# CISCO ISE TACACS CONFIGURATION CREATE USERS



**IDENTITY SERVICES ENGINE** 

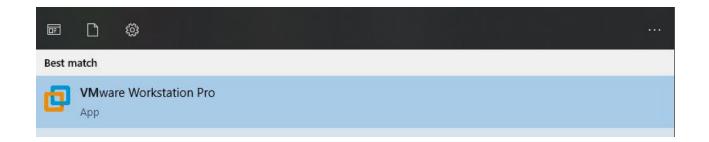
# **VMWARE WORKSTATION**

# **WINDOWS SERVER 2022**

ISE-2.6.0.156-virtual-SNS3615-SNS3655-200.ova

**CSR1000v** 

# 1.OPEN VMWARE WORKSTATION



# 2.CHEK IF YOU HAVE WINDOWS SERVE 2022



SET THE NETWORK ADAPTER TO NAT

RAM 8 GB

THEN POWER IT ON

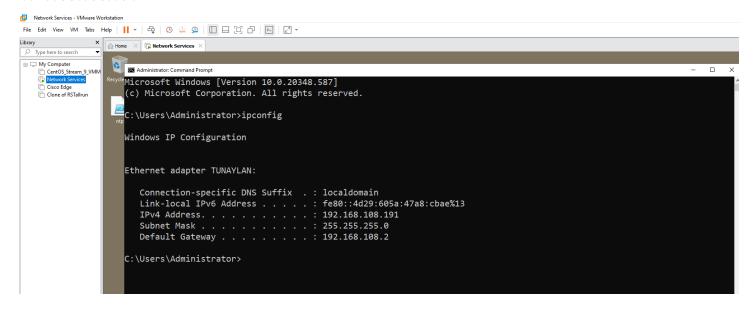
# 3.CHECK THE IP ADDRESS OF VIRTUAL WINDOWS SERVER

**OPEN CMD** 

**TYPE: ipconfig** 

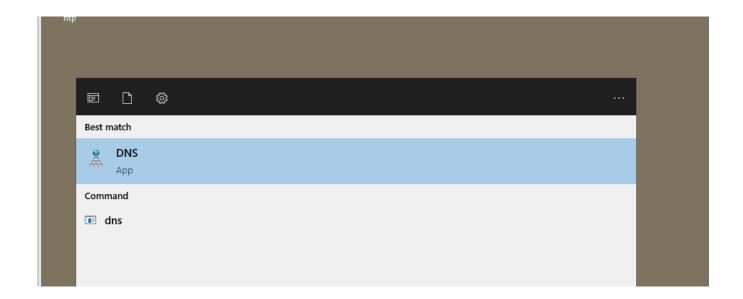
#### **REMEMBER THE IP ADDRESS**

192.168.108.191



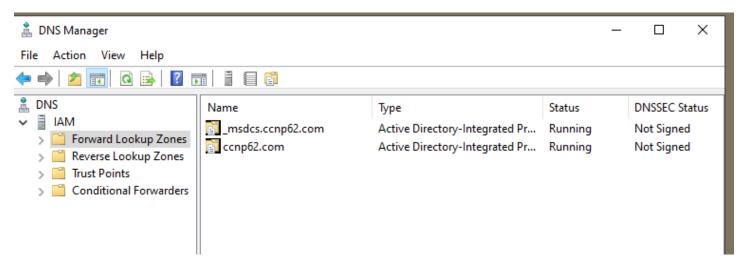
### **4.CHECK DNS – Domain Name Server**

