

- Server World

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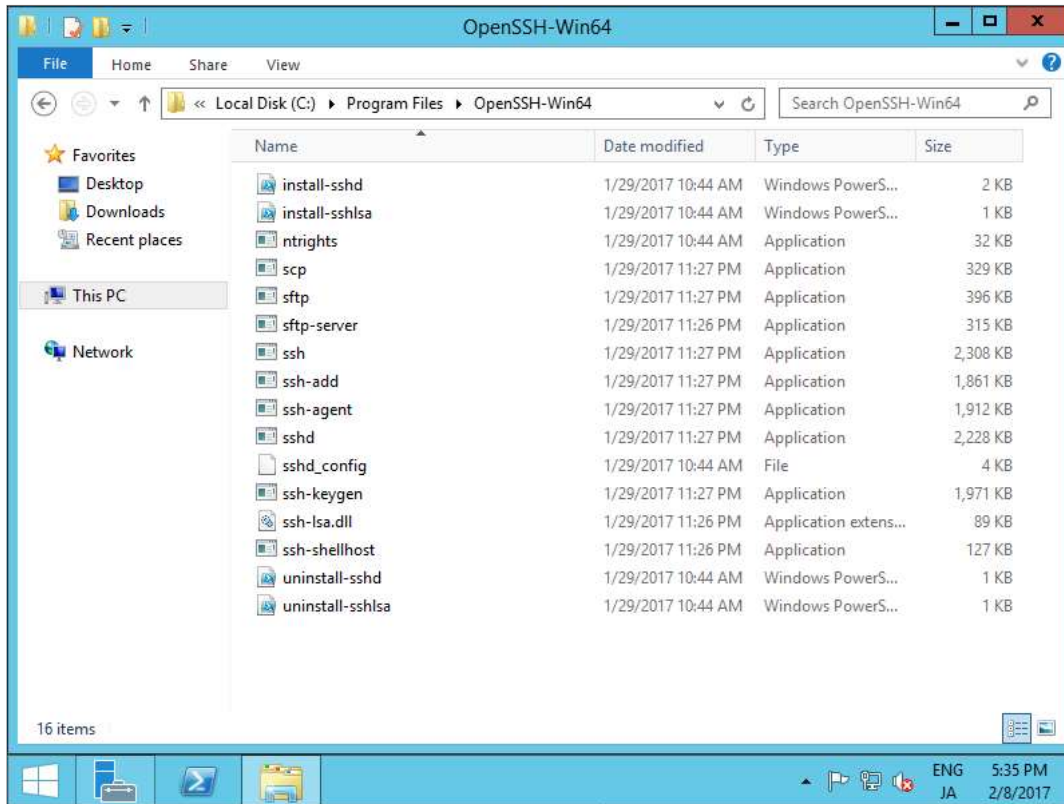
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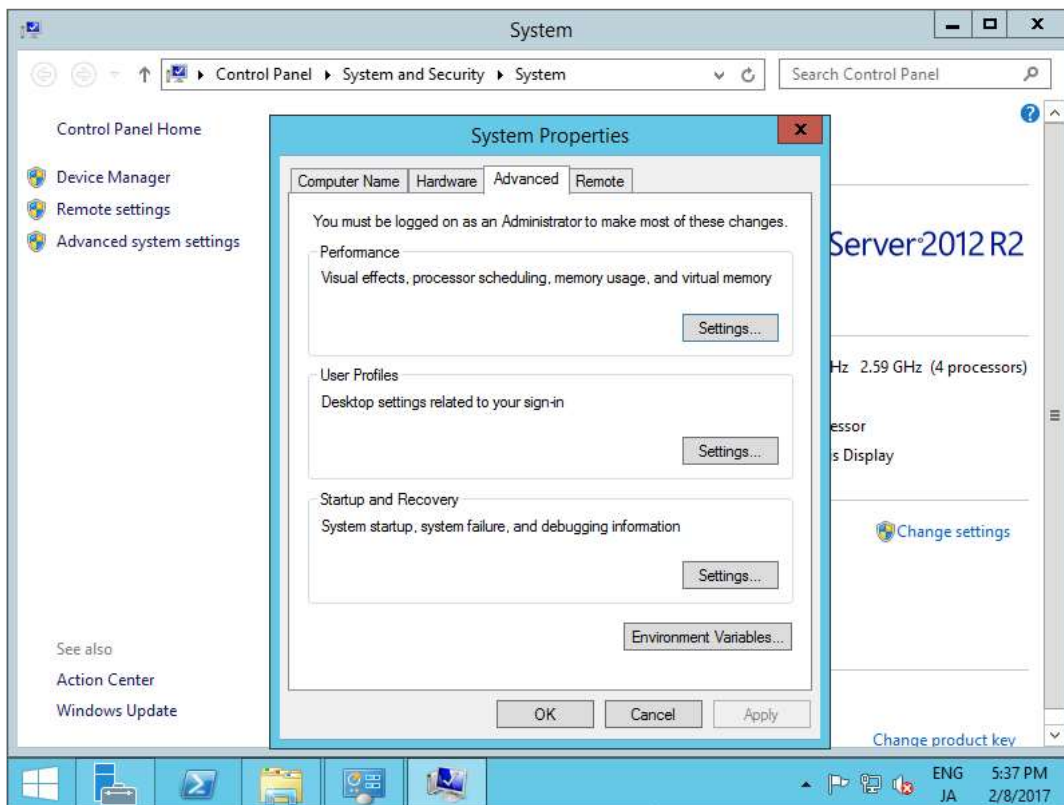
Install OpenSSH Server/Client on Windows Server.

