

## 生成密钥

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```
ssh-keygen \  
  -m PEM \  
  -t rsa \  
  -b 4096 \  
  -C "laowang@qq.com" \  
  -N my_ssh_passwd
```

## Install OpenSSH

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```
# >>>  
Get-WindowsCapability -Online | Where-Object Name -like 'OpenSSH*'
```



```
<<<  
Name : OpenSSH.Client~~~~0.0.1.0  
State : NotPresent  
  
Name : OpenSSH.Server~~~~0.0.1.0  
State : NotPresent
```



```
# >>>
# Install the OpenSSH Client
Add-WindowsCapability -Online -Name OpenSSH.Client~~~~0.0.1.0

# Install the OpenSSH Server
Add-WindowsCapability -Online -Name OpenSSH.Server~~~~0.0.1.0
```



```
<<<
Path          :
Online        : True
RestartNeeded : False
```



```
# >>>
# Start the sshd service
Start-Service sshd

# OPTIONAL but recommended:
Set-Service -Name sshd -StartupType 'Automatic'

# Confirm the Firewall rule is configured. It should be created
automatically by setup. Run the following to verify
if (!(Get-NetFirewallRule -Name "OpenSSH-Server-In-TCP" -ErrorAction
SilentlyContinue | Select-Object Name, Enabled)) {
    Write-Output "Firewall Rule 'OpenSSH-Server-In-TCP' does not
exist, creating it..."
    New-NetFirewallRule -Name 'OpenSSH-Server-In-TCP' -DisplayName
'OpenSSH Server (sshd)' -Enabled True -Direction Inbound -Protocol TCP
-Action Allow -LocalPort 22
} else {
    Write-Output "Firewall rule 'OpenSSH-Server-In-TCP' has been
created and exists."
}
```

## Uninstall OpenSSH

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```
# Uninstall the OpenSSH Client
Remove-WindowsCapability -Online -Name OpenSSH.Client~~~~0.0.1.0

# Uninstall the OpenSSH Server
Remove-WindowsCapability -Online -Name OpenSSH.Server~~~~0.0.1.0
```

## Configuration OpenSSH

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### Default Terminal



```
New-ItemProperty -Path "HKLM:\SOFTWARE\OpenSSH" -Name DefaultShell -
Value "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe" -
PropertyType String -Force
```

### File

- C:\ProgramData\ssh\administrators\_authorized\_keys
- C:\ProgramData\ssh\sshd\_config
- C:\Users\<<UserName>\.ssh\authorized\_keys

### Config

- StrictModes no
- PubkeyAuthentication yes

- !!! PasswordAuthentication no !!!
- !!! PermiEmptyPasswords no !!!
- AuthorizedKeysFile  
\_\_PROGRAMDATA\_\_/ssh/administrators\_authorized\_keys

## Debug Model



```
Stop-Service sshd  
C:\Windows\System32\OpenSSH\sshd.exe -d
```

## Other



```
Restart-Service sshd # 重启服务  
Stop-Service sshd # 停止服务  
Start-Service sshd # 开启服务
```