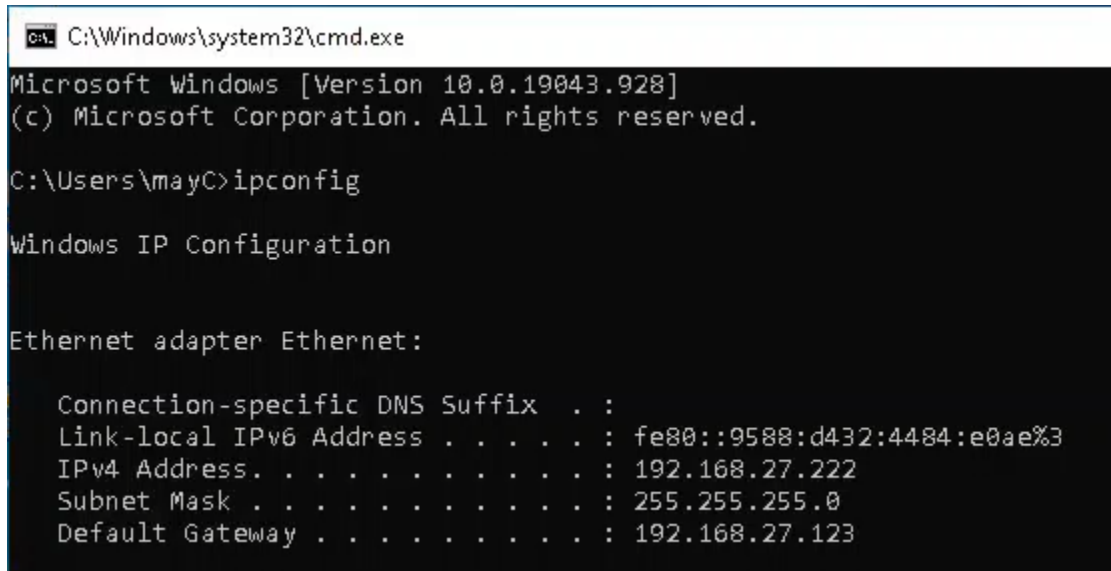


Owner: Hoàng Đình Phú

Step 1: Get Ipv4 Address from each computer from scattered cluster.

Use Command Prompt and run ipconfig



```
cmd C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19043.928]
(c) Microsoft Corporation. All rights reserved.

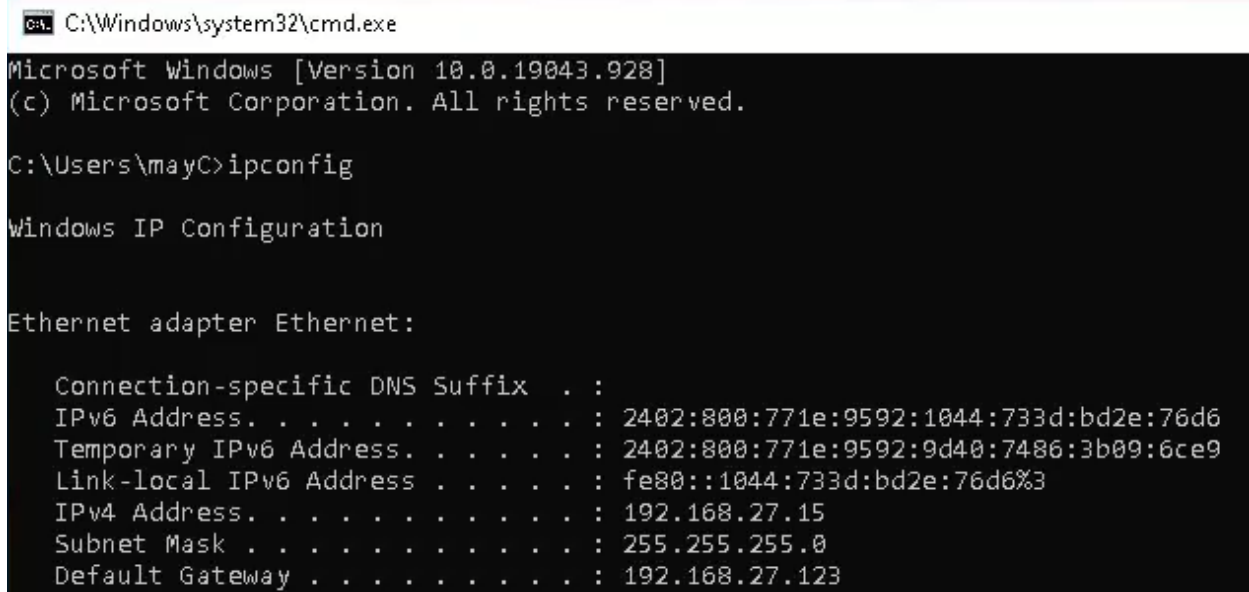
C:\Users\mayC>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::9588:d432:4484:e0ae%3
    IPv4 Address. . . . . : 192.168.27.222
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.27.123
```

