

Lab - Reset a Lost Administrator password in Windows Server

Overview

In this lab, you will learn how to reset a lost administrator password for a Windows Server 2012, 2016 or 2019 standalone server or domain controller. Anyone who works with Microsoft operating systems long enough will be called upon to either reset or attempt to recover a lost or forgotten administrative password. Administrator's quit or get terminated, and some will reset the administrator password on the way out the door. Office managers forget their server administrator password or the machine has become infected with malware.

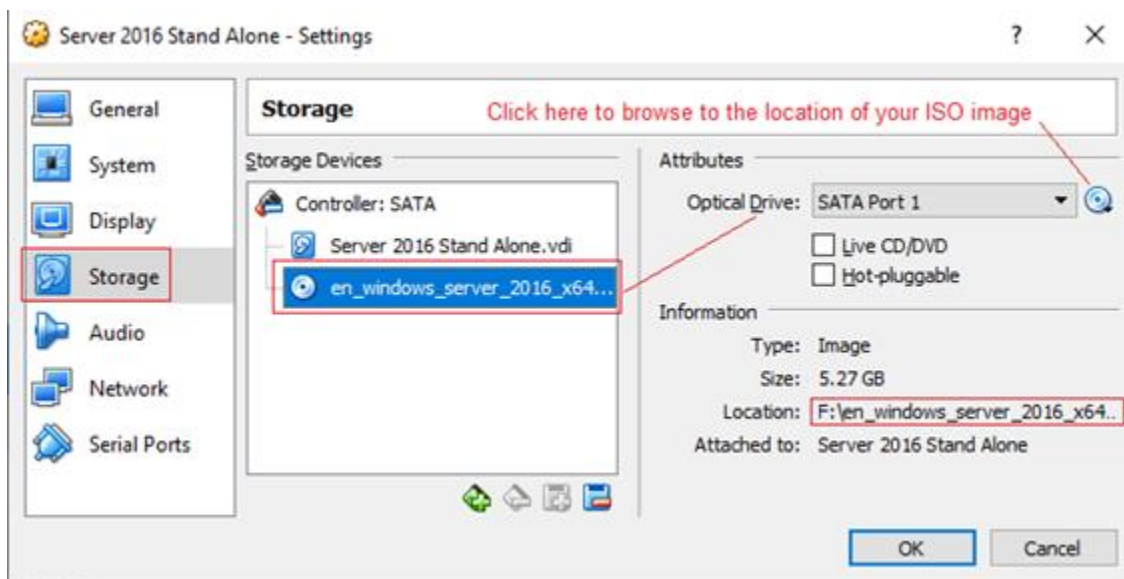
Hardware Requirements

- One virtual or physical install of Server 2012, 2016 or 2019 running as a standalone server or as a domain controller.
- ISO image or the physical media (DVD) for either Server 2012, 2016, or 2019.

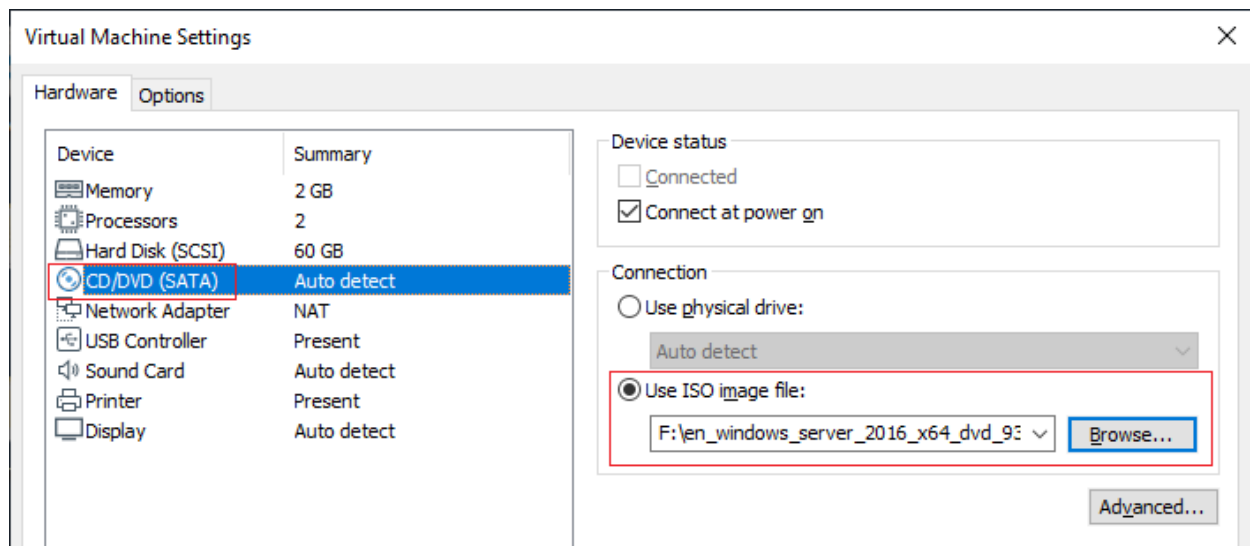
Begin the lab!

