

# Environment Setup

## Machines

Role	IP	Details
Host (Illiad)	192.168.1.119	Physical machine, user sits here
Linux guest	192.168.1.164	Claude Code runs here, user: harry
Windows guest	192.168.1.102	hostname: ops, user: bradmin, pass: tyc921202

Both guests accessed via noVNC from host. Clipboard doesn't work well.

## How to Manage Windows Remotely

```
sshpass -p 'tyc921202' ssh -o StrictHostKeyChecking=no bradmin@192.168.
```

- Default shell is PowerShell — use `;` not `&&` to chain commands
- `sshd` manually registered: `sc.exe create sshd binPath= "C:\Windows\System32\OpenSSH\sshd.exe" start= auto`
- Windows has SSH key auth back to Linux (bradmin@ops key in harry's `authorized_keys`)

## Proxy Chain (Internet Access)

Windows browser

- HTTP proxy (Privoxy 192.168.1.164:8119)
  - SOCKS5 proxy (autossh 127.0.0.1:8118, service: poly-tunnel)
    - poly-proxy remote server
      - internet

- **autossh tunnel:** systemd service `poly-tunnel`, `-D 8118`, enabled on boot
- **Privoxy:** listens on `127.0.0.1:8119` and `192.168.1.164:8119`, forwards via `forward-socks5t` to `127.0.0.1:8118`, enabled on boot
- **Windows proxy:** registry `HKCU:\...\Internet Settings`  
`ProxyServer=192.168.1.164:8119`, persists across reboot
- **Linux curl:** use `-x socks5h://127.0.0.1:8118`

## Key Gotchas

- Privoxy must use `forward-socks5t` (not `forward-socks5`) for HTTPS to work
- Chrome must be fully closed before relaunching with `--proxy-server` flags
- Don't kill all SSH processes on Windows — it kills the user's SSH session too
- Windows was on a domain whose DC is gone — domain-dependent services may fail
- NTP reconfigured to `ntp.aliyun.com` (old domain DC gone)