**PRESS Windows KEY then type DNS** 

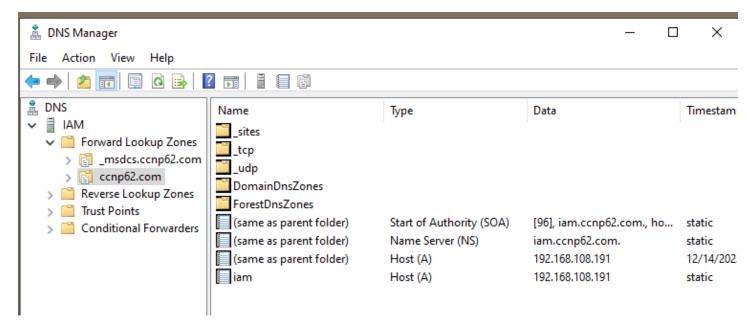


#### **CHECK IF MAY DNS NA ccnpM.com**

#### THEN DOUBEL CLICK ON IT

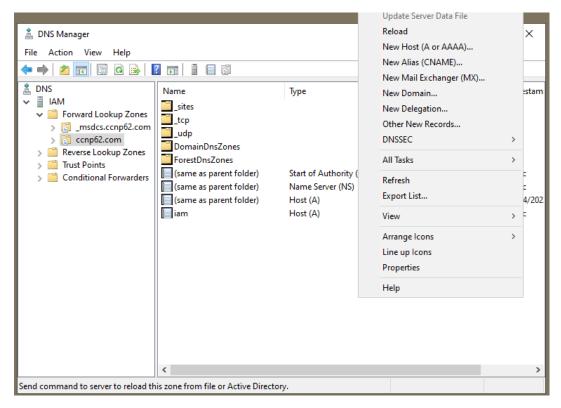


#### CHECK THE IP ADDRES IF THE SAME SILA SA IPCONFIG sa CMD

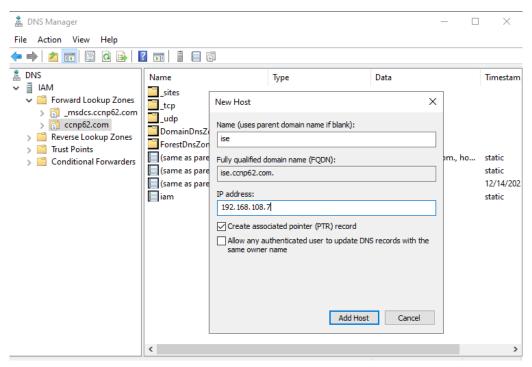


#### **ADD ONE HOST NAME**

#### RIGHT CLICK ON THE CCNPM.COM

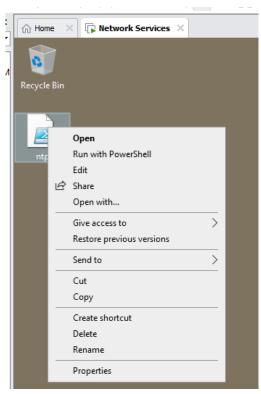


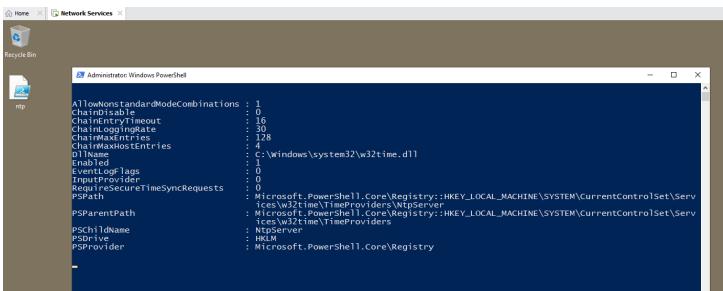
# CLICK New Host ( A or AAA) THEN FOLLOW THE INFO BELOW ADD HOST



# **5.RUN THE NTP SERVER ON WINDOWS VIRTUAL SERVER**

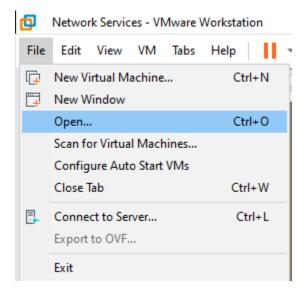
#### RIGHT CLICK THE "NTP" THEN Run with PowerShell





