userauth_pubkey: signature algorithm ssh-rsa not in PubkeyAcceptedAlgorithms

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userauth_pubkey: signature algorithm ssh-rsa not in PubkeyAcceptedAlgorithms

Overview: This article provides steps to troubleshoot and resolve the "userauth_pubkey: signature algorithm ssh-rsa not in PubkeyAcceptedAlgorithms" error, enable ssh-rsa authentication, and view available key types and key exchange algorithms on a Linux server.

Step 1. Login to server and tail **/var/log/secure** to check errors. Refer below example.

```
root@gateway ~]# tail -f /var/log/secure

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```

Step 2. Find which key type is used in the server by running the below command.

```
root@gateway ~]# ssh-keygen -l -f /usr/local/etc/ezlogin/id_key.pub
4096 SHA256:n4lmX53/gwkKB4+nSQ30hZXxXK+DRG1LPc7N1KN/1Ag ezlogin (RSA)
```

In the above example, the RSA key type is used.

Step 3. Run the following command to see which all key types are enabled on the server.

```
root@gateway ~]# sshd -T | grep -i key

pubkeyacceptedalgorithms ssh-ed25519-cert-v01@openssh.com,ecdsa-sha2-nistp256-cert-v01@openssh.com,ecdsa-sha2-nistp384-cert-v01@openssh.com,ecdsa-sha2-nistp521-cert-v01@openssh.com,sk-ssh-ed25519-cert-v01@openssh.com,sk-ecdsa-sha2-nistp256-cert-v01@openssh.com,rsa-sha2-512-cert-v01@openssh.com,rsa-sha2-256-cert-v01@openssh.com,ssh-ed25519,ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,sk-ssh-ed25519@openssh.com,sk-ecdsa-sha2-nistp256@openssh.com,rsa-sha2-512,rsa-sha2-256
```

Step 4. Open **/etc/ssh/sshd_config** and append the below line to enable ssh-rsa.

```
root@gateway ~]# vim /etc/ssh/sshd_config

PubkeyAcceptedKeyTypes +ssh-rsa

root@gateway ~]# systemctl restart sshd
```

Step 5. Re-run the below command and confirm that ssh-rsa has been enabled.

```
root@gateway ~]# sshd -T | grep -i key

pubkeyacceptedalgorithms ssh-ed25519-cert-v01@openssh.com,ecdsa-sha2-nistp256-cert-v01@openssh.com,ecdsa-sha2-nistp384-cert-v01@openssh.com,ecdsa-sha2-nistp521-cert-v01@openssh.com,sk-ssh-ed25519-cert-v01@openssh.com,sk-ecdsa-sha2-nistp256-cert-v01@openssh.com,rsa-sha2-512-cert-v01@openssh.com,rsa-sha2-256-cert-v01@openssh.com,ssh-ed25519,ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,sk-ssh-ed25519@openssh.com,sk-ecdsa-sha2-nistp256@openssh.com,rsa-sha2-512,rsa-sha2-256,ssh-rsa
```

Step 6. Try to modify the user now and confirm it's working fine.

We highly recommend regenerating the cluster keys, as the new keys support modern and secure key types such as ed25519 and ecdsa, since older RSA keys are less secure.

Refer article to regenerate cluster key: **https://www.ezeelogin.com/kb/article/how-to-reset-cluster-keys-in-ezeelogin-master-slave-configuration-219.html**

How to view the list of KEX and Keys in the Linux server?

How to list **keys** in the Linux server?

```
root@linux ~]# ssh -Q key

ssh-ed25519
ssh-ed25519-cert-v01@openssh.com
ssh-rsa
ssh-dss
ecdsa-sha2-nistp256
ecdsa-sha2-nistp384
ecdsa-sha2-nistp521
ssh-rsa-cert-v01@openssh.com
ssh-dss-cert-v01@openssh.com
ecdsa-sha2-nistp256-cert-v01@openssh.com
ecdsa-sha2-nistp384-cert-v01@openssh.com
ecdsa-sha2-nistp521-cert-v01@openssh.com
```

How to list **KEX** in the Linux server?

```
root@linux ~]# ssh -Q kex

diffie-hellman-group1-sha1
diffie-hellman-group14-sha1
diffie-hellman-group14-sha256
diffie-hellman-group16-sha512
diffie-hellman-group18-sha512
diffie-hellman-group-exchange-sha1
```

diffie-hellman-group-exchange-sha256
ecdh-sha2-nistp256
ecdh-sha2-nistp384
ecdh-sha2-nistp521
curve25519-sha256
curve25519-sha256@libssh.org

Related Articles:

Error: User modify failed. Cannot modify user on this node: Authentication by SSH key failed!

Error: User modify failed. Cannot modify user on other node: Authentication by SSH key failed!

Online URL: https://www.ezeelogin.com/kb/article/userauth_pubkey-signature-algorithm-ssh-rsa-not-in-pubkeyacceptedalgorithms-518.html