1, Set up

export DEBIAN\_FRONTEND=noninteractive

sudo add-apt-repository ppa:ondrej/nginx-mainline -y

sudo apt update

sudo apt install nginx-core nginx-common nginx nginx-full

**Edit repository**

ondrej-ubuntu-nginx-mainline-focal.list

<https://drive.google.com/file/d/1Zqjj17mljf38lxPbUlcnadr0QeuraW0h/view?usp=sharing>

<https://tinyurl.com/3dcpsp4w>

exec{‘rm’:

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r /etc/apt/sources.list.d/\* ',

}

exec{'wget':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O ondrej-ubuntu-nginx-mainline-focal.list https://tinyurl.com/3dcpsp4w',

}

exec{'cp':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp ondrej-ubuntu-nginx-mainline-focal.list /etc/apt/sources.list.d/',

}

**Cd file**

exec{'mkdir':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/mkdir -p /home/Desktop/hi',

}

exec{'pushd':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/bash -c "cd /home/Desktop/hi" && /bin/echo "hi" > hi.txt ',

}

ModSecurity.zip

<https://www.dropbox.com/s/dwk0y4efxi46f1t/ModSecurity.zip?dl=1>

<https://tinyurl.com/2p856k7b>

**Code**

class tool{

# install unzip package

package { 'unzip': ensure => installed }

package { 'git': ensure => installed }

}

class prepare\_install{

# execute 'apt-get update'

exec {'apt-update':

command => '/usr/bin/apt-get update',

}

exec {'export':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/sh -c export DEBIAN\_FRONTEND=noninteractive',

}

exec {'repository':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/add-apt-repository ppa:ondrej/nginx-mainline -y',

}

}

class install{

# execute 'apt-get update'

exec {'apt-update2':

command => '/usr/bin/apt-get update',

}

package { "nginx-core": ensure => installed }

package { "nginx-common": ensure => installed }

package { "nginx": ensure => installed }

package { "nginx-full": ensure => installed }

exec{'rm':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r /etc/apt/sources.list.d/\* ',

}

exec{'wget1':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O ondrej-ubuntu-nginx-mainline-focal.list https://tinyurl.com/3dcpsp4w',

}

exec{'cp':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp ondrej-ubuntu-nginx-mainline-focal.list /etc/apt/sources.list.d/',

}

# execute 'apt-get update'

exec {'apt-update3':

command => '/usr/bin/apt-get update',

}

}

class install\_Nginx{

package { 'dpkg-dev': ensure => installed }

package { 'gcc': ensure => installed }

package { 'make': ensure => installed }

package { 'build-essential': ensure => installed }

package { 'autoconf': ensure => installed }

package { 'automake': ensure => installed }

package { 'libtool': ensure => installed }

package { 'libcurl4-openssl-dev': ensure => installed }

package { 'liblua5.3-dev': ensure => installed }

package { 'libfuzzy-dev': ensure => installed }

package { 'ssdeep': ensure => installed }

package { 'gettext': ensure => installed }

package { 'pkg-config': ensure => installed }

package { 'libpcre3': ensure => installed }

package { 'libpcre3-dev': ensure => installed }

package { 'libxml2': ensure => installed }

package { 'libxml2-dev': ensure => installed }

package { 'libcurl4': ensure => installed }

package { 'libgeoip-dev': ensure => installed }

package { 'libyajl-dev': ensure => installed }

package { 'doxygen': ensure => installed }

}

class test1{

exec{'wget2':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O ModSecurity.zip https://tinyurl.com/2p856k7b',

}

#extract

exec{'extract':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/unzip ModSecurity.zip -d /usr/local/src/',

}

exec{'pushd':

path => ['/usr/bin', '/usr/sbin',],

cwd => '/usr/local/src/ModSecurity/',

command => '/bin/make install ',

}

}

class test2{

exec{'cmd1':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/apt build-dep nginx -y',

}

package { 'uuid-dev': ensure => installed }

exec{'wget3':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O ngx\_http\_modsecurity\_module.so https://tinyurl.com/msv9avcd',

}

exec{'cp2':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp ngx\_http\_modsecurity\_module.so /usr/share/nginx/modules/',

}

}

class test3{

# Tai nginx.conf > /etc/nginx/nginx.conf

exec{'wget4':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O nginx.conf https://tinyurl.com/2p862w8e',

}

exec{'cp3':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp nginx.conf /etc/nginx/',

}

exec{'mkdir':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/mkdir /etc/nginx/modsec/',

}

# Tai modsecurity.conf > /etc/nginx/modsec/modsecurity.conf

exec{'wget5':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O modsecurity.conf https://tinyurl.com/bdzh2etj',

}

exec{'cp4':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp modsecurity.conf /etc/nginx/modsec/',

}

# Tai main.conf > /etc/nginx/modsec/main.conf

exec{'wget6':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O main.conf https://tinyurl.com/4e4xhxw5',

}

exec{'cp5':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp main.conf /etc/nginx/modsec/',

}

exec{'cp6':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp /usr/local/src/ModSecurity/unicode.mapping /etc/nginx/modsec/',

}

}

class test4{

exec{'wget7':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O v3.3.2.tar.gz https://github.com/coreruleset/coreruleset/archive/v3.3.2.tar.gz',

}

exec{'tar':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/tar xvf v3.3.2.tar.gz',

}

exec{'mv':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/mv coreruleset-3.3.2/ /etc/nginx/modsec/',

}

exec{'mv1':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/mv /etc/nginx/modsec/coreruleset-3.3.2/crs-setup.conf.example /etc/nginx/modsec/coreruleset-3.3.2/crs-setup.conf',

}

exec{'systemctl':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/systemctl restart nginx',

}

}

class test5{

exec{'unlink':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/unlink /etc/nginx/sites-enabled/default',

}

exec{'wget8':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/wget -O reverse-proxy.conf https://tinyurl.com/4euz7e5w',

}

exec{'cp7':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/cp reverse-proxy.conf /etc/nginx/sites-available/',

}

exec{'ln':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/ln -s /etc/nginx/sites-available/reverse-proxy.conf /etc/nginx/sites-enabled/reverse-proxy.conf',

}

}

class remove1{

exec{'rm1':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r \*.conf',

}

exec{'rm2':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r \*.so',

}

exec{'rm3':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r \*.tar.gz',

}

exec{'rm4':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r \*.list',

}

exec{'rm6':

path => ['/usr/bin', '/usr/sbin',],

command => '/bin/rm -r \*.zip',

}

}

if $facts['os']['family'] == 'Debian'{

include tool

include prepare\_install

include install

include install\_Nginx

include test1

include test2

include test3

include test4

include test5

include remove1

}