For this demonstration, we will be using a virtual install of Server 2016 running inside of VirtualBox. The same procedure would apply using Hyper-V or VMWare or a physical machine. The machine first needs to be configured to boot from either the ISO image or the DVD media. If you are using a virtual machine, you can set the VM to boot from the ISO image accessing the Settings for the VM, selecting Storage and selecting the optical drive as the first boot device.

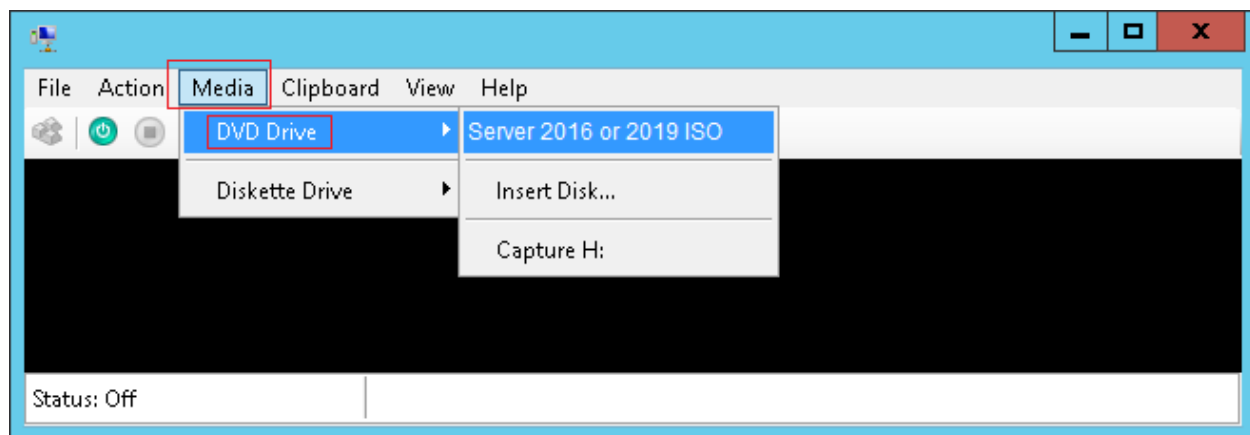
For VirtualBox



For VMWare