[1] Access to the site below and download OpenSSH. Generally on Windows 2012R2, choose [OpenSSH-Win64.zip] to download.
⇒ <https://github.com/PowerShell/Win32-OpenSSH/releases>

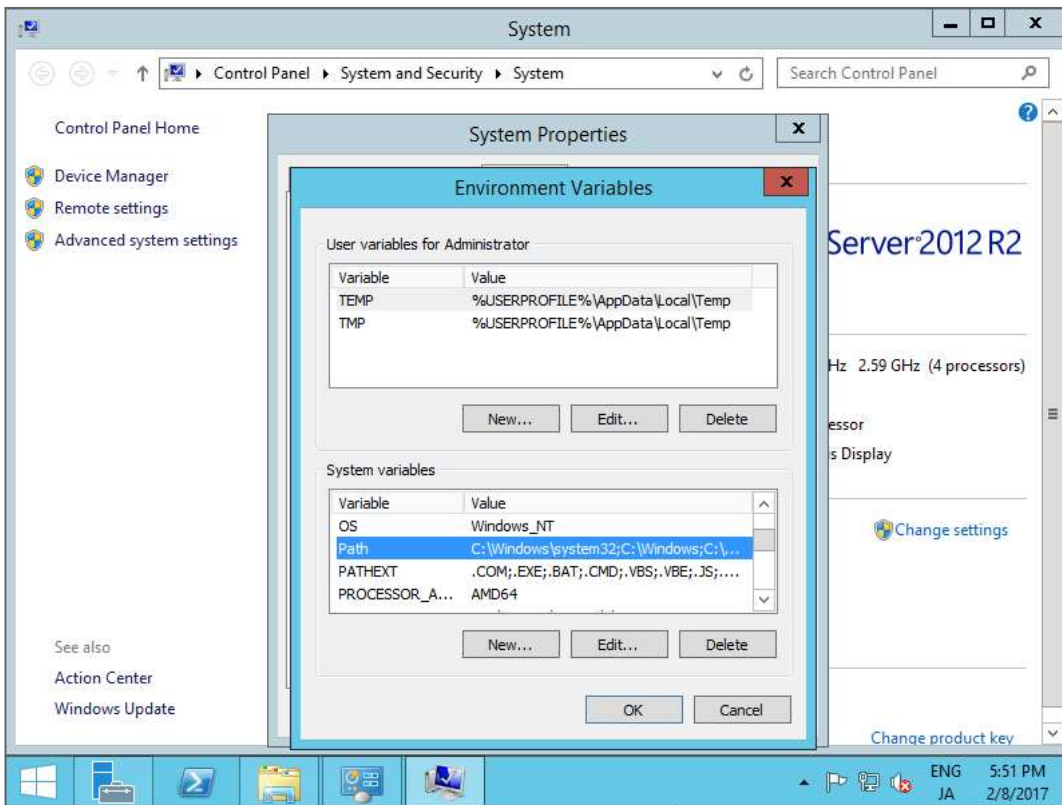
[2] Extract ZIP file and move the extracted folder to any location you like. This example shows to put into [C:\Program Files\] like follows.



