[Apache compilation with Ansible](http://tejaslinuxworld.blogspot.com/2016/05/apache-compilation-with-ansible.html)

**What the playbook does?**

Once the playbook is executed Ansible will:

* Install required packages for Apache using yum.
* Compile Openssl (1.0.2g), APR (1.5.2), APR-util (1.5.4), pcre (8.35) and Apache (2.4.16).

This will give you a Apache compile setup. It is not intended to be a complete solution. The goal is to show you what you can do with Ansible to standardize your setup. You can of course also add configuration to the Playbook so that you can completely reinstall and configure your Nagios setup.

This will compile APR, APR-UTILS, PCRE and OpenSSL for basic installation for Apache 2.4. After compile/install all required packages downloads, it will install in /usr/local directory.

**Install Apache with Ansible**

The site.yml file (in the apache-compile base directory) is the actual playbook file. Depending on your setup you might want to change a parameter in this file. By default it will run against all your hosts and you can change this by setting the ‘hosts’ variable to an Ansible group.

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# cd /etc/ansible

**Creating variables for Ansible.**

# vim group\_vars/all

---  
##Common Vars  
base\_pkgs: [ gcc, gcc-c++, vim, wget, zlib-devel ]  
apr\_download: 'http://a.mbbsindia.com//apr/apr-1.5.2.tar.gz'  
apr\_utils\_download: 'http://a.mbbsindia.com//apr/apr-util-1.5.4.tar.gz'  
pcre\_download: 'http://ftp.cs.stanford.edu/pub/exim/pcre/pcre-8.35.tar.gz'  
apache24\_download: 'http://olex.openlogic.com/package\_versions/26350/download?package\_version\_id=103852&path=https%3A%2F%2Folex-secure.openlogic.com%2Fcontent%2Fprivate%2F5e6a6f0815e830bba705e79e4a0470fbee8a5880%2F%2Folex-secure.openlogic.com%2Fhttpd-2.4.16.tar.gz'  
openssl\_download: 'https://www.openssl.org/source/openssl-1.0.2g.tar.gz'  
tomcat\_connector: 'http://archive.apache.org/dist/tomcat/tomcat-connectors/jk/tomcat-connectors-1.2.40-src.tar.gz'  
  
  
##Other Vars  
site\_home: '/usr/local/apache24'  
home\_dir: '/tmp'

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**Allowing host.**

**Configure “site.yml” file**

# vim site.yml

---  
- hosts: all  
   roles:  
       - common

       - apache-compile  
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**Creating required directories**

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# mkdir -p apache-compile/tasks

# mkdir -p common/tasks

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# vim common/tasks/main.yml

---

- name: install required packages  
yum: pkg={{ item }} state=present

with\_items:  
- gcc  
- gcc-c++  
- vim  
- wget

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# vim apache-compile/tasks/main.yml

---  
- name: Downloading APR  
get\_url: url={{apr\_download}} dest=/tmp/apr-1.5.2.tar.gz  
  
- name: Extracting APR  
unarchive: src=/tmp/apr-1.5.2.tar.gz dest=/tmp/ copy=no  
  
- name: Downloading APR-Utils  
get\_url: url={{apr\_utils\_download}} dest=/tmp/apr-util-1.5.4.tar.gz  
  
- name: Extracting APR-Utils  
unarchive: src=/tmp/apr-util-1.5.4.tar.gz dest=/tmp/ copy=no  
  
- name: Downloading PCRE  
get\_url: url={{pcre\_download}} dest=/tmp/pcre-8.35.tar.gz  
  
- name: Extracting PCRE  
unarchive: src=/tmp/pcre-8.35.tar.gz dest=/tmp/ copy=no  
  
- name: Downloading Openssl  
get\_url: url={{openssl\_download}} dest=/tmp/openssl-1.0.2g.tar.gz  
  
- name: Extracting Openssl  
unarchive: src=/tmp/openssl-1.0.2g.tar.gz dest=/tmp/ copy=no  
  
- name: Download Apache24  
get\_url: url={{apache24\_download}} dest=/tmp/httpd-2.4.16.tar.gz  
  
- name: Extracting Apache24  
unarchive: src=/tmp/httpd-2.4.16.tar.gz dest=/tmp/ copy=no  
  
- name: Download and Extracting Tomcat Connector  
shell: creates=/tmp/apache24 wget -O - {{ tomcat\_connector }} | tar -xz -C /tmp  
  
- name: Install APR  
command: "{{ item }} chdir=/tmp/apr-1.5.2/"  
with\_items:  
- ./configure  
- /usr/bin/make  
- /usr/bin/make install  
  
- name: Install APR-Utils  
command: "{{ item }} chdir=/tmp/apr-util-1.5.4/"  
with\_items:  
- ./configure --with-apr=/usr/local/apr  
- /usr/bin/make  
- /usr/bin/make install  
  
- name: Install PCRE  
command: "{{ item }} chdir=/tmp/pcre-8.35/"  
with\_items:  
- ./configure --prefix=/usr/local/pcre  
- /usr/bin/make  
- /usr/bin/make install  
  
- name: Install Openssl  
command: "{{ item }} chdir=/tmp/openssl-1.0.2g/"  
with\_items:  
- ./config -fPIC --prefix=/usr/local/ssl1.0.2g  
- /usr/bin/make  
- /usr/bin/make install  
  
- name: Install Apache24  
command: "{{ item }} chdir=/tmp/httpd-2.4.16/"  
with\_items:  
- ./configure --prefix={{ site\_home }} --with-ssl=/usr/local/ssl1.0.2g --enable-mods-shared=all --enable-deflate --enable-ssl --enable-so --with-pcre=/ usr/local/pcre  
- /usr/bin/make  
- /usr/bin/make install  
  
- name: Install tomcat-connectors  
command: "{{ item }} chdir=/tmp/tomcat-connectors-1.2.40-src/native/"  
with\_items:  
- ./configure --with-apxs=/usr/local/apache24/bin/apxs  
- /usr/bin/make  
- /usr/bin/make install

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**Add host to Ansible host file.**

Once you have installed Ansible and added some hosts to the inventory file, typically /etc/ansible/hosts you can try to connect to your hosts. By default a connection will be made with ssh keys, but you can also specify a username and password.

**# vim /etc/ansible/hosts**

[servers]

remote-ip-address ansible\_ssh\_user=remote-user ansible\_sudo\_pass=password ansible\_ssh\_pass=password

**Note: if there is any special character in your password then you need to escape it Ex. if password**

**is: p@ssw1rd then use: p\@ssw1rd**