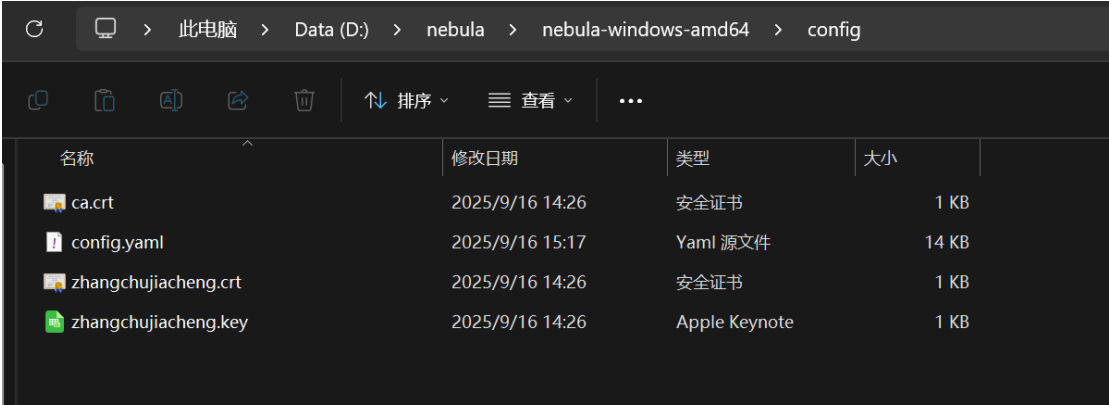


Place the certificate files into the config software package



The screenshot shows a Windows File Explorer window with the address bar displaying the path: 此电脑 > Data (D:) > nebula > nebula-windows-amd64 > config. The window shows four files in a table:

名称	修改日期	类型	大小
ca.crt	2025/9/16 14:26	安全证书	1 KB
config.yaml	2025/9/16 15:17	Yaml 源文件	14 KB
zhangchuijicheng.crt	2025/9/16 14:26	安全证书	1 KB
zhangchuijicheng.key	2025/9/16 14:26	Apple Keynote	1 KB

Adjust the configuration file in the following way:

```
pki:
# The CAs that are accepted by this node. Must contain one or more certificates
ca: D:\nebula\nbula-windows-amd64\config\ca.crt
cert: D:\nebula\nbula-windows-amd64\config\zhangchuijicheng.crt
key: D:\nebula\nbula-windows-amd64\config\zhangchuijicheng.key
# blocklist is a list of certificate fingerprints that we will refuse to talk to
```

Start the nebula using the administrator command window

```
C:\Windows\System32> D:\nebula\nbula-windows-amd64\nbula.exe -config D:\nebula\nbula-windows-amd64\config\config.yaml
time="2025-09-17T08:22:11+08:00" level=info msg="Firewall rule added" firewallRule="map[caName: caSha: direction:outgoing
endPort:0 groups:[ host:any ip: localIp: proto:0 startPort:0]"
time="2025-09-17T08:22:11+08:00" level=info msg="Firewall rule added" firewallRule="map[caName: caSha: direction:incoming
endPort:0 groups:[ host:any ip: localIp: proto:0 startPort:0]"
time="2025-09-17T08:22:11+08:00" level=info msg="Firewall started" firewallHashes="SHA:498215dec4e5687a2353f51c10838c113
b0d1af35ef72b8e8c9f536986ada5417, FNV:2782948616"
2025/09/17 08:22:11 Using existing driver 0.14
2025/09/17 08:22:11 Creating adapter
time="2025-09-17T08:22:12+08:00" level=info msg="listening on 0.0.0.0:554"
time="2025-09-17T08:22:12+08:00" level=error msg="Falling back to standard udp sockets" error="bind: The attempted operation
is not supported for the type of object referenced."
time="2025-09-17T08:22:12+08:00" level=info msg="Main HostMap created" network=192.168.100.154/24 preferredRanges="[]"
time="2025-09-17T08:22:12+08:00" level=info msg="punchy enabled"
time="2025-09-17T08:22:12+08:00" level=info msg="Loaded send_recv_error config" sendRecvError=always
time="2025-09-17T08:22:12+08:00" level=info msg="Nebula interface is active" boringcrypto=false build=1.9.6 interface=nebulal
network=192.168.100.154/24 udpAddr=":::554"
time="2025-09-17T08:22:13+08:00" level=info msg="Handshake message sent" handshake="map[stage:1 style:ix_psk0]" initiatorIndex=185035365 localIndex=185035365 remoteIndex=0 udpAddr="[104.243.20.247:554]" vpnIp=192.168.100.1
time="2025-09-17T08:22:13+08:00" level=info msg="Handshake message received" certName=lighthouse durationNs=147382700 fingerprint=fbf998b866c8275810dbec0c175cd7cbf31be03d0adc2a831ae16f9669a52617 handshake="map[stage:2 style:ix_psk0]" initiatorIndex=185035365 issuer=e430f526e15e22fd11dbb26e9482945865f17aa42c800481e56f68d087c892c0 remoteIndex=185035365 responderIndex=2060356059 sentCachedPackets=1 udpAddr="104.243.20.247:554" vpnIp=192.168.100.1
time="2025-09-17T08:22:19+08:00" level=info msg="Handshake timed out" durationNs=6765259600 handshake="map[stage:1 style:ix_psk0]" initiatorIndex=2554205816 localIndex=2554205816 remoteIndex=0 udpAddr="[]" vpnIp=192.168.100.255
```

Ping 192.168.100.1

```
C:\Windows\System32>ping 192.168.100.1

正在 Ping 192.168.100.1 具有 32 字节的数据:
来自 192.168.100.1 的回复: 字节=32 时间=146ms TTL=64
来自 192.168.100.1 的回复: 字节=32 时间=143ms TTL=64
来自 192.168.100.1 的回复: 字节=32 时间=143ms TTL=64
来自 192.168.100.1 的回复: 字节=32 时间=143ms TTL=64

192.168.100.1 的 Ping 统计信息:
    数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),
    往返行程的估计时间(以毫秒为单位):
        最短 = 143ms, 最长 = 146ms, 平均 = 143ms
```

Ssh [nuist@192.168.100.1](https://192.168.100.1) and ping www.google.com

```
C:\Windows\System32>ssh nuist@192.168.100.1
nuist@192.168.100.1's password:
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 5.15.0-151-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

This system has been minimized by removing packages and content that are
not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
New release '24.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Sep 17 00:11:34 2025 from 192.168.100.153
$ ping www.google.com
PING www.google.com (217.160.0.201) 56(84) bytes of data.
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=1 ttl=44 time=149 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=2 ttl=44 time=149 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=3 ttl=44 time=149 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=4 ttl=44 time=149 ms
64 bytes from 217-160-0-201.elastic-ssl.ui-r.com (217.160.0.201): icmp_seq=5 ttl=44 time=149 ms
```