For Hyper-V

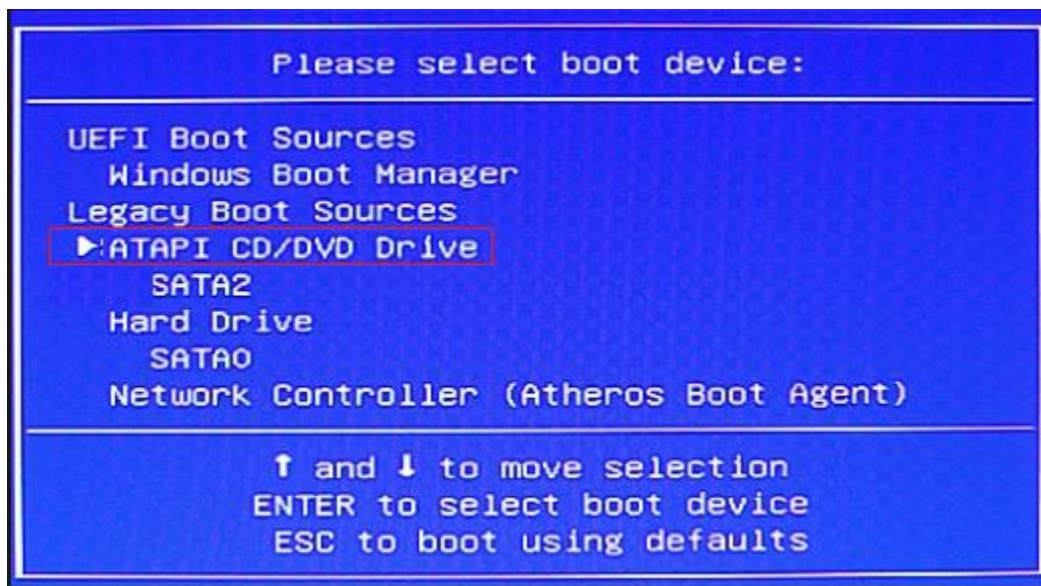


For a physical install of the server, you would need to boot into the system BIOS or insert the DVD and during the boot process, press the F12 key and select the optical/DVD drive as the first boot device.

Using F12

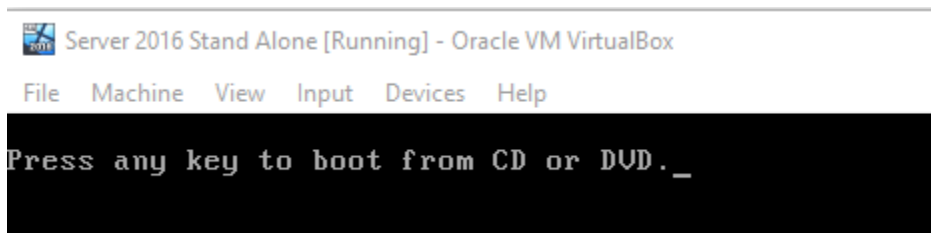


Setting the boot device using the BIOS

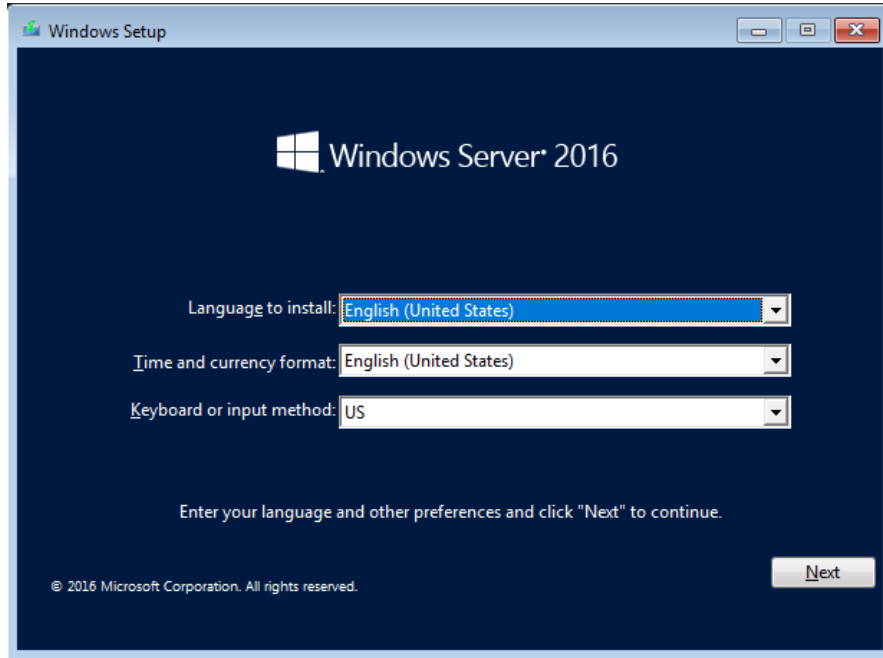


You'll want to go back into your setting once the password has been reset and restore your settings to boot from your hard drive or virtual disk.

