

ANSIBLE ROLE TO GENERATE UNLIMITED SSL CERTIFICATES

This is the task for SSL generation:

```
- name: Create ssl directory
  file: path={{params['ssl'].folder}} state=directory group={{ apache_group }}
owner={{ apache_user }}
  become: yes

# generate your own: https://deliciousbrains.com/ssl-certificate-authority-for-local-https-development/

- name: Copy CA certificate and CA private key
  copy:
    src: "{{ item }}"
    dest: "{{params['ssl'].folder}}"
    mode: u+rw,g+r,o+r
  with_fileglob:
    - files/*
  become: yes

- name: Creating private keys for hosts
  shell: openssl genrsa -out {{params['ssl'].folder}}/{{ item.host }}.key 2048
  become: yes
  args:
    executable: "/bin/bash"
  with_items: "{{params['vhosts']}}"
  when: item.ssl|default(true)|bool == true

- name: Creating CSR for hosts
  shell: openssl req -new -key {{params['ssl'].folder}}/{{ item.host }}.key -
nodes -out {{params['ssl'].folder}}/{{ item.host }}.csr -subj "/C=
{{params['ssl'].country_name}}/ST={{params['ssl'].state}}/L=
{{params['ssl'].locality}}/O={{params['ssl'].organization}}/CN={{ item.host }}"
  become: yes
  args:
    executable: "/bin/bash"
  with_items: "{{params['vhosts']}}"
  when: item.ssl|default(true)|bool == true

- name: Generate the Subject Alternative Name (SAN) extension per host
  template:
    src: ssl/extfile.ext
    dest: "{{params['ssl'].folder}}/{{ item.host }}.ext"
  become: yes
  with_items: "{{params['vhosts']}}"
  when: item.ssl|default(true)|bool == true
```

```
- name: Create the certificate per host
  shell: openssl x509 -req -in {{params['ssl'].folder}}/{{ item.host }}.csr -CA
{{params['ssl'].folder}}/root_certificate_authority.pem -CAkey
{{params['ssl'].folder}}/ca_key.key -passin pass:{{params['ssl'].pass_phrase}}
-CAcreateserial -out {{params['ssl'].folder}}/{{ item.host }}.crt -days 1825 -
sha256 -extfile {{params['ssl'].folder}}/{{ item.host }}.ext
  become: yes
  args:
    executable: "/bin/bash"
  with_items: "{{params['vhosts']}}"
  when: item.ssl|default(true)|bool == true
```

This is the parameters I used:

```
vhosts:
  - { projectFolder: "mylocalfolder", host: "azul.dev", framework: "symfony",
alias: "az" }
ssl:
  pass_phrase: "vagrant"
  folder: "/etc/apache2/ssl"
  country_name: "MA"
  state: "Ouarzazate"
  locality: "Ouarzazate"
  organization: "Tamazgha Ltd"
```