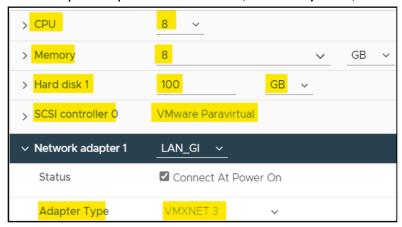
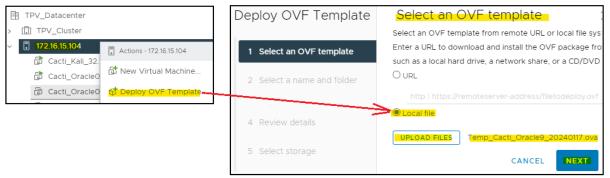
# Configure Cacti VM after OVA Template Imported

By Double.Lin 3/25/2024

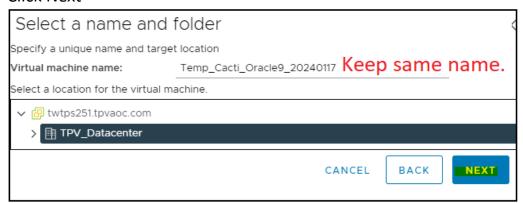
1. VM Template spec: CPU 8 cores, Memory 8GB, HD 100GB.



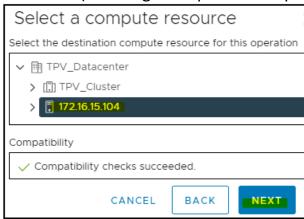
- 2. Download Cacti Template from OneDrive
  - a. Cacti Template v1.2.25
  - b. PW is Cacti1.2.25
- 3. Import Template to vCenter as a Template
  - a. Login vCenter =>Click VM Host -> Deploy OVF Template -> Local File -> Upload File to select OVA -> Next



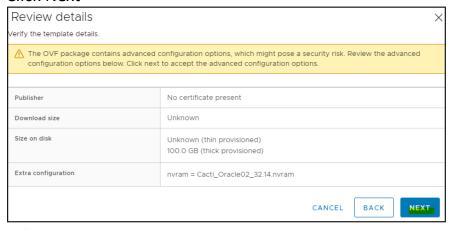
b. Click Next



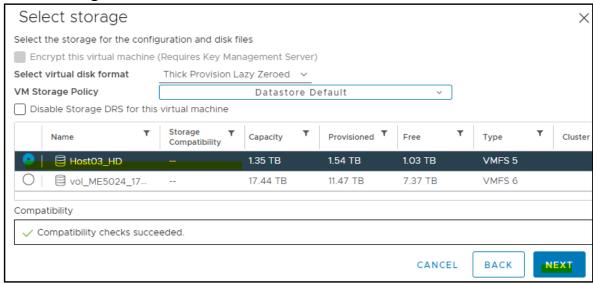
c. Click Next (or change computer as required)



