

Error: No Matching Host Key Type Found

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How to solve Error: No Matching Host Key Type Found ?

Overview: This article helps to resolve the error **No Matching Host Key Type Found** when trying to SSH into older OS versions.

When trying to SSH into an older OS versions, 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:~#
```

This issue arises because both the server and client must support and agree upon a common set of parameters to establish a successful 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 the “ssh-rsa” signature scheme, which is no longer supported by the server. This is because “ssh-rsa” was deprecated starting with OpenSSH version 8.8, released on August 20, 2021.

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

Step 1: Add the option **-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)
```

Step 2: If the problem is specific to one user, follow the below step

Add the following lines to **/home/username/.ssh/config**, replacing "192.168.1.10" with the actual IP address of the server you are trying to connect to. Then, try connecting to the server via SSH.

```
root@client:~# vi /home/user_name/.ssh/config  
  
Host 192.168.1.10  
HostKeyAlgorithms +ssh-rsa
```

Step 3: For a permanent fix, include the following lines in the ssh_config file.

```
root@client:~# nano /etc/ssh/sshd_config  
  
HostKeyAlgorithms +ssh-rsa
```

Step 4: Save the file and restart the SSH service. Once done, you can SSH into the server as usual.

```
root@client:~# systemctl restart sshd
```

Related Articles:

[userauth_pubkey: signature algorithm ssh-rsa not in PubkeyAcceptedAlgorithms](#)

[no matching host key type found. Their offer: ssh-rsa,ssh-dss \[preauth\]](#)

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