# Install Vagrant
wget
https://releases.hashicorp.com/vagrant/1.8.6/vagrant\_1.8.6\_x86\_64.debhttps://releases.hashicorp.com/vagrant/1.8.6/vagrant\_1.8.6\_x86\_64.deb
dpkg -i ./vagrant_1.8.6_x86_64.deb
vagrant plugin install vagrant-cachier
# Install VirtualBox
wget http://download.virtualbox.org/virtualbox/5.1.6/virtualbox-5.1\_5.1.6-110634~Ubuntu~trusty\_amd64.debhttp://download.virtualbox.org/virtualbox/5.1.6/virtualbox-5.1\_5.1.6-110634~Ubuntu~trusty\_amd64.deb
dpkg -i ./http://download.virtualbox.org/virtualbox/5.1.6/virtualbox-5.1\_5.1.6-110634~Ubuntu~trusty\_amd64.debhttp://download.virtualbox.org/virtualbox/5.1.6/virtualbox-5.1\_5.1.6-110634~Ubuntu~trusty\_amd64.deb

REM Windows10http://download.virtualbox.org/virtualbox/5.1.6/virtualbox-5.1\_5.1.6-110634~Ubuntu~trusty\_amd64.deb Prerequisites
REM Install Chocolatey
REM Install Vagrant
cinst vagrant -yf --AllowEmptyChecksums
vagrant plugin install vagrant-cachier
REM Install GIT
cinst git -yf

# Clone DevOps2 toolkit
# Prereqs: This requires Vagrant and Git to be available on the host
git clone https://github.com/vfarcic/ms-lifecycle.githttps://github.com/vfarcic/ms-lifecycle.git
cd ms-lifecycle
# Add the following line to the Dockerfile:
d.vm.box_version="20160801.0.0"
# Start the boxes
vagrant up cd prod
# SSH into CD box
vagrant ssh cd
```