# Passwordless SSH from VM to AWS EC2

This guide helps you connect from your VM to your AWS EC2 instance without using a password or .pem file repeatedly.

## ✅ Step-by-Step Instructions

### 🔹 Step 1: Generate SSH Key on Your VM

Run the following command on your VM:  
  
ssh-keygen -t rsa -b 2048  
  
Press Enter at each prompt to use default values. This creates a key pair at ~/.ssh/id\_rsa and ~/.ssh/id\_rsa.pub

### 🔹 Step 2: Copy the Public Key to EC2

On your VM, run:  
  
cat ~/.ssh/id\_rsa.pub  
  
Copy the entire output string.

### 🔹 Step 3: Login to EC2 with .pem File

ssh -i my-key.pem ec2-user@<EC2-Public-IP>

### 🔹 Step 4: Add Public Key to EC2

Once inside EC2:  
  
mkdir -p ~/.ssh  
nano ~/.ssh/authorized\_keys  
  
Paste the public key you copied.  
  
Then set the correct permissions:  
chmod 700 ~/.ssh  
chmod 600 ~/.ssh/authorized\_keys

### 🔹 Step 5: Test SSH Login from VM

Now, from your VM:  
  
ssh ec2-user@<EC2-Public-IP>  
  
You should login without needing a password or .pem file.

For production, ensure proper security measures like limiting IP access in your EC2's Security Group.