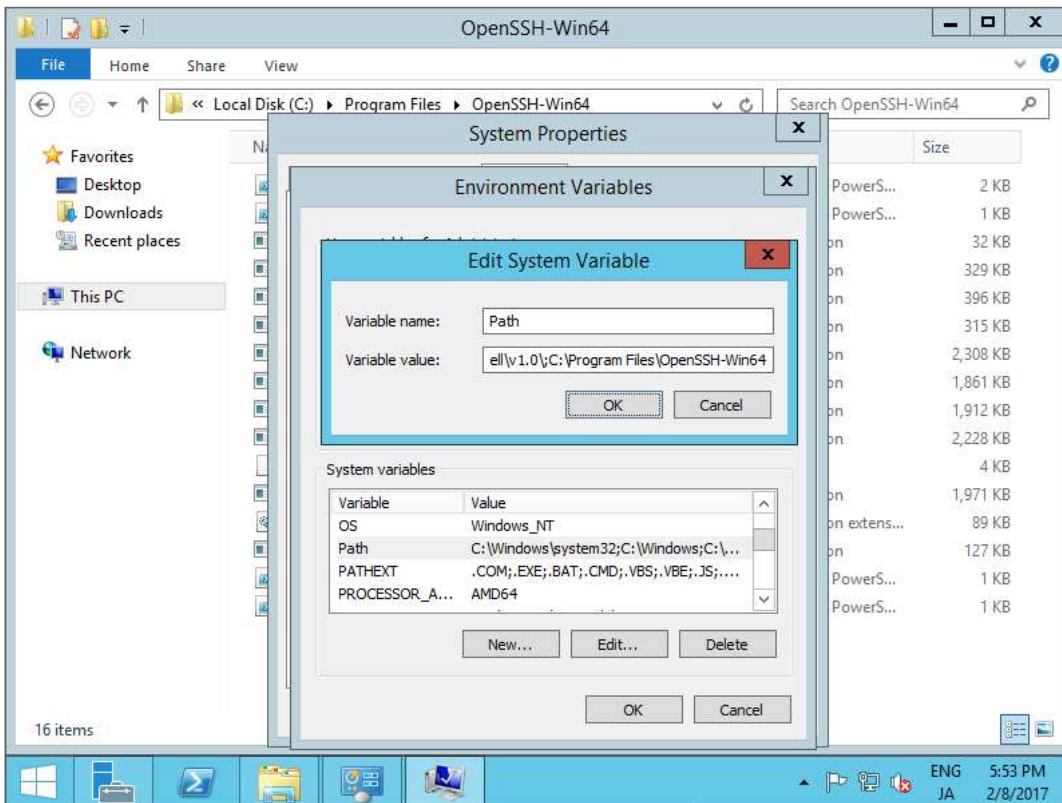
[3] Open [System Properties] and click [Environment Variables] button.



[4] Select [Path] in [System variables] section and click [Edit...] button.



[5] Add OpenSSH folder PATH you located in [Variables value] section. After adding it, Close [System Properties] window.



[6] Run [Powershell] and move to OpenSSH folder you located. Next, run a command '.\install-sshd.ps1' to install sshd service like follows. If successfully message is shown, it's OK to install.

```

Administrator: Windows PowerShell
PS C:\Users\Administrator> cd "C:\Program Files\OpenSSH-Win64"
PS C:\Program Files\OpenSSH-Win64> dir

Directory: C:\Program Files\OpenSSH-Win64

Mode                LastWriteTime         Length Name
----                -
-a---             1/29/2017 10:44 AM           1724 install-sshd.ps1
-a---             1/29/2017 10:44 AM            387 install-sshlsa.ps1
-a---             1/29/2017 10:44 AM          32256 ntrights.exe
-a---             1/29/2017 11:27 PM          336384 scp.exe
-a---             1/29/2017 11:26 PM          322048 sftp-server.exe
-a---             1/29/2017 11:27 PM          404992 sftp.exe
-a---             1/29/2017 11:27 PM          1905664 ssh-add.exe
-a---             1/29/2017 11:27 PM          1957888 ssh-agent.exe
-a---             1/29/2017 11:27 PM          2017792 ssh-keygen.exe
-a---             1/29/2017 11:26 PM           90624 ssh-lsa.dll
-a---             1/29/2017 11:26 PM          129536 ssh-shellhost.exe
-a---             1/29/2017 11:27 PM          2363392 ssh.exe
-a---             1/29/2017 11:27 PM          2280960 sshd.exe
-a---             1/29/2017 10:44 AM           3550 sshd_config
-a---             1/29/2017 10:44 AM           567 uninstall-sshd.ps1
-a---             1/29/2017 10:44 AM           432 uninstall-sshlsa.ps1

PS C:\Program Files\OpenSSH-Win64> .\install-sshd.ps1
[SC] SetServiceObjectSecurity SUCCESS
[SC] ChangeServiceConfig SUCCESS
Granting SeAssignPrimaryTokenPrivilege to NT SERVICE\SSHD ... successful
sshd and ssh-agent services successfully installed
PS C:\Program Files\OpenSSH-Win64>