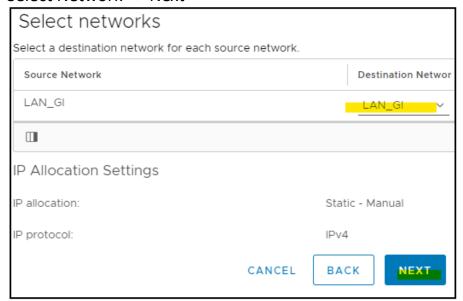
d. Click Next



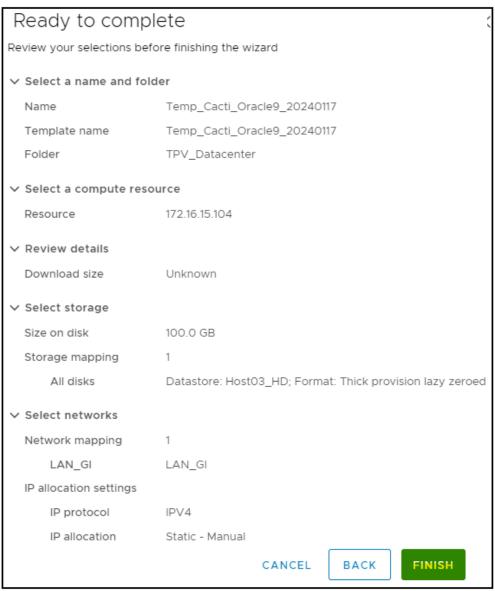
e. Select Storage -> Next



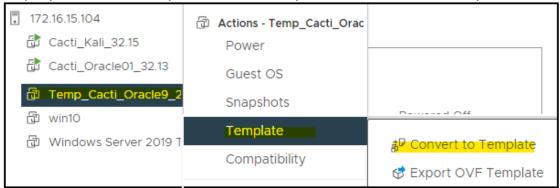
### f. Select Network => Next



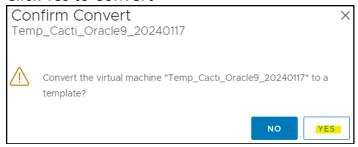
## g. Click Finish



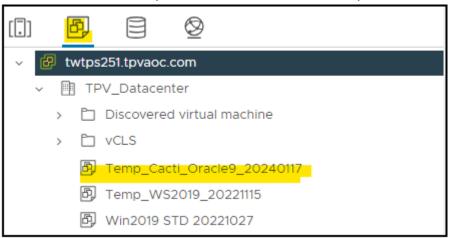
h. Deployed on inventory list=> Click Template => Convert to Template



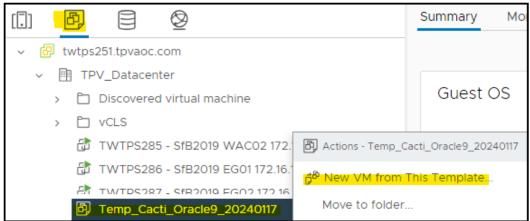
i. Click Yes to Convert



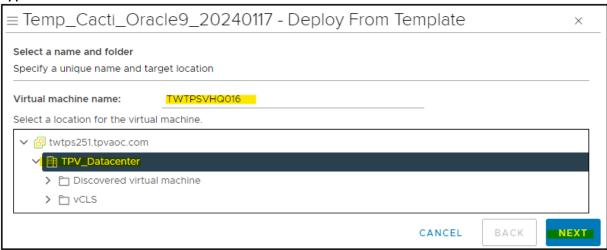
j. Done of Cacti VM imported and convert to Template



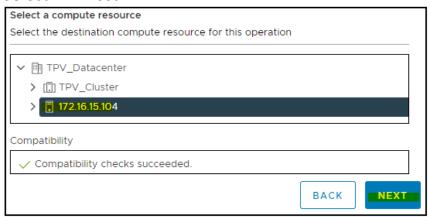
- 4. Deploy from Template
  - a. Right Click Cacti Template => New VM from this Template



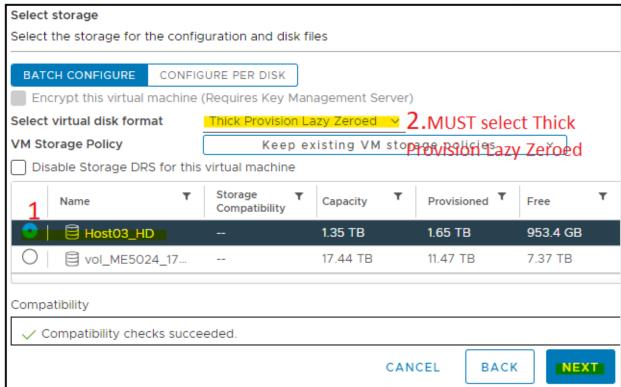
b. Type Cacti host name => Next



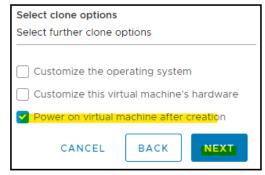
c. Select VM Host.



