Server Unexpectedly Closed the Network Connection_RDP SSH

Last updated by | Maria Radu | Oct 16, 2022 at 11:15 PM PDT

Tags	
cw.TSG	cw.RDP-SSH

Contents

- Symptoms
- Root Cause Analysis
 - References
 - Tracking close code for this volume
- Refresher / Training Template
- Customer Enablement
- Mitigation
 - Mitigation 1
 - Mitigation 2
- Need additional help or have feedback?

Symptoms

1. You cannot SSH into the server as when you try, SSH responds but reject the connection and drop with the following error:

Server unexpectedly closed the network connection

- 2. The VM is setup to authenticate using a certificate key
- 3. Pull the inspect laas log (/var/log) and look for the file **auth.log** and you'll find something like described below:

Note: If you have this symptom then go to RCA1 and proceed with the mitigations 1,2,3 and 4

Root Cause Analysis

Customer has set too permissive rights on the file /etc/ssh/ssh_host_ecdsa_key.

References

- How to use SSH keys with Windows on Azure ☑
- Quick steps: Create and use an SSH public-private key pair for Linux VMs in Azure
- Generate and use a SSH Key with PuTTY and an Azure Linux VM Z
- Linux Escalation doc

Tracking close code for this volume

Root Cause	Product	Support Topic	Cause Tracking code	Bug
1	Azure Virtual Machine – Linux	Routing Azure Virtual Machine V3\Cannot Connect to my VM\Failure to connect using RDP or SSH port	Root Cause - Windows Azure\Compute\Virtual Machine\Guest OS - Linux\SSH Service\SSH-Client SSH Key Issues	

To know how to flag a bug on a case please refer to How to do Proper Case Coding

Refresher / Training Template

 For the purpose of training or following along with this TSG, you can use the following link to deploy a VM with this scenario built-in. You will need to enable JIT for the VM. This lab is not to be shared with customers.



Customer Enablement

- https://learn.microsoft.com/en-us/troubleshoot/azure/virtual-machines/detailed-troubleshoot-ssh-
- https://learn.microsoft.com/en-us/troubleshoot/azure/virtual-machines/troubleshoot-ssh-permissions-tooopen 🛚

Mitigation

Mitigation 1

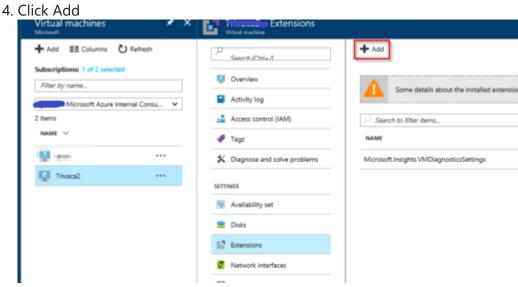
Create a custom script and execute it using the **Custom Script for Linux** extension on the portal:

1. Create a file called **script.sh** in your desktop using notepad

2. Paste this content to the file:

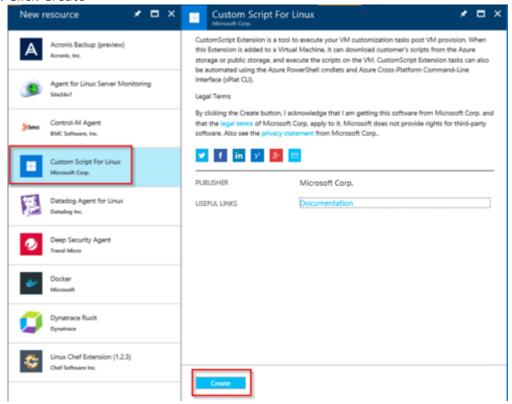
```
#!/bin/bash
sudo chmod -R 600 /etc/ssh
sudo chmod 700 /etc/ssh/ssh_host*key
sudo chmod 644 /etc/ssh/ssh_host*key.pub
sudo chmod 640 /etc/ssh/sshd_config
```

- 3. Save the file
- 1. Navigate to the Azure Portal
- 2. Click the VM you are having issues
- 3. Click Extensions