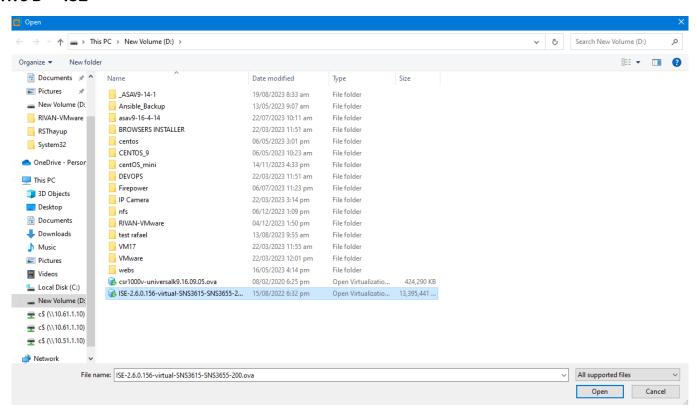
# 6.DEPLOY THE ISE.ova

#### **CLICK FILE -> OPEN**



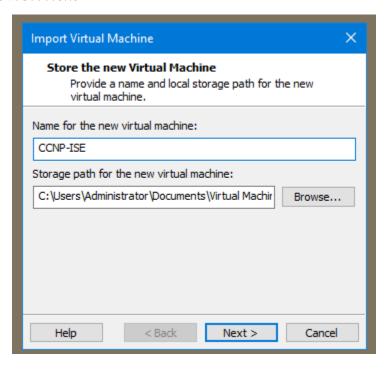
#### **FIND THE ISE**

#### Drive D -> ISE

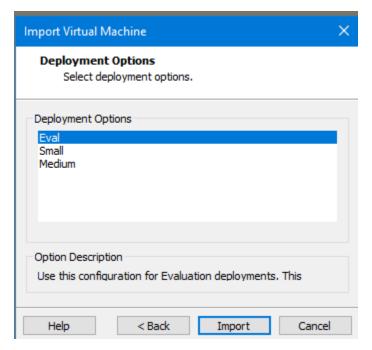


# 7.DEPLOY THE ISE.ova

#### Name: CCNP-ISE then CLICK Next



# **Import**



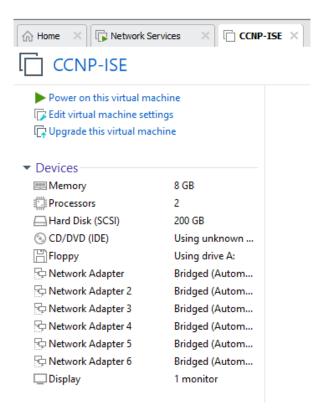


# **8.EDIT THE SETTINGS OF ISE VIRTUAL MACHINE**

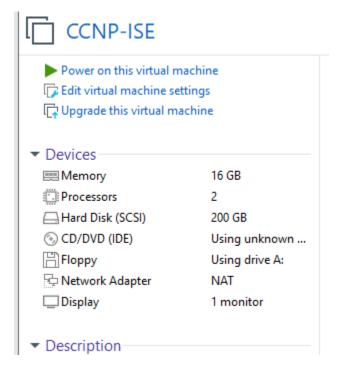
**SET THE RAM TO 16 GB** 

SET THE NETWORK ADAPTER TO NAT

**REMOVE THE NETWORK 2-6** 



#### **UPDATED**

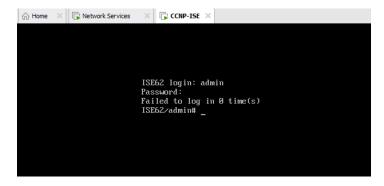


THEN POWER IT ON

# 9.TYPE "setup

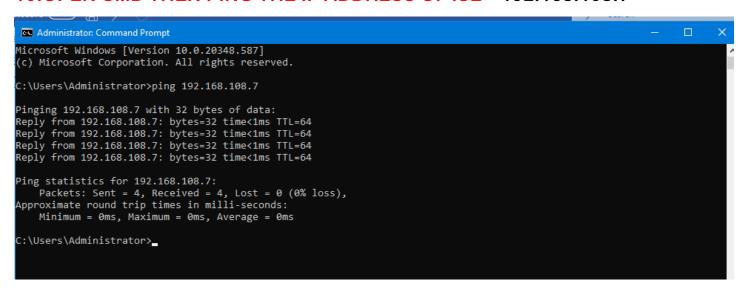
```
Press 'Ctrl-C' to abort setup
Enter hostname[]: ISE62
Enter IP address[]: 192.168.108.7
Enter IP netmask[]: 255.255.255.0
Enter IP default gateway[]: 192.168.108.2