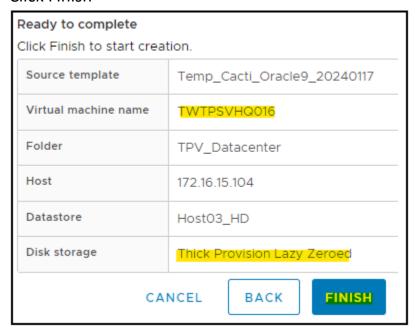
d. Select Storage => 1.click a data store=>2. Select "Thick Provision Lazy Zeroed"



e. Power on VM after creation => Next



f. Click Finish



- g. Done
- 5. Configure VM
  - a. Login as root
  - b. Check current NIC's UUIDnm

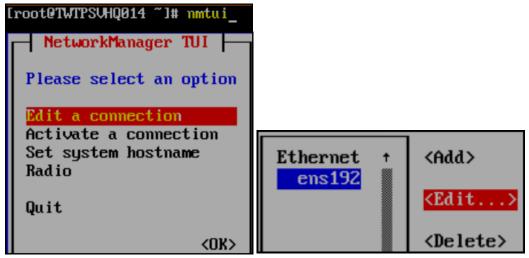
nmcli con show

c. Check current NIC's MAC

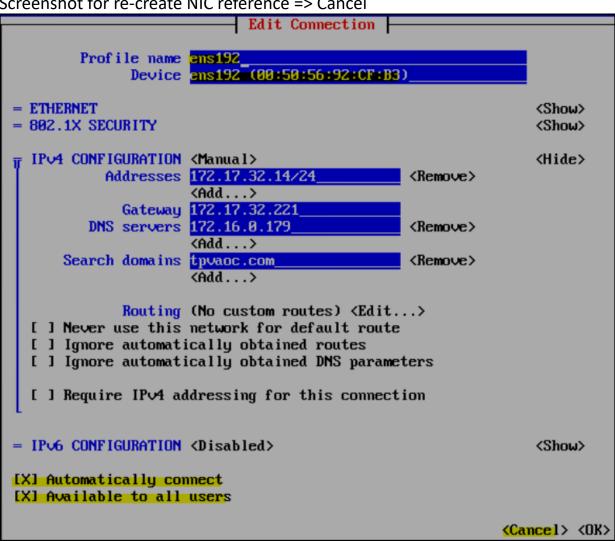
ip address

```
[root@TWTPSUHQ014 ~]# ip address
2: ens192: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group
    link/ether 00:50:56:92:cf:b3 brd ff:ff:ff:ff:ff
    altname enp11s0
    inet 172.17.32.14/24 brd 172.17.32.255 scope global noprefixroute ens192
    valid_lft forever preferred_lft forever
```

d. Check Current NIC configuration nmtui => Edit a connection => Edit



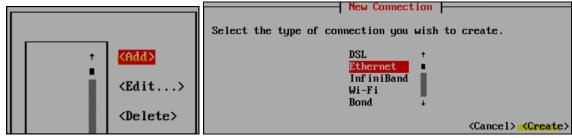
e. Screenshot for re-create NIC reference => Cancel