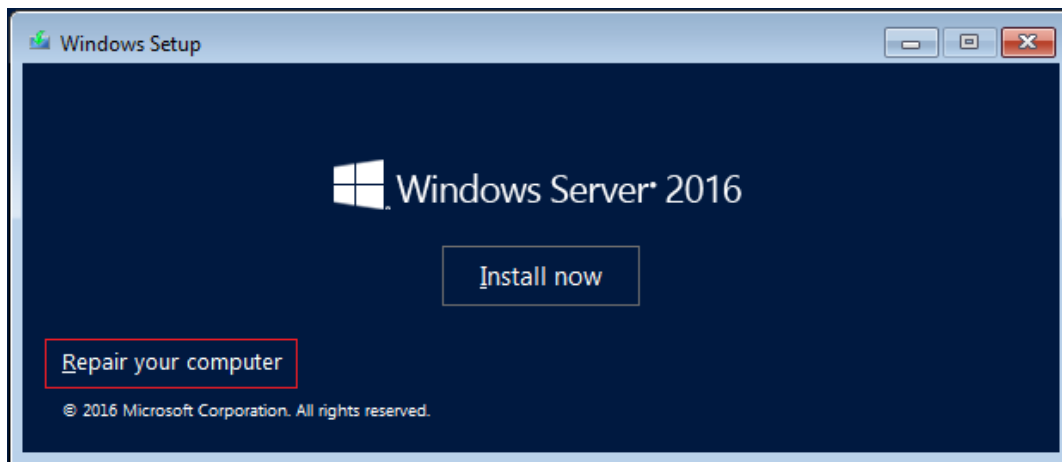
With the ISO or physical media selected as the boot device, you will see the following message. Hit Enter when you see the message. This will begin the installation process.



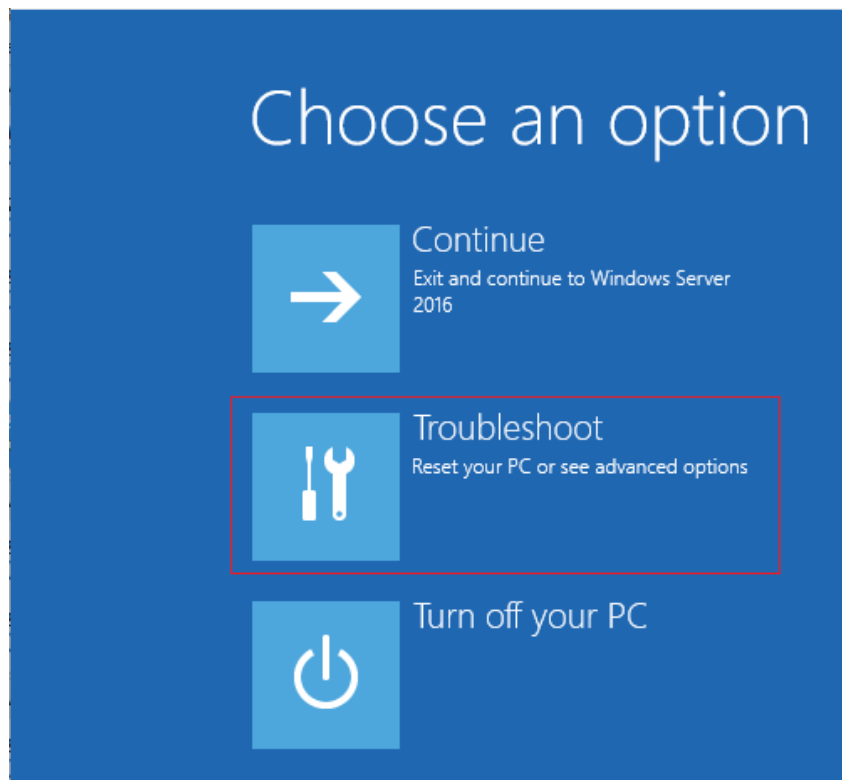
On the first screen of the windows setup, press enter.



