

AI-02018 Ubuntu RDP SSH Setup

Owner	Ⓒ Rigel Arcayan
Tags	Project
Created time	@August 26, 2025 9:59 AM

How to setup remote ssh and Remote Desktop in my Ubuntu server? How to remote ssh and RDP from my Windows laptop to my Ubuntu server? Does Ubuntu have powershell? Can I use powershell in windows to remote ssh?

Absolutely, Rigel! Let's build a clean, mission-ready protocol for remote access between your Windows laptop and Ubuntu server. I'll break it down into four key modules:

🔧 Module 1: Setting Up SSH on Ubuntu Server

1. Install OpenSSH Server:

```
sudo apt update
sudo apt install openssh-server
```

1. Check SSH status:

```
sudo systemctl status ssh
```

Ensure it's active. If not:

```
sudo systemctl enable ssh
sudo systemctl start ssh
```

1. Optional: Harden SSH security

- Edit `/etc/ssh/sshd_config` to disable root login, change port, etc.
- Restart SSH after changes:

```
sudo systemctl restart ssh
```

🖥️ Module 2: Setting Up Remote Desktop (RDP) on Ubuntu

Ubuntu doesn't natively support RDP like Windows, but you can install an RDP-compatible server:

Option A: xrdp (most common)

```
sudo apt install xrdp
sudo systemctl enable xrdp
sudo systemctl start xrdp
```

Option B: For smoother experience (especially with GNOME):

```
sudo apt install xrdp gnome-session gnome-terminal
echo "gnome-session" > ~/.xsession
```

Firewall (if enabled):

```
sudo ufw allow 3389/tcp
```

🖥️ Module 3: Connecting from Windows to Ubuntu

🔒 SSH from Windows:

- Use PowerShell, Command Prompt, or Windows Terminal:

```
ssh username@ubuntu-server-ip
```

- You can also use PuTTY if you prefer a GUI.

🖥️ RDP from Windows:

- Open Remote Desktop Connection (`mstsc`)
 - Enter your Ubuntu server's IP
 - Log in with your Ubuntu credentials

⚠️ Note: RDP may require a logged-in session on Ubuntu or tweaks to the desktop environment for smoother access.

🧠 Module 4: PowerShell on Ubuntu + Remote SSH from Windows PowerShell

✅ Ubuntu has PowerShell! Install it via Microsoft's repo:

```
sudo apt install wget apt-transport-https software-properties-common
wget -q "https://packages.microsoft.com/config/ubuntu/22.04/packages-
microsoft-prod.deb"
```

```
sudo dpkg -i packages-microsoft-prod.deb
sudo apt update
sudo apt install powershell
```

Launch it with:

```
pwsh
```

✔ Windows PowerShell can SSH: Since PowerShell 7+, SSH is built-in:

```
ssh username@ubuntu-server-ip
```

You can even script it:

```
$session = New-PSSession -HostName "ubuntu-server-ip" -UserName
"username"
Enter-PSSession $session
```

Would you like a printable checklist or a Mission Manual-style protocol sheet for this setup? I can format it like your other guides—with troubleshooting flags and legacy notes.