```

[7] Next, Generate SSH host-key. Run a command '\ssh-keygen.exe -A' like follows.

```

Administrator: Windows PowerShell
PS C:\Users\Administrator> cd "C:\Program Files\OpenSSH-Win64"
PS C:\Program Files\OpenSSH-Win64> dir

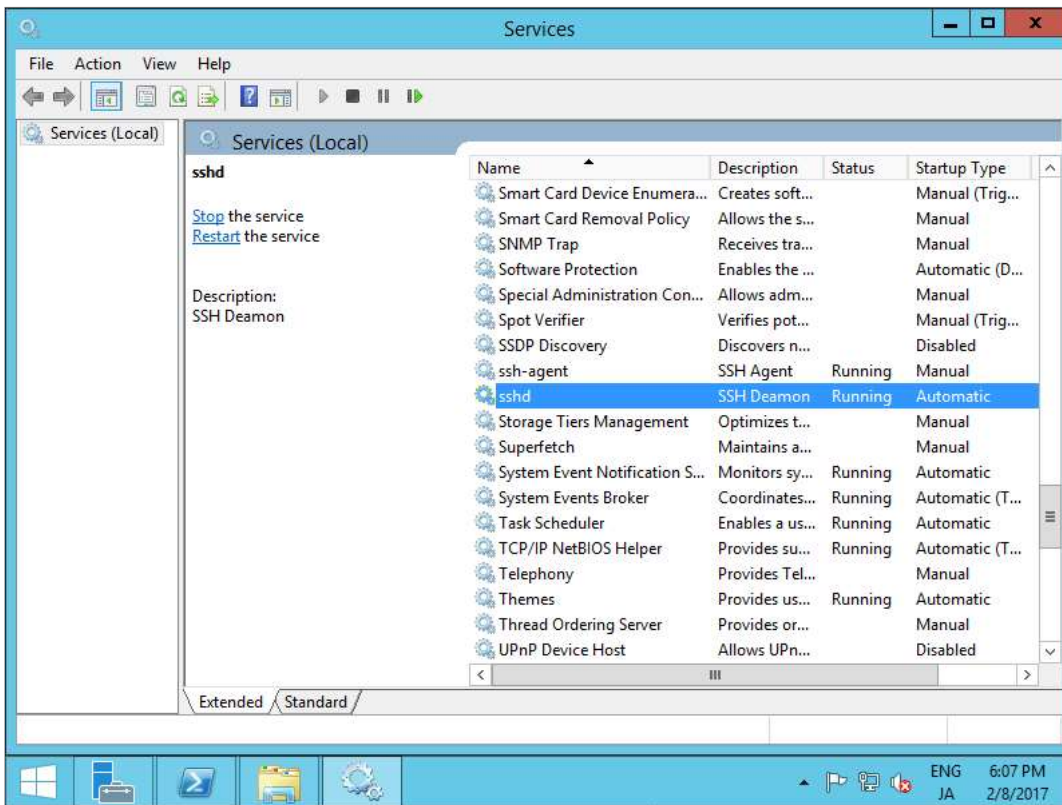
Directory: C:\Program Files\OpenSSH-Win64

Mode                LastWriteTime         Length Name
----                -
-a---             1/29/2017 10:44 AM           1724 install-sshd.ps1
-a---             1/29/2017 10:44 AM            387 install-sshlsa.ps1
-a---             1/29/2017 10:44 AM          32256 ntrights.exe
-a---             1/29/2017 11:27 PM          336384 scp.exe
-a---             1/29/2017 11:26 PM          322048 sftp-server.exe
-a---             1/29/2017 11:27 PM          404992 sftp.exe
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-a---             1/29/2017 11:27 PM          2017792 ssh-keygen.exe