Do you want to configure IPv6 address? Y/N [N]: N
Enter default DNS domain[]: ccnp62.com
Enter primary nameserver[]: 192.168.108.191
Add secondary nameserver? Y/N [N]: N
Enter NTP server[time.nist.gov]: 192.168.108.191
Add another NTP server? Y/N [N]: N
Enter system timezone[UTC]: UTC
Enable SSH service? Y/N [N]: Y
Enter username[admin]: admin
Enter password:
Enter password again: _
```

# 192.168.108.191 – IP ADD OF MY Windows Server Virtual (NTP,NAME SERVER)

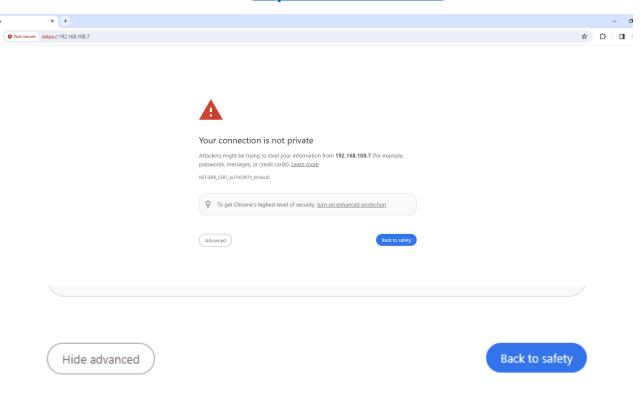


Admin C1sc0123

# 10.OPEN CMD THEN PING THE IP ADDRESS OF ISE - 192.168.108.7



# 11.OPEN ANY BROWSER TYPE: https://192.168.108.7



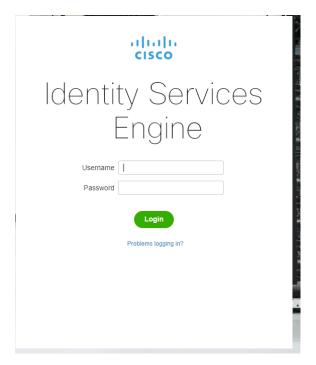
This server could not prove that it is **192.168.108.7**; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.

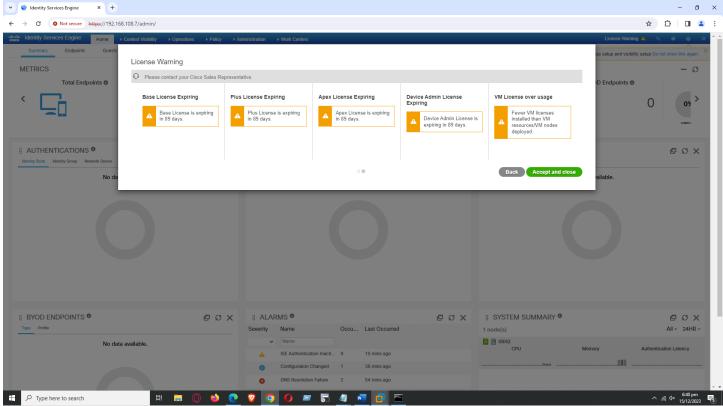
Proceed to 192.168.108.7 (unsafe)

