

# Error: No Matching Host Key Type Found

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## Error: No Matching Host Key Type Found

When trying to SSH into an older servers, you might see an error message like the one in the screenshot below.

```
root@debian:~#  
root@debian:~#  
root@debian:~# ssh root@192.168.1.10  
Unable to negotiate with 192.168.1.10 port 22: no matching host key type found. Their offer: ssh-rsa  
root@debian:~#  
root@debian:~#  
root@debian:~#
```

Both server and client must support and agree upon a common set of parameters to establish a functioning connection using OpenSSH. If there is a mismatch or disagreement on these parameters, the connection attempt will fail. The above error occurs because the server and client do not support the same type of host key. This often happens when the SSH server is newer than the SSH client being used.

The client only supports “ssh-rsa,” but server does not support this. The ssh-rsa signature scheme was deprecated in OpenSSH 8.8, released on August 20, 2021.

**The simplest way to fix the error** is to follow the steps below

Add the options **-o** to the **command**, like below:

```
ssh -p port_number username@ip_address -o HostKeyAlgorithms+=ssh-rsa
```

Example: `ssh -p 2024 root@192.168.1.10 -o HostKeyAlgorithms+=ssh-rsa`

```
root@debian:~#  
root@debian:~#  
root@debian:~#  
root@debian:~#  
root@debian:~# ssh root@192.168.1.10 -o HostKeyAlgorithms+=ssh-rsa  
The authenticity of host '192.168.1.10 (192.168.1.10)' can't be established.  
RSA key fingerprint is SHA256:oQZEd02PL/JYQrWEhGywFkm3Bph2LL+kTNUaI5Wl66U.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '192.168.1.10' (RSA) to the list of known hosts.  
root@192.168.1.10's password:  
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-97-generic x86_64)
```

If the problem is **specific to one user**, follow these step

Add the following line in `/home/user_name/.ssh/config`. Substitute "192.168.1.10" with the IP address of the server you are trying to connect to. After attempt to SSH to the server.

```
root@client:~# vi /home/user_name/.ssh/config
```

```
Host 192.168.1.10  
HostKeyAlgorithms +ssh-rsa
```

**For a permanent fix**, include the following lines in the `ssh_config` file.

```
root@client:~# nano /etc/ssh/sshd_config
```

```
HostKeyAlgorithms +ssh-rsa
```

Save the file and restart `sshd`. After the steps ssh to the server as normal.

Online URL: <https://www.ezeelogin.com/kb/article/error-no-matching-host-key-type-found-707.html>