Creat a new user in your Vagrant VM and allow them to use an existing SSH private key (similar to the default `vagrant` user)

To create a new user in your Vagrant VM and allow them to use an existing SSH private key (similar to the default `vagrant` user), follow these steps:

Step 1: Create a New User

1. Create the New User**:

   Use the following command to create a new user (replace `newuser` with your desired username):
   ```bash

   **sudo adduser newuser**

   Follow the prompts to set a password and other details.

**Step 2: Set Up SSH Access for the New User**

1. Create the `.ssh` Directory:

   Switch to the new user:

   **sudo su - newuser**

   Create the `.ssh` directory:

   **mkdir ~/.ssh**
   **chmod 700 ~/.ssh**

2. Copy the Public Key:
   If you want to use the existing public key from the `vagrant` user, you can copy the public key from `vagrant` to the new user. First, switch back to the `vagrant` user:

   **exit**

   Then, copy the public key:

   **sudo cp /home/vagrant/.ssh/authorized_keys /home/newuser/.ssh/**
   **sudo chown newuser:newuser /home/newuser/.ssh/authorized_keys**

   Make sure the permissions are correct:

**sudo chmod 600 /home/newuser/.ssh/authorized_keys**

**Step 3: Allow the New User to Use the Private Key**

1. Using the Existing Private Key:
   - Ensure that the new user has access to the private key that corresponds to the copied public key. The private key should typically be stored on the machine from which you will SSH into the Vagrant VM (not within the Vagrant VM itself).
   - Ensure that the private key file is protected (permissions should be `400` or `600`).

**Step 4: Test SSH Access**

1. Exit the Vagrant VM:

   **exit**

2. SSH into the Vagrant VM as the New User:
   Use the private key associated with the public key you copied to try logging in:

   **ssh -i /path/to/your-private-key newuser@<Vagrant_VM_IP>**

Summary
These steps will create a new user in your Vagrant VM and set them up to use the existing SSH public key for authentication. Ensure you have the corresponding private key available for SSH access.