# 12.GUI OF ISE

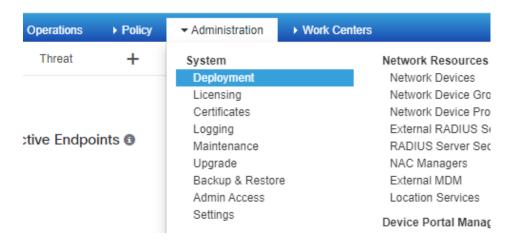
#### admin

# C1sc0123

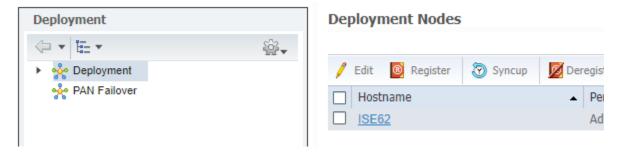




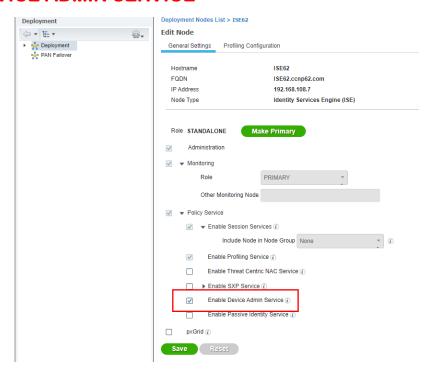
# 13.GO TO ADMINISTRATION - DEPLOYMENT



#### **CLICK ISE-M**



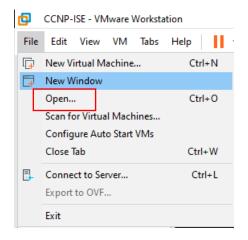
# 14. ENABLE DEVICE ADMIN SERVICE

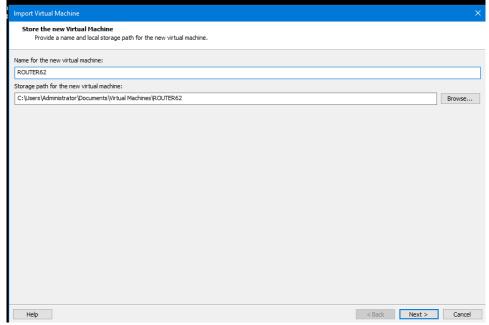


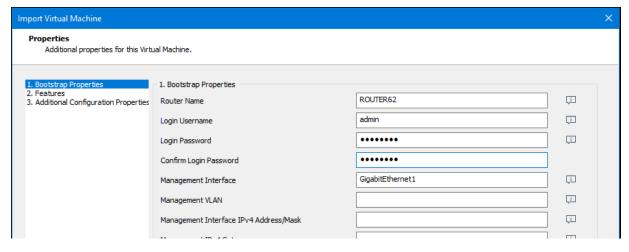
**CLICK SAVE** 

# **15. DEPLOY A CSR 1000v**

# File - OPEN - FIND THE CSR1000v ( D-Rivanapp-IOS)

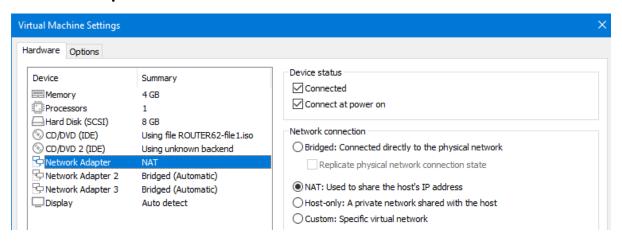






THEN CLICK IMPORT

#### Set the Network Adapter of CSR 1000v to NAT



# 16. TYPE THIS COMMAND TO CSR1000v AFTER BOOTING

**Enable** 

Conf t

Int gi 1

