

Troubleshoot SSH Host Key Verification Failure

Contents

Introduction

This document describes the process to fix the SSH **Host key verification failed** issue.

Background

This error occurs when a user tries to SSH to DNACenter's grapevine after DNACenter image was upgraded. So far, this issue has only been seen in macOS users.

Description

After DNACenter is upgraded to a new image, the local user's SSH key registry file maintains the SSH key used to connect to the previous DNACenter's grapevine build. This is the error:

```
MPAVLOVI-M-902T:~ mpavlovi$ ssh grapevine@172.16.21.86 -p 2222
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@    WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!    @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ECDSA key sent by the remote host is
SHA256:+dnn+NRIXTDMmgpUNbeqjdQscabBBWmC35F01ZFnLs.
Please contact your system administrator.
Add correct host key in /Users/mpavlovi/.ssh/known_hosts to get rid of this message.
Offending ECDSA key in /Users/mpavlovi/.ssh/known_hosts:16
ECDSA host key for [172.16.21.86]:2222 has changed and you have requested strict checking.
Host key verification failed.
MPAVLOVI-M-902T:~ mpavlovi$
```

Solution

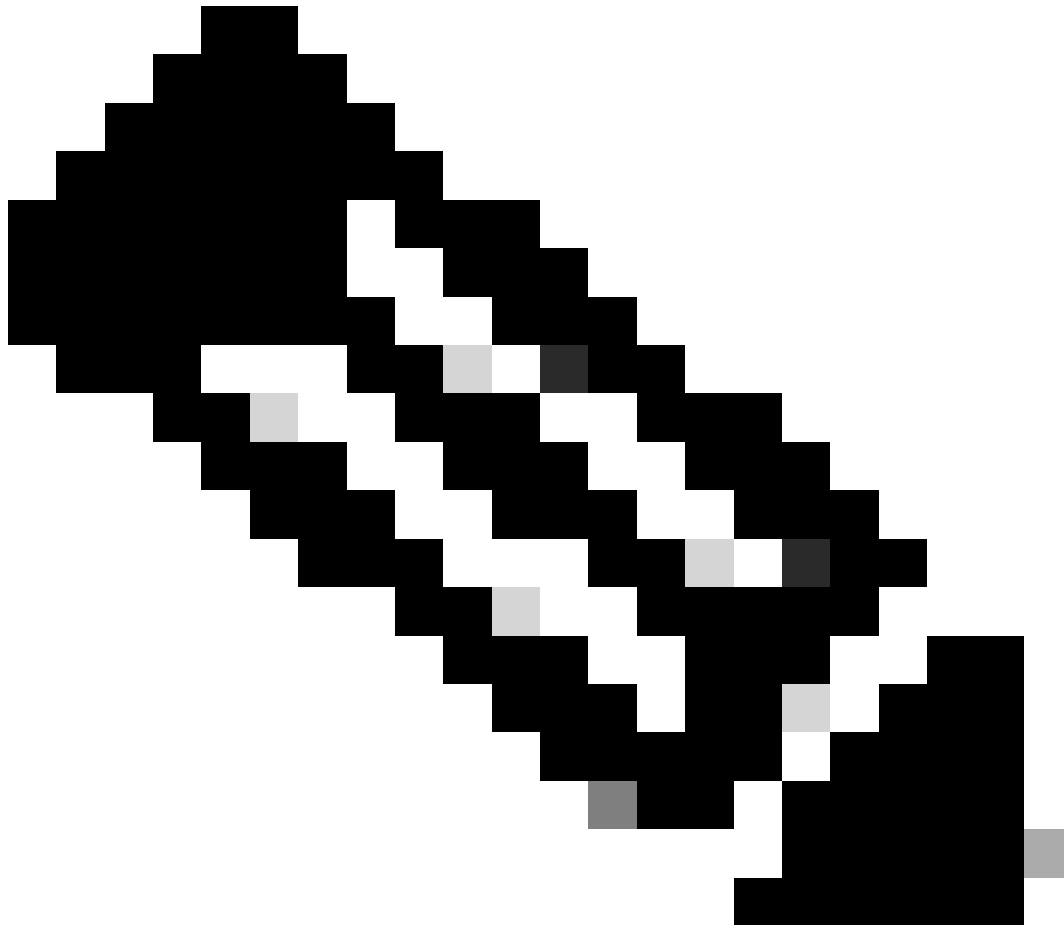
In order to solve this issue, the previous grapevine SSH key needs to be deleted from the registry file **known_host** at the local directory **~/.ssh/**.

To delete the previous SSH keys, go to terminal and use your text editor of choice to open the file:

```
MPAVLOVI-M-902T:~ mpavlovi$ vim ~/.ssh/known_hosts
```

Proceed to delete the line that includes the DNACenter IP address in it

```
[10.197.218.12]:2222 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBKkToWAUHe  
[172.16.21.86]:2222 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBKkz40bQLQE7
```



Note: Modifying other keys can affect your SSH access to other devices/sites. Delete **ONLY** the necessary **SSH key/s**.

```
[10.197.218.12]:2222 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBKkToWAUHe
```

Save the changes in the text editor and retry to SSH to DNACenter grapevine. Type the word "yes" when prompt.

```
MPAVLOVI-M-902T:~ mpavlovi$ ssh grapevine@172.16.21.86 -p 2222
The authenticity of host '[172.16.21.86]:2222 ([172.16.21.86]:2222)' can't be established.
ECDSA key fingerprint is SHA256:+dnn+NRIXTDMmgpUNbeqjdQscabBBWmC35F01ZFnLs.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[172.16.21.86]:2222' (ECDSA) to the list of known hosts.
```

Use grapevine credential password.

```
grapevine@172.16.21.86's password:
```

```
Welcome to the Cisco APIC-EM Appliance - Powered by Grapevine
```

```
System information as of Wed Jul 19 22:20:17 UTC 2017
```

```
System load: 1.02           Users logged in:          1
Usage of /: 11.7% of 365.80GB IP address for eth0:      12.99.1.2
Memory usage: 41%          IP address for eth1:      172.16.21.86
Swap usage: 0%             IP address for grape-br0: 169.254.0.1
Processes: 695
```

```
APIC-EM Version: 2.0.0.3757
Grapevine Version: 2.0.0.3757.dev1065-ge50d0c2
```

```
Last login: Wed Jul 19 21:45:22 2017 from 10.41.49.41
(grapevine)
```

```
[Wed Jul 19 22:20:18 UTC] grapevine@12.99.1.2 (grapevine-root-1) ~
$
```