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 jooho fix - can't replace same cert with root ca	Latest commit a296329 on Aug 16, 2017
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 templates	fix issues a year ago
 tests	add molecule a year ago
 README.md	Update README.md a year ago
 molecule.yml	add molecule a year ago
 playbook.yml	add molecule a year ago

 README.md

Ansible Role: Generate Self Signed Certificate

This role help generate self signed certificate. It will create following combinations:

Case 1:

- ROOT CA
- Intermediate CA
- Server Cert (with SAN/without SAN)

Case 2:

- Root CA
- Server Cert (with SAN/without SAN)

Requirements

yum

Role Variables

Name	Default value	Requird	Description
cert_base_dir	/root/cert_base	no	Default Cert Base Directory
root_cert_bit	4096	no	Default Root Cert Bit Size
intermediate_cert_bit	4096	no	Default Intermediate Cert Bit Size
server_cert_bit	2048	no	Default Server Cert Bit Size
serial_number	1000	no	Cert Common Info - Serial Number
countryName	CA	no	Cert Common Info - Country Name
stateOrProvinceName	ON	no	Cert Common Info - Province Name
localityName	MILTON	no	Cert Common Info - Locality Name

Name	Default value	Required	Description
organizationName	RED HAT	no	Cert Common Info - Org Name
organizationalUnitName	SCE	no	Cert Common Info - Org Unit Name
emailAddress	test@test.com	no	Cert Common Info - Email Address
root_commonName	Root CA	no	Root Cert Info - Root CN
intermediate_commonName	Intermediate CA	no	Intermediate Cert Info - Intermediate CN
cert_commonName	lb.example.com	no	Server Cert Info - Server Cert CN
use_intermediate_cert	yes	no	If no, it does not issue intermediate cert
use_san	yes	no	If yes, SAN info will be added with CN name
san_dns		no	Add several SAN DNS List
san_ip		no	Add several SAN IP List
overwrite_server_cert	yes	no	Delete server cert directory that is based on CN name
clean_all	no	no	Recreate all certs

Dependencies

None

Example Playbook

```
- name: Example Playbook
  hosts: localhost
  gather_facts: false

  roles:
    - { role: Jooho.generate-self-signed-cert }
```

Example Vars

Wildcard Certificate:

```
cert_commonName: *.cloudapps.example.com
```

SAN DNS LIST:

```
san_dns:
  - { index: 1, dns: lb.example.com}
  - { index: 2, dns: master-cluster.example.com}
```

SAN IP LIST:

```
san_ip:
  - { index: 1, ip: 192.168.200.205}
```

NOTE

The private key & certificate permission should be 400/444 but this ansible role use 777/777 because these files will be copied to somewhere. After you copy them, it is recommended to change permissions.

Useful Commands

```
openssl x509 -in {{cert_base_dir}}/{{server_cert_commonName}}/{{server_cert_commonName}.cert.pem -text
openssl x509 -in /root/cert_base/lb.example.com/lb.example.com.cert.pem -text
```

Reference Doc

- <https://jamielinux.com/docs/openssl-certificate-authority/>

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Author Information

This role was created in 2017 by [Jooho Lee](#).