-a---             1/29/2017 11:26 PM           90624 ssh-lsa.dll
-a---             1/29/2017 11:26 PM          129536 ssh-shellhost.exe
-a---             1/29/2017 11:27 PM          2363392 ssh.exe
-a---             1/29/2017 11:27 PM          2280960 sshd.exe
-a---             1/29/2017 10:44 AM           3550 sshd_config
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-a---             1/29/2017 10:44 AM           432 uninstall-sshlsa.ps1

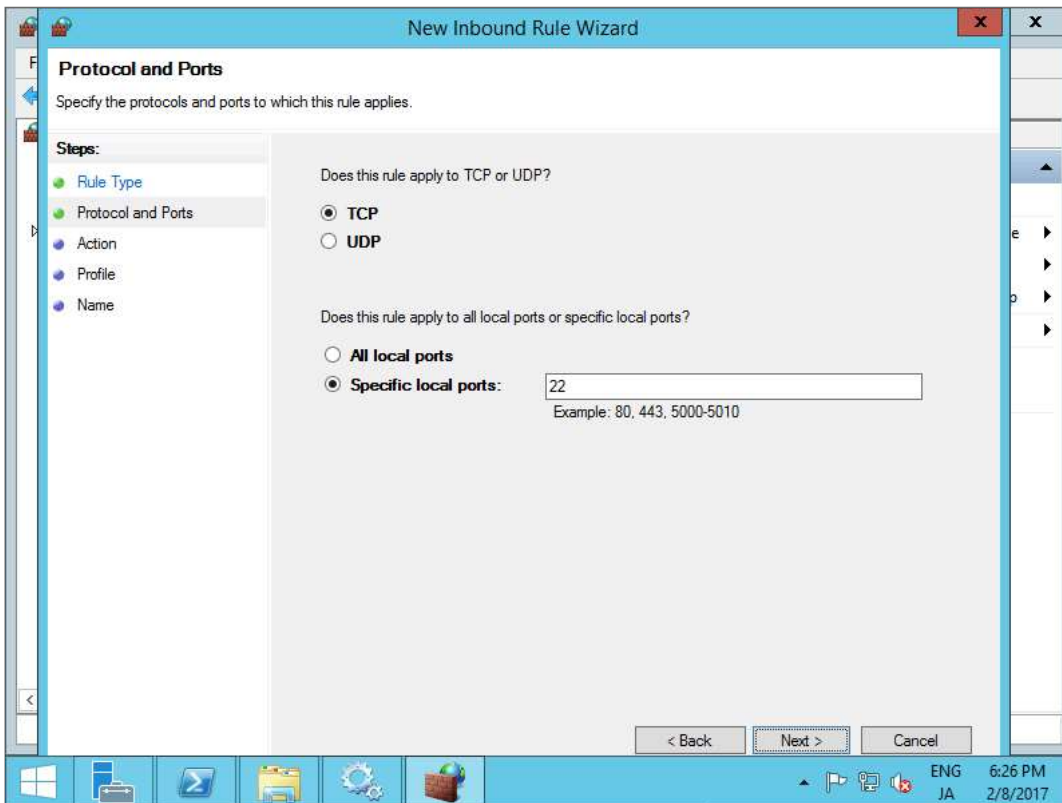
PS C:\Program Files\OpenSSH-Win64> .\install-sshd.ps1
[SC] SetServiceObjectSecurity SUCCESS
[SC] ChangeServiceConfig SUCCESS
Granting SeAssignPrimaryTokenPrivilege to NT SERVICE\SSHD ... successful
sshd and ssh-agent services successfully installed
PS C:\Program Files\OpenSSH-Win64> .\ssh-keygen.exe -A
C:\Program Files\OpenSSH-Win64\ssh-keygen.exe: generating new host keys: RSA DSA ECDSA ED25519
PS C:\Program Files\OpenSSH-Win64>

