# **SSH Connection Guide**

## **Introduction**

This guide explains how to connect from an Ubuntu Intel NUC (server) to a Ubuntu laptop (client) using SSH. It includes installation steps, connection commands, and troubleshooting tips.

## **Prerequisites**

* Both machines are connected to the same WiFi network.
* SSH is installed on both machines.
* You have basic command-line knowledge.

## **Steps**

### **1. Install SSH**

Ensure SSH is installed on both machines.

**On the Ubuntu Intel NUC (Server):**

sudo apt update

sudo apt install openssh-server

**On the Ubuntu Laptop (Client):**

sudo apt update

sudo apt install openssh-client

Verify SSH installation:

ssh -V

### **2. Find IP Address of Intel NUC Laptop**

On the Intel NUC, open a terminal and run:

hostname -I

Note the IP address (e.g., 192.168.252.2).

### **3. Configure SSH on the Intel NUC**

Ensure the SSH service is running:

sudo systemctl start ssh

sudo systemctl enable ssh

sudo systemctl status ssh

### **4. Connect via SSH**

On the Ubuntu Laptop, open a terminal and run:

ssh username@192.168.252.2

(e.g ssh vtol2022@192.168.252.2)

Replace username with the actual username of the Intel NUC (vtol2022)  
and 192.168.252.22 with the Intel NUC's IP address.

### **5. Authentication**

If prompted, confirm the authenticity of the host by typing yes.

Enter the password for the specified user on the Ubuntu laptop.

### **6. Using SSH**

Once connected, you can navigate the filesystem, manage files, run programs, and perform system administration tasks on the Ubuntu laptop.

#### **Common Commands**

* List directory contents: ls
* Change directory: cd <directory>
* Print working directory: pwd
* Copy files: cp <source> <destination>
* Move/rename files: mv <source> <destination>
* Remove files: rm <file>
* Create directory: mkdir <directory>
* Edit files: nano <file> or vim <file>
* Update packages: sudo apt update
* Upgrade packages: sudo apt upgrade
* Manage services: sudo systemctl <command>

### **7. Exiting SSH**

To close the SSH session, type:

exit