Ip add 192.168.108.100 255.255.255.0

No shut

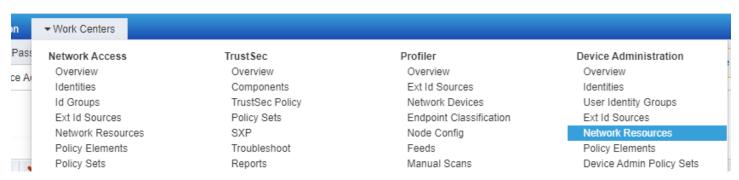
#### THEN PING THE IP ADDRESS OF 192.168.108.100 TO CMD TUNAY NA PC

```
C:\Users\Administrator>ping 192.168.108.100

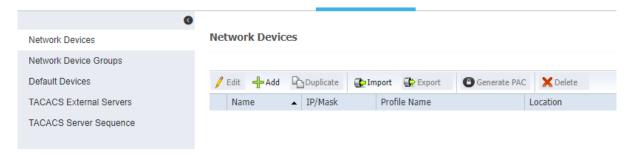
Pinging 192.168.108.100 with 32 bytes of data:
Request timed out.
Reply from 192.168.108.100: bytes=32 time=1ms TTL=255
Reply from 192.168.108.100: bytes=32 time=1ms TTL=255
Reply from 192.168.108.100: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.108.100:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 1ms, Average = 1ms
```

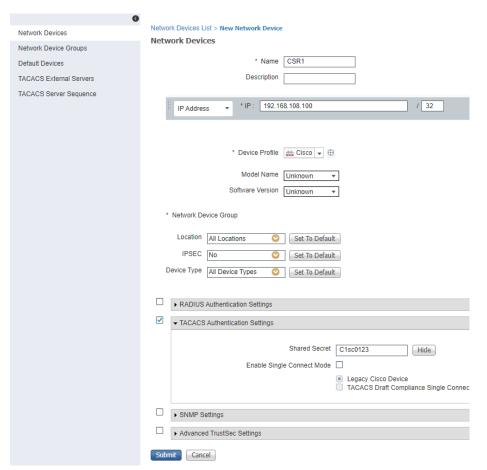
# 17. GO BACK THE GUI OF ISE – GO TO WORK CENTERS – DEVICE ADMINISTRATION – NETWORK RESOURCES