Fig 1. IPv4 Address B



```
cmd C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19043.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mayC>ipconfig

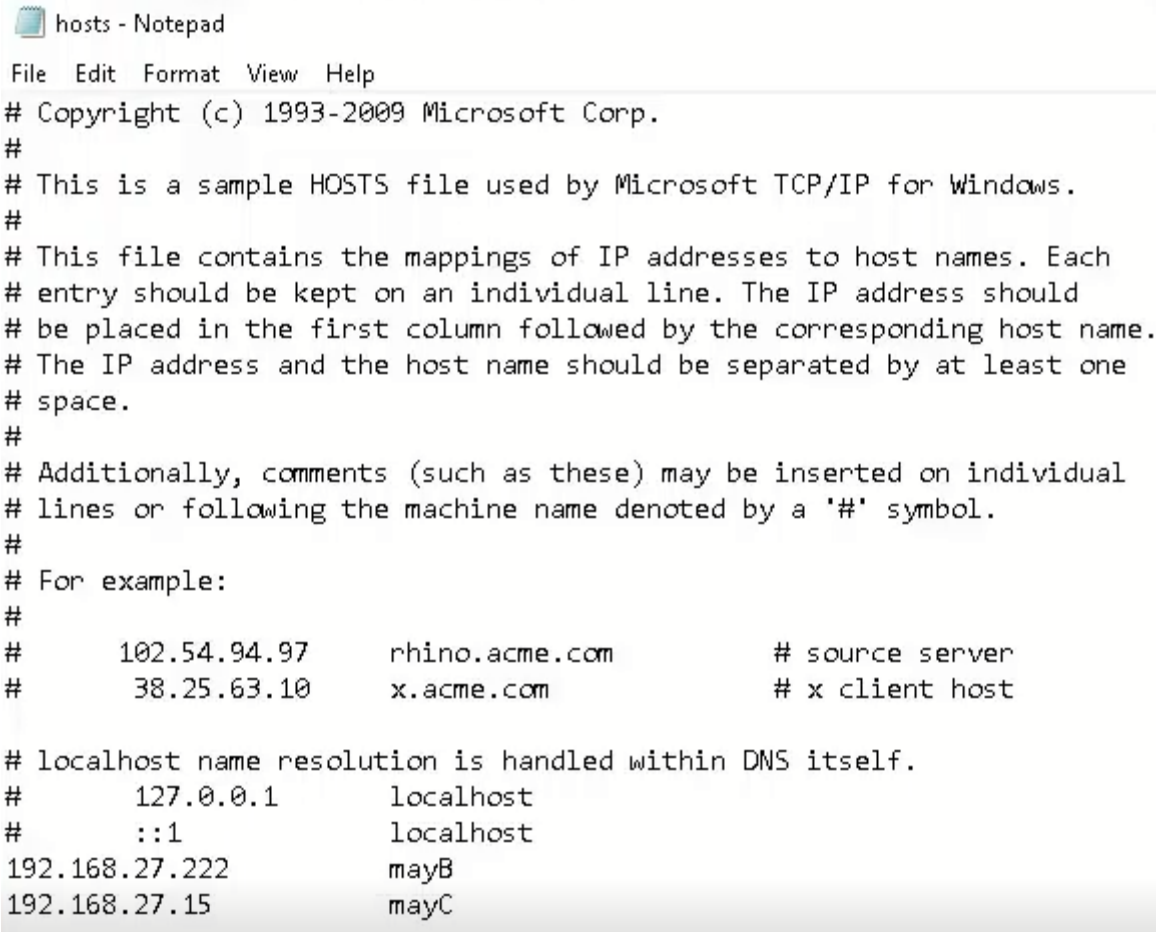
Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 
    IPv6 Address. . . . . : 2402:800:771e:9592:1044:733d:bd2e:76d6
    Temporary IPv6 Address. . . . . : 2402:800:771e:9592:9d40:7486:3b09:6ce9
    Link-local IPv6 Address . . . . . : fe80::1044:733d:bd2e:76d6%3
    IPv4 Address. . . . . : 192.168.27.15
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.27.123
```