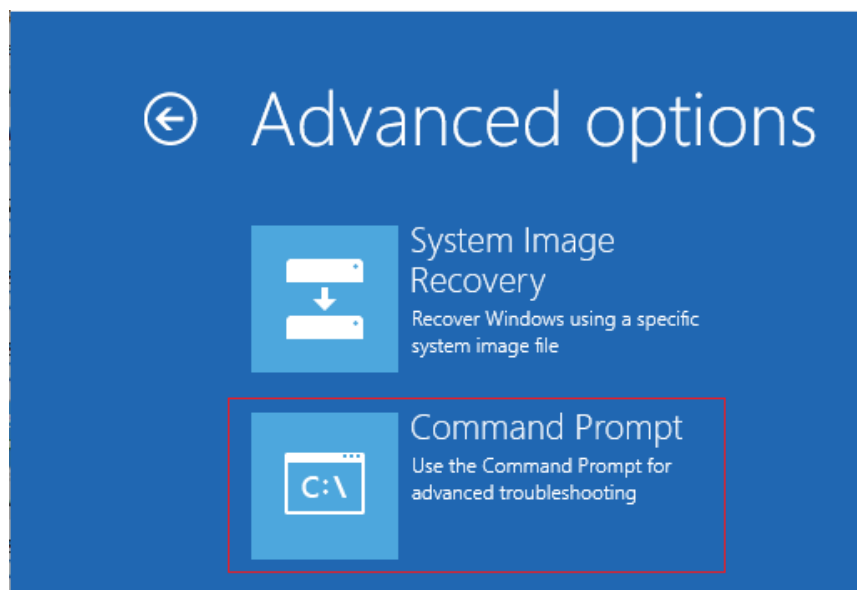
On the next screen, select the repair your computer option.



On the next screen, troubleshoot option.



On the next screen, select the option for the Command Prompt.



```
Administrator: X:\windows\SYSTEM32\cmd.exe

C:\>D:↵Change over to the boot partition for your machine. Either the C or the D drive.

D:\>dir↵List the contents of your boot partition and find the your Windows directory.
Volume in drive D has no label.
Volume Serial Number is 62DB-7DEF

Directory of D:\

09/12/2016  03:35 AM    <DIR>          Logs
07/16/2016  05:23 AM    <DIR>          PerfLogs
09/12/2016  03:35 AM    <DIR>          Program Files
07/16/2016  05:23 AM    <DIR>          Program Files (x86)
01/20/2019  05:20 PM    <DIR>          Users
01/20/2019  05:20 PM    <DIR>          Windows
               0 File(s)              0 bytes
               6 Dir(s)  41,888,628,736 bytes free

D:\>_
```

Change over to the windows\system32 directory

```
cd windows\system32
```

```
Administrator: X:\windows\SYSTEM32\cmd.exe

D:\>cd windows\system32
D:\Windows\System32>_
```

We now need to rename the Utilman.exe to Utilman.old

Utilman.exe is a built-in Windows application that is designed to allow the user to configure Accessibility options such as the Magnifier, High Contrast Theme, Narrator and On-Screen Keyboard before they log onto the system.

We can use to bypass the Windows login screen.

```
ren Utilman.exe Utilman.exe.old
```

```
Administrator: X:\windows\SYSTEM32\cmd.exe

D:\>cd windows\system32

D:\Windows\System32>ren Utilman.exe Utilman.old

D:\Windows\System32>_
```

We next need to be able to launch the Utilman.exe at login and have access to the command prompt. To do this, we make a new Utilman.exe by making a copy of the command prompt and naming the copy Utilman.exe. (remember, we renamed the original to Utilman.old)

```
Administrator: X:\windows\SYSTEM32\cmd.exe

D:\>cd windows\system32

D:\Windows\System32>ren Utilman.exe Utilman.old

D:\Windows\System32>copy cmd.exe Utilman.exe
1 file(s) copied.

D:\Windows\System32>_
```