#### **CLICK ADD**



#### **FOLLOW THIS SETTINGS**

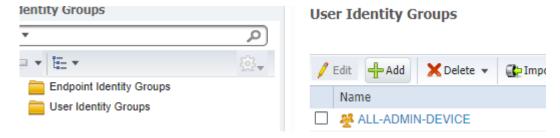


THEN CLICK SUBMIT

# 18. GO TO – WORK CENTERS – DEVICE ADMINISTRATION – USER IDENTITY GROUPS



#### **CLICK ADD**

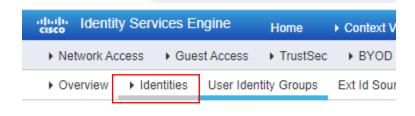


#### NAME: ALL-ADMIN-DEVICE

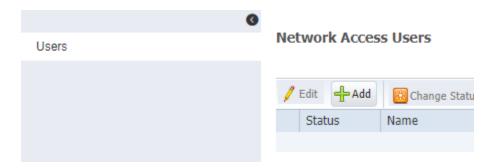


THEN CLICK SUBMIT

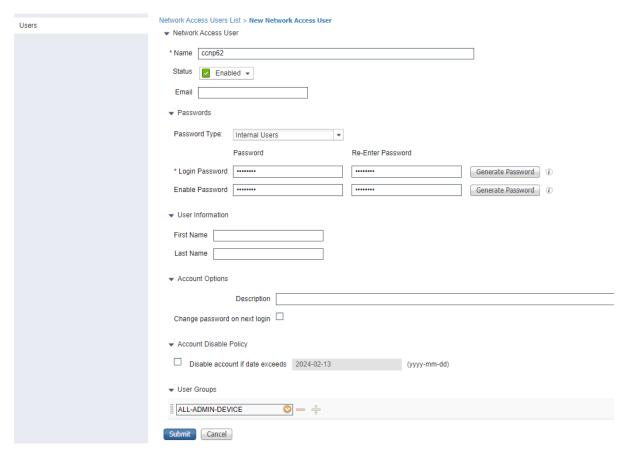
# 19. CLICK IDENTITIES



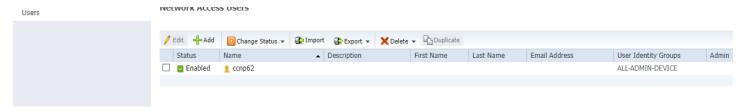
#### **CLICK "ADD"**



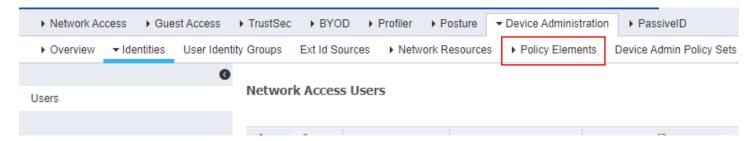
#### **FOLLOW THIS SETUP**



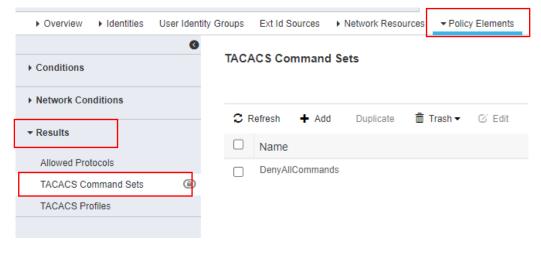
# THEN CLICK "SUBMIT"