Fig 2. Ipv4 Address C

Step 2: Add IPv4 B and IPv4 C into file host in folder C:\Windows\system32\drivers\etc



```
hosts - Notepad
File Edit Format View Help
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97       rhino.acme.com          # source server
#       38.25.63.10       x.acme.com              # x client host
#
# localhost name resolution is handled within DNS itself.
#       127.0.0.1         localhost
#       ::1               localhost
192.168.27.222           mayB
192.168.27.15           mayC
```

Fig 3. File host

- Repeat this step for each computer

Step 3: Create file config (Can use uploaded zeo.config)

- Create new file zeo.config have structure below:

```

1  <zeo>
2    address mayA:49762
3  </zeo>
4
5  <filestorage>
6    path CineSV.fs
7  </filestorage>
8
9  <eventlog>
10   <logfile>
11     path zeo.log
12     format %(asctime)s %(message)s
13   </logfile>
14 </eventlog>

```

Fig 4. File zeo.config

Tag <zeo></zeo> must be haved in file config

- After “address” is addres(“mayB”, “mayC” in step 2) and port. You can specify IPv4 Address here and ignore step 2. Port is unused port (Example: picture above)

Tag <filestorage></filestorage>

- After “path” is file database location. It is relative address folder (relative address folder which Command Prompt start in (more in next step))

Tag <eventlog><logfile></logfile></eventlog>

- After “path” is file log location. It is relative address folder (The same filestorage)
- format %(asctime)s %(message)s is structure of line log

Step 4: Start up Server Distributed

- Run “runzeo -C zeo.config” on cmd

```
C:\Windows\System32\cmd.exe - runzeo -C zeo.config
Microsoft Windows [Version 10.0.19042.1348]
(c) Microsoft Corporation. All rights reserved.

C:\CineSV>runzeo -C zeo.config
```

Fig 5. Cmd start up Server Distrubitued

- You need allow Python to communicate on these networks

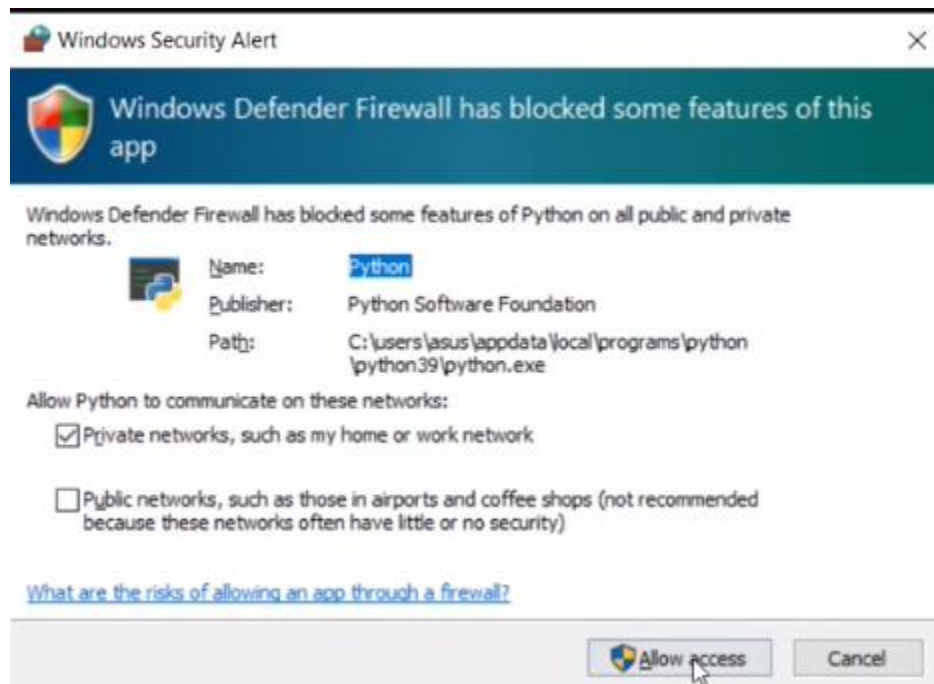


Fig 6. Notification Firewall

- Press button Allow access
- Wait for 15 seconds if Command Prompt do not rise any error => Start up Distributed Server successfully