```

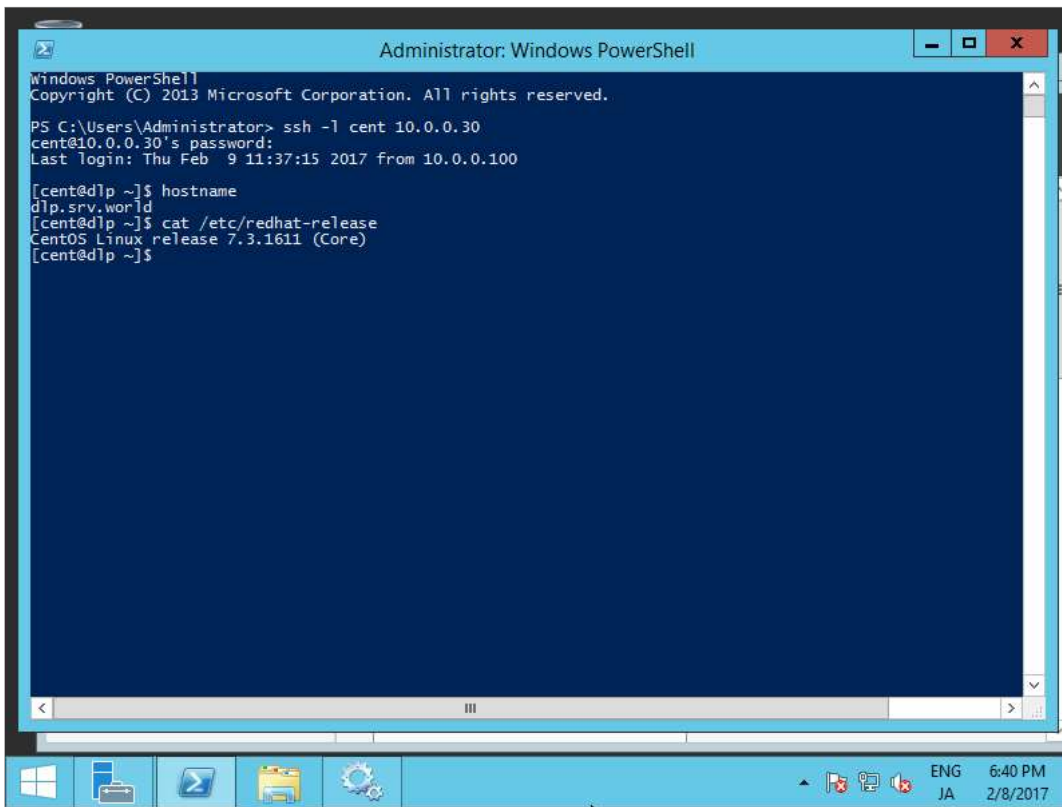
[8] It's OK to install sshd. Next, Open [Services] and start sshd. And also change to [Automatic] for [Startup Type] like follows.



[9] If Windows Firewall is running, add 22/TCP port to allow SSH connection like follows.



[10] For connecting from Windows Server to Linux Server, it's possible to do on Powershell or Command Prompt like follows.



[11] For connecting from Linux Server to Windows Server, it's possible to do like follows.

```

[root@d1p ~]#
ssh Administrator@10.0.0.100

```

```

Administrator@10.0.0.100's password:
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

```

```

Administrator@FD3S C:\Users\Administrator>dir
Volume in drive C has no label.
Volume Serial Number is 0000-0000

```

Directory of C:\Users\Administrator

```

02/08/2017  05:19 PM  <DIR>          .
02/08/2017  05:19 PM  <DIR>          ..
02/08/2017  05:19 PM  <DIR>          Contacts
02/08/2017  05:33 PM  <DIR>          Desktop
02/08/2017  05:19 PM  <DIR>          Documents
02/08/2017  05:19 PM  <DIR>          Downloads
02/08/2017  05:19 PM  <DIR>          Favorites
02/08/2017  05:19 PM  <DIR>          Links
02/08/2017  05:19 PM  <DIR>          Music
02/08/2017  05:19 PM  <DIR>          Pictures
02/08/2017  05:19 PM  <DIR>          Saved Games
02/08/2017  05:19 PM  <DIR>          Searches
02/08/2017  05:19 PM  <DIR>          Videos
                0 File(s)                0 bytes
                13 Dir(s) 75,735,973,888 bytes free

```

M a t c h e d C o n t e n t