# 20. CLICK POLICY ELEMENTS

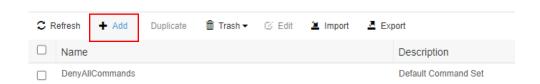


#### Policy Elements - Results - TACACS Command Sets

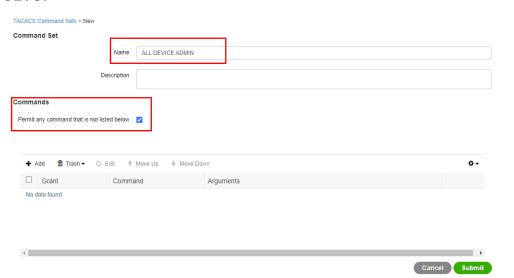


#### **CLICK "ADD"**

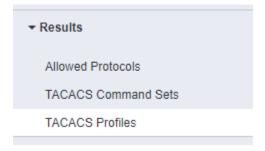
#### **TACACS Command Sets**



#### **FOLLOW THIS SETUP**

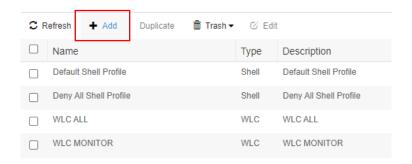


# 21. GO TO TACACS PROFILE

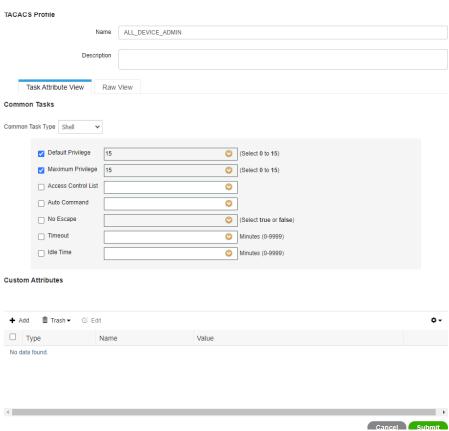


#### **CLICK ADD**

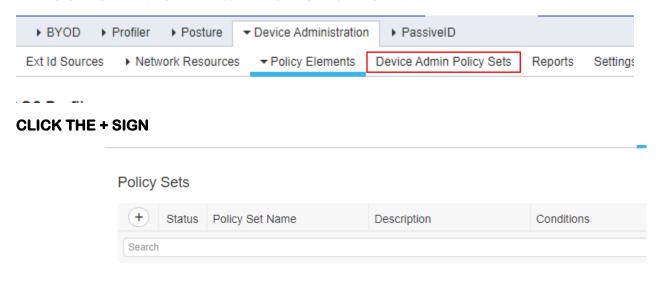
#### **TACACS Profiles**



# **FOLLOW THIS SETUP**



# 22. GO TO DEVICE ADMIN POLICY SETS

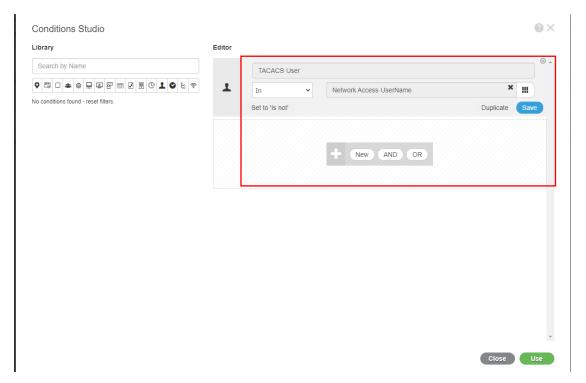


#### **NAME: Cisco Devices**



#### **CLICK THE + SIGN**

#### THEN FOLLOW THIS SETUP



THEN CLICK "USE"

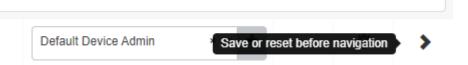
**SELECT: DEFAULT DEVICE ADMINS** 



#### **CLICK SAVE**



# **CLICK THE GREATER THAN SIGN ">"**



# **Expand "Authentication Policy (1)**

#### **Internal Users**



# **THEN EXPAND "Authorization Policy (1)**

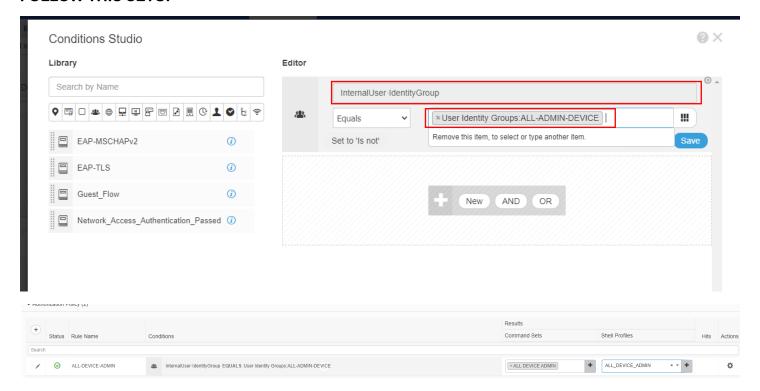
#### **CLICK THE + Sign**



#### **CLIK THE + SIGN**



#### **FOLLOW THIS SETUP**



THEN CLICK SAVE

#### 23. GO BACK TO CSR1000v TYPE THIS COMMAND

config t

aaa new-model

tacacs-server host 192.168.108.7

tacacs-server key C1sc0123

aaa authentication login default group tacacs+ local

do debug aaa authentication

do debug tacacs

end

conf t

enable secret pass

service password-encryption

end

**OPEN PUTTY THEN TRY TO LOGIN - 192.168.108.100** 

OPTIONAL #do test aaa group tacacs+ testadmin cisco legacy