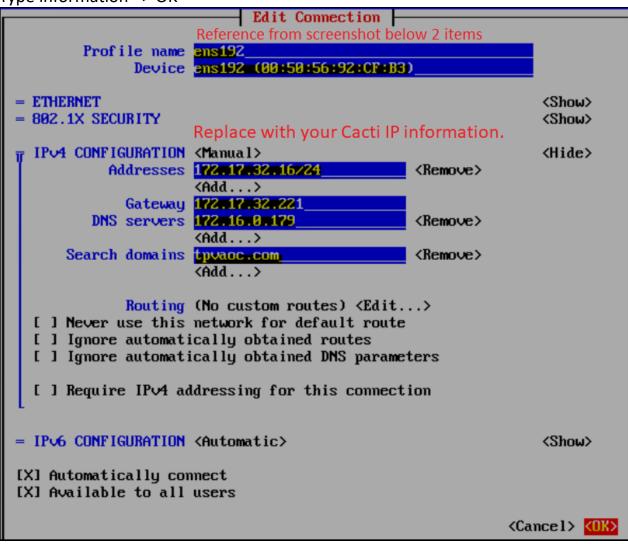
f. Click ens192 => Delete => Delete



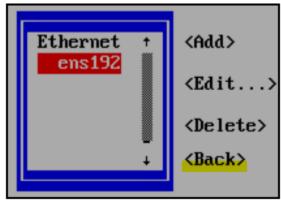
g. Add => Ethernet => Create



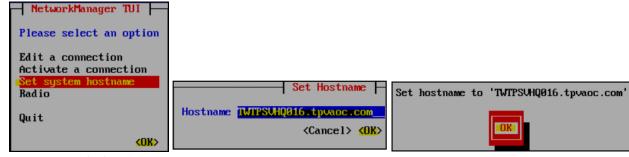
h. Type information => OK



i. Click "back



j. Click Set hostname => type your host name => Ok



k. Done => Click Quit



I. nano /etc/hosts

```
GNU nano 5.6.1 /etc/hosts Modi
127.0.0.1 localhost localhost.localdomain localhost4
::1 localhost localhost.localdomain localhost6
172.17.32.16 TWTPSVHQ016 TWTPSVHQ016.tpvaoc.com
```

m. Configure Time server to local DC nano /etc/chrony.conf#pool 2.pool.ntp.org iburst pool 172.16.0.179 iburst

#### pool **172.16.0.178** iburst

```
# Use public servers from the pool.ntp.org project.
# Please consider joining the pool (https://www.poo
#pool 2.pool.ntp.org iburst
pool 172.16.0.179 iburst
pool 172.16.0.178 iburst
```

n. Reboot now

[root@TWTPSVHQ014 ~]# reboot now

o. Verify UUID is different with previous now.

### nmcli con show

```
        Iroot@TWTPSVHQ016 ~1# nmcli con show

        NAME
        UUID
        TYPE
        DEVICE

        ens192
        011ef107-497d-4da5-9956-bf508643df9c
        ethernet
        ens192
```

#### Previous is

p. Test Network connection is fine

#### Ping www.cisco.com

```
[root@TWTPSUHQ016 ~1# ping www.cisco.com]
PING e2867.dsca.akamaiedge.net (23.208.81.43) 56(84) bytes of data.
64 bytes from a23-208-81-43.deploy.static.akamaitechnologies.com (23.208.81.43): icmp_seq=1 ttl=53 time=65.0 ms
64 bytes from a23-208-81-43.deploy.static.akamaitechnologies.com (23.208.81.43): icmp_seq=2 ttl=53 time=65.1 ms
64 bytes from a23-208-81-43.deploy.static.akamaitechnologies.com (23.208.81.43): icmp_seq=3 ttl=53 time=86.0 ms
64 bytes from a23-208-81-43.deploy.static.akamaitechnologies.com (23.208.81.43): icmp_seq=4 ttl=53 time=66.3 ms
```

- 6. Re-verify OS related.
  - a. Check DNS is local DC

#### nano /etc/resolv.conf

```
GNU nano 5.6.1 /etc/resolv.conf

# Generated by NetworkManager
search tpvaoc.com
nameserver 172.16.0.179
```

b. Change HostName

#### hostname

```
[root@TWTPSVHQ016 ~]# hostname
TWTPSVHQ016.tpvaoc.com_
```

7. Setting time zone

a. Review the current system date and time configuration:

```
[root@TWTPSVHQ016 ~]# timedatectl

Local time: Thu 2024-01-18 00:08:14 CST

Universal time: Wed 2024-01-17 16:08:14 UTC

RTC time: Wed 2024-01-17 16:08:14

Time zone: Asia/Taipei (CST, +0800)

System clock synchronized: yes

NTP service: active

RTC in local TZ: no
```

b. List all system time zones. Press the q key to exit:

timedatectl list-timezones

```
[root@TWTPSVHQ016 ~]# timedatectl list-timezones
Africa/Abidjan
Africa/Accra
Africa/Addis_Ababa
Africa/Algiers
Africa/Asmara
```