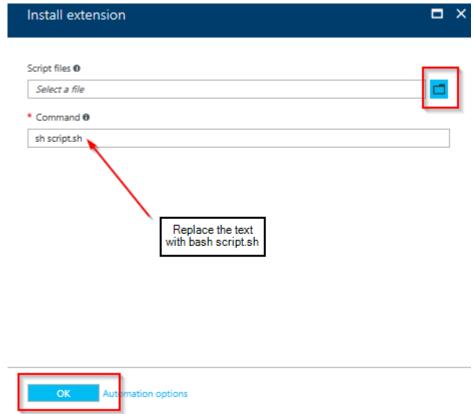


5. Select "Custom Script for Linux"

6. Click Create



- 7. Inside the box "Script Files" click the icon to browse and open the file you created on step (1)
- 8. Inside the box "Command" replace the text with bash script.sh
- 9. Click OK



Mitigation 2

Another option would be to use a temp VM to set the right permissions on the /etc/ssh/ssh_host_ecdsa_key' file https://supportability.visualstudio.com/AzurelaaSVM/_wiki/wikis/AzurelaaSVM/495366/Server-Unexpectedly-Closed-the-Network-Connection_RDP-SSH 4/6

- 1. From now on lets refer to the following naming convention
 - A = Original VM (Inaccessible VM)
 - **B** = New VM (New Recovery VM) which needs to be the same version as the impacted VM or at least the same distribution �
- 2. Stop VM A via Azure Portal. For Resource Manager VM, we recommend to save the current VM information before deleting
 - Azure CLI:

```
azure vm show ResourceGroupName LinuxVmName > ORIGINAL VM.txt
```

Azure PowerShell:

```
Get-AzureRmVM -ResourceGroupName $rgName -Name $vmName
```

- 3. Before deleting the VM, ensure that you have exported its configuration:
 - Recreate an ARM Virtual Machine
 - Recreate an RDFE Virtual Machine
- 4. Delete VM A BUT select keep the attached disks

NOTE:The option to keep the attached disks is only available for classic deployments, for Resource Manager deleting a VM will always keep its OSDisk by default.

- 5. Once the lease (it could take 1-3mins) is cleared, attach the Data Disk from **A** to VM **B** via the Azure Portal, Virtual Machines, Select & B&, Attach Disk
- 6. On VM **B** eventually the disk will attach and you can then mount it.
- 7. Locate the drive name to mount, on VM B look in relevant log file note each Linux is slightly different.
 - o For Ubuntu/debian:

```
grep SCSI /var/log/kern.log
```

For Centos/Suse/Oracle/Redhat:

```
grep SCSI /var/log/messages
```

8. Mount the drive in a mountpoint like /recovery. The example below is for broken disk recognized as /dev/sdc1

```
sudo mkdir /recovery
mount /dev/sdc1 /recovery
```

9. Now proceed to change the ACLs over the SSH key

```
cd /recovery/etc/ssh/
sudo chmod -R 600 /etc/ssh
sudo chmod 700 /etc/ssh/ssh_host*key
sudo chmod 644 /etc/ssh/ssh_host*key.pub
sudo chmod 640 /etc/ssh/sshd config
```

10. Unmount the drive

```
umount /dev/sdc1
```

Note: Ensure that you are not inside /recovery before unmounting otherwise, the command will fail.

11. Detach the disk and recreate the VM

Need additional help or have feedback?

To engage the Azure RDP-SSH SMEs	To provide feedback on this page	To provide kudos on this page
Please reach out to the RDP-SSH SMEs of for faster assistance. Make sure to use the Ava process for faster assistance.	Use the RDP-SSH Feedback form to submit detailed feedback on improvements or new content ideas for RDP-SSH. Please note the link to the page is required when submitting feedback on existing pages! If it is a new content idea, please put N/A in the Wiki Page Link.	Use the RDP-SSH Kudos form to submit kudos on the page. Kudos will help us improve our wiki content overall! Please note the link to the page is required when submitting kudos!