You can compare the two files to see if the size of each matches using the dir command.

```
D:\Windows\System32>dir cmd.exe
Volume in drive D has no label.
Volume Serial Number is 62DB-7DEF

Directory of D:\Windows\System32

07/16/2016  05:18 AM                232,960 cmd.exe
               1 File(s)                232,960 bytes
               0 Dir(s) 41,888,395,264 bytes free

D:\Windows\System32>_
```

```
D:\Windows\System32>dir cmd.exe
Volume in drive D has no label.
Volume Serial Number is 62DB-7DEF

Directory of D:\Windows\System32

07/16/2016  05:18 AM                232,960 cmd.exe
               1 File(s)                232,960 bytes
               0 Dir(s)  41,888,395,264 bytes free

D:\Windows\System32>dir Utilman.exe
Volume in drive D has no label.
Volume Serial Number is 62DB-7DEF

Directory of D:\Windows\System32

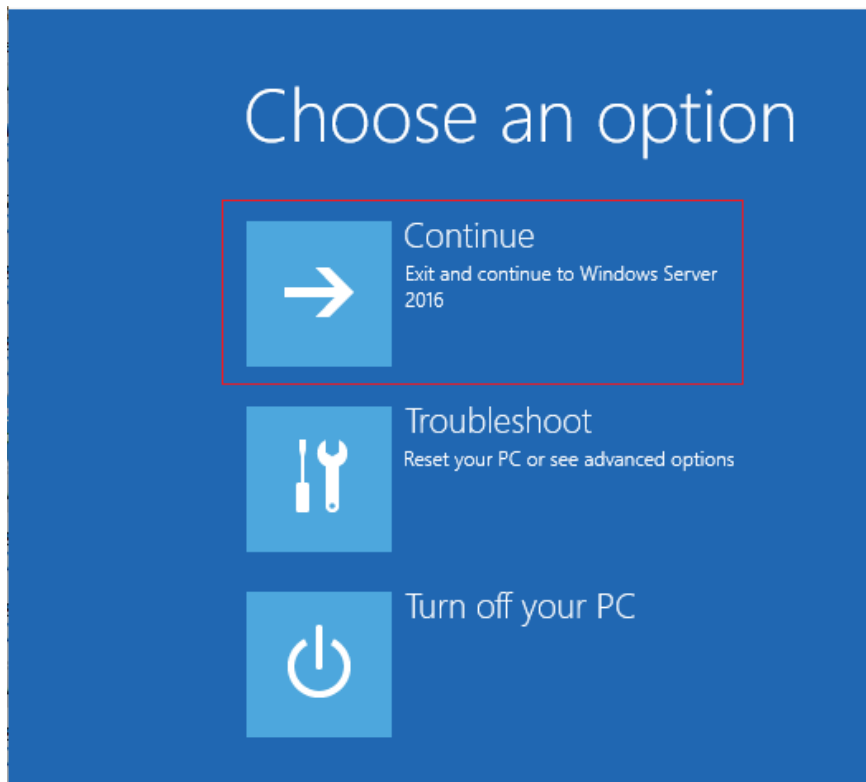
07/16/2016  05:18 AM                232,960 Utilman.exe
               1 File(s)                232,960 bytes
               0 Dir(s)  41,888,395,264 bytes free

D:\Windows\System32>_
```

At the command prompt type, exit to return to the options screen.

```
D:\Windows\System32>exit
```

At the options screen, select continue to continue logging on to Windows.



When the computer restarts, you will want to remove your physical media for your DVD drive, so the machine will start to boot normally.

At the logon screen, press the **Windows+ U** key, the command prompt will pop up. At the command prompt, we can now change our administrator password using the following command

net user administrator Password123!

```
Administrator: C:\Windows\system32\utilman.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Windows\system32>net user administrator Password123!
```

If this were a domain controller we would type:

net user administrator Password123! /domain

```
C:\Windows\system32>net user administrator Password123! /domain
```

Close the command prompt and logon to your server using the new password.



At this point, you can repeat the repair process and restore the original Utilman.exe back using the following commands.

```
cd windows\system32  
ren utilman.exe utilman.exe.123  
copy utilman.exe.old utilman.exe
```