c. Search for your time zone, using underscores for compound names. For example, to find Pacific Daylight Time (PDT):

timedatectl list-timezones | grep 'Sao\_Paulo'

```
[root@TWTPSVHQ016 ~]# timedatectl list-timezones | grep 'Sao_Paulo'
America/Sao_Paulo
```

d. Set your time zone:

timedatectl set-timezone America/Sao\_Paulo

```
[root@TWTPSVHQ016 \sim]# timedatectl set-timezone America/Sao_Paulo [root@TWTPSVHQ016 \sim]# [
```

e. Verify new time zone is changed

timedatectl

- 8. Configure Time Server to local DC
  - a. nano /etc/chrony.conf

```
<mark>#</mark>pool 2.pool.ntp.org iburst
pool <mark>172.16.0.179</mark> iburst
```

pool 172.16.0.178 iburst

b. systemctl restart chronyd
 [root@TWTPSVHQ014 ~]# systemctl restart chronyd
 [root@TWTPSVHQ014 ~]# ||

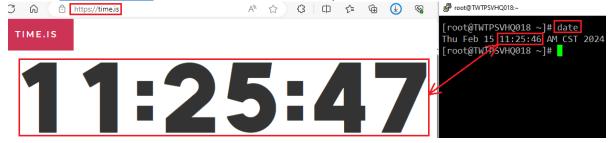
c. systemctl status chronyd (verify selected source IP is switch to local DC now)

```
[root@TWTPSVHQ018 ~]# systemctl status chronyd
• chronyd.service - NTP client/server
    Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; preset: enabled)
    Active: active (running) since Thu 2024-02-15 11:19:59 CST; 10s ago
Feb 15 11:19:59 TWTPSVHQ018.tpvaoc.com systemd[1]: Starting NTP client/server...
Feb 15 11:19:59 TWTPSVHQ018.tpvaoc.com chronyd[3640]: chronyd version 4.3 starting (+CMDMON +NT|
Feb 15 11:19:59 TWTPSVHQ018.tpvaoc.com chronyd[3640]: Frequency -8.853 +/- 1.482 ppm read from Feb 15 11:19:59 TWTPSVHQ018.tpvaoc.com chronyd[3640]: Using right/UTC timezone to obtain leap system 15 11:19:59 TWTPSVHQ018.tpvaoc.com chronyd[3640]: Loaded seccomp filter (level 2)
Feb 15 11:19:59 TWTPSVHQ018.tpvaoc.com systemd[1]: Started NTP client/server.
Feb 15 11:20:03 TWTPSVHQ018.tpvaoc.com chronyd[3640]: Selected source 172.16.0.178 <-Your DC IP
Feb 15 11:20:03 TWTPSVHQ018.tpvaoc.com chronyd[3640]: System clock TAI offset set to 37 seconds</pre>
```

d. (Optional-Troubleshooting) Reboot now if Selected Ssource IP still not change to your local DC.

```
[root@TWTPSVHQ018 ~]# reboot now]
[root@TWTPSVHQ018 ~]# systemctl status chronyd
• chronyd.service - NTP client/server
    Loaded: loaded (/usr/lib/systemd/system/chronyd.service; enabled; preset: enabled)
    Active: active (running) since Thu 2024-02-15 11:40:48 CST; 1min 53s ago
Feb 15 11:40:48 TWTPSVHQ018.tpvaoc.com systemd[1]: Started NTP client/server.
Feb 15 11:40:50 TWTPSVHQ018.tpvaoc.com chronyd[907]: Source 172.16.0.178 offline
Feb 15 11:40:50 TWTPSVHQ018.tpvaoc.com chronyd[907]: Source 172.16.0.179 offline
Feb 15 11:40:50 TWTPSVHQ018.tpvaoc.com chronyd[907]: Source 172.16.0.179 online
Feb 15 11:40:55 TWTPSVHQ018.tpvaoc.com chronyd[907]: Source 172.16.0.179 online
Feb 15 11:40:55 TWTPSVHQ018.tpvaoc.com chronyd[907]: Selected source 172.16.0.178
```

e. Browse <a href="https://time.is">https://time.is</a> and command date to compare time is same.



- 9. Regenerate CA.
  - a. openssl req -x509 -nodes -days 3650 -newkey rsa:2048 -keyout /etc/ca/cacti.key out /etc/ca/cacti.crt

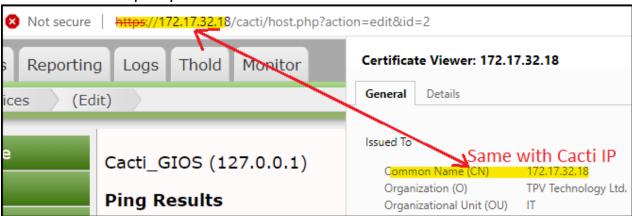
b. Is -lh /etc/ca (check time stamp is now)

```
[root@TWTPVHQ014 ~]# ls -lh /etc/ca
total 8.0K
-rw-r--r-- 1 root root 1.5K Jan 8 22:21 cacti.crt
-rw----- 1 root root 1.7K Jan 8 22:19 cacti.key
```

c. systemctl restart httpd

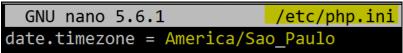
# [root@TWTPSVHQ018 ~]# systemctl restart httpd

d. Check CA IP is map to your new Cacti

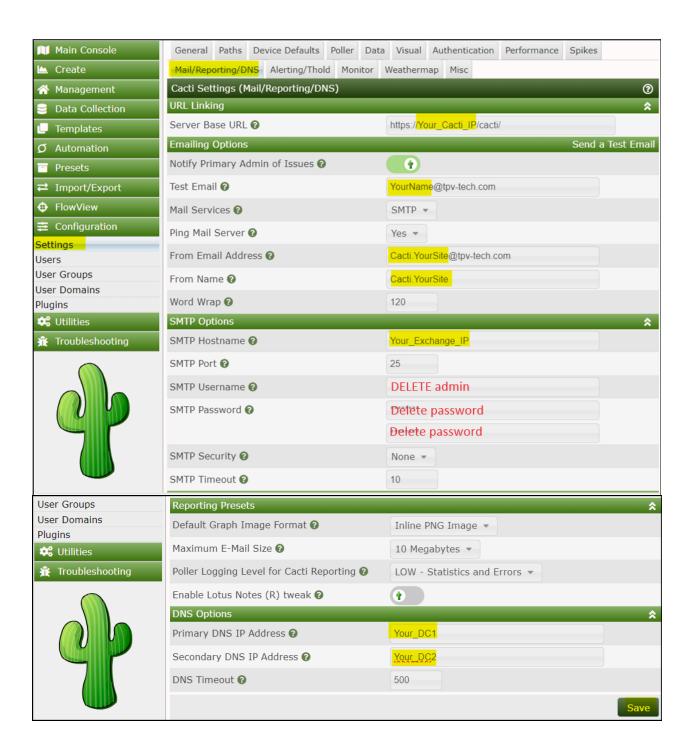


## 10. Modify Cacti related

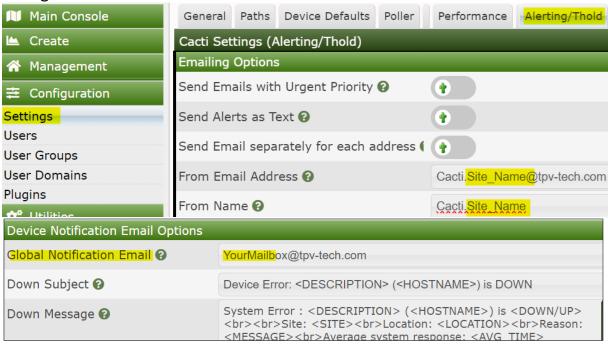
a. nano /etc/php.inidate.timezone = America/Sao\_Paulo



b. Change Mail/DNS on Web console.
 Add your Cacti IP into "Exchange AP relay allow IP" list.



c. Change Thresholds



## d. Modify Data Collectors

