*08:39:56 PDT*

**Question:** Will this course be available to download after the live presentation?
**Answer:** Yes, as always the presentation will be shared in the FAQ (maybe you need to refresh your browser once that's been done)

---

*08:41:11 PDT*

**Question:** Ready for session!
**Answer:** Ronny, welcome and thanks for joining!

---

*08:41:19 PDT*

**Question:** Hi Everyone! Thank you TEACHERS , MICROSOFT , MVA and Event Support Team for this lesson!
**Answer:** Great to see you POPA DAN!

---

*08:44:07 PDT*

**Question:** Hello all
**Answer:** Hi Vaughn!

---

*08:45:28 PDT*

**Question:** The downloadable slide deck mentions the wrong (old?) MVA voucher "PowerJump1" instead of the correct one ('PowerShell') mentioned in the faq and break slides.
**Answer:** Use "PowerShell" that worked for me.

---

*08:45:52 PDT*

**Question:** Good Morning Matt Calder! How is your summer coming along?

**Answer:** Spending a lot of time in a dark studio so far 😊

---

*08:46:06 PDT*

**Question:** Good Morning from Dallas!
**Answer:** Thanks for joining RottinRob!

---

*08:46:07 PDT*

**Question:** I want FREE books on PowerShell.
**Answer:** There a lot of free resources on PowerShell. Check this out: http://www.hofferle.com/list-of-free-powershell-ebooks/

---

*08:46:35 PDT*

**Question:** If I got points for yesterday, does that mean that I am blocked from getting a voucher today?
**Answer:** No, you just need to use the new voucher code "PowerShell"

---

*08:46:45 PDT*

**Question:** good evening from Germany. Nice to meet all that folks again.
**Answer:** Thanks for tuning in!

---

*08:47:11 PDT*

**Question:** disgraceful I couldn't use my RT tablet to watch this- Someone please kill Silverlight!!!!!!!!
**Answer:** Sorry about the hassle. We will have a new player for our live events later this summer. Stay tuned!

---

*08:48:35 PDT*

**Question:** Hi All, what are the prerequisites for this course other than PowerShell cmd? I'm running Win7x64 and .NET4.5
**Answer:** It might help If you have Experience working as a Windows IT pro/Admin/Help Desk. The presenters will cover that also in in the first module in the beginning.

---

*08:50:39 PDT*

**Question:** Go to powershell.org for e-books
**Answer:** sharing

---

*08:51:09 PDT*

**Question:** Guido, that is a great list! If anyone knows of a good free book on powershell AND sharepoint, I would love to hear about it. I have ordered a paper book, but would love to find a free one like one of the ones on the link just chatted
**Answer:** Have you seen this: http://www.amazon.com/Automating-SharePoint-2010-Windows-PowerShell/dp/0470939206. You can also search on Bing with following string: free ebook powershell and sharepoint, and then you will find lots of books.

---

*08:51:17 PDT*

**Question:** I am having the same issues as yesterday. I get to the site, but nothing happens when I press "Redeem".
**Answer:** Use the voucher code from the FAQ "PowerShell" We put the wrong code in the slide.

---

*08:51:41 PDT*

**Question:** Hello everyone from Venezuela!
**Answer:** Hi Eduardo!

---

*08:52:54 PDT*

**Question:** Good morning
**Answer:** Saurin, welcome and thanks for joining!

---

*08:53:12 PDT*

**Question:** Spending a lot of time in a dark studio so far
What I thought for sure that you would be sailing and enjoying the surf and sun on the weekends!
**Answer:** Haven't even had a chance to get into the mountains yet but soon!

---

*08:53:15 PDT*

**Question:** Good Time Everyone -- Kanta Prasad from Pune, India
**Answer:** Kanta, welcome and thanks for joining!

---

*08:53:34 PDT*

**Question:** hi from everett
**Answer:** Hey Bangdien!

---

*08:53:59 PDT*

**Question:** "Zdoroven'ki buly!" (Hello!) from Kyiv, Ukraine!
**Answer:** Hello!

---

*08:54:22 PDT*

**Question:** The scripting guy's blog is a good source too, I try to keep up with him - http://blogs.technet.com/b/heyscriptingguy/
**Answer:** Yes,that is a great resource!

---

*08:55:03 PDT*

**Question:** Hello from Malmö, Sweden!
**Answer:** Thanks for joining!

---

*08:55:26 PDT*

**Question:** Good evening from Germany
**Answer:** Great to see you today!

---

*08:55:51 PDT*

**Question:** this reminds me of the old AOL days of chat rooms
**Answer:** Not the CompuServe newsgroups?

---

*08:55:58 PDT*

**Question:** Hi everyone, Can anyone suggest any resources for using PowerShell with SCCM 2012 ??
**Answer:** Blogs and the two SCCM 2012 books... to my knowledge there isn't a PoSH + ConfigMgr book out there... yet...

---

*08:56:24 PDT*

**Question:** Hi Matt & Guido.. Hello Everyone.. Chandra here from Hyderabad, India..
**Answer:** Great to see you Chandra!

---

*08:56:30 PDT*

**Question:** Luis here from DC. Loving this hold music
**Answer:** 😊

---

*08:56:46 PDT*

**Question:** Good afternoon from Porto, Portugal.
**Answer:** Hi Pedro! Great to see you!

---

*08:56:56 PDT*

**Question:**  Hi everyone, Can anyone suggest any resources for using PowerShell with SCCM 2012 ??
> *Quoted answer:* Blogs and the two SCCM 2012 books... to my knowledge there isn't a PoSH + ConfigMgr book out there... yet...
**Answer:** It's covered in SCCM 2012 Unleashed, a few chapters go into it.

---

*08:57:34 PDT*

**Question:** Hi Everyone, This is Prabhash from Norway
**Answer:** Hi there! Thank you for joining us today!

---

*08:57:42 PDT*

**Question:** Hello, Tony from US
**Answer:** Hi there! Thank you for joining us today!

---

*08:57:46 PDT*

**Question:** Hello from Chicago
**Answer:** Hi there! Thank you for joining us today!

---

*08:58:06 PDT*

**Question:** Hello form London!
**Answer:** Hi there! Thank you for joining us today!

---

*08:58:11 PDT*

**Question:** Hello all
**Answer:** Hi there! Thank you for joining us today!

---

*08:58:17 PDT*

**Question:** Hi Everyone!
**Answer:** Hi there! Thank you for joining us today!

---

*08:58:27 PDT*

**Question:** Hello from sunny(at the moment) Ireland
**Answer:** Hi there! Thank you for joining us today!

---

*08:58:49 PDT*

**Question:** Ed Wilson`s Microsoft Press Windows PowerShell 3.0, Step by Step is a great book to start from.
**Answer:** Agree, thanks for sharing!

---

*08:58:59 PDT*

**Question:** Hello Everyone
**Answer:** Hi there! Thank you for joining us today!

---

*08:59:06 PDT*

**Question:** Howdy Folks! From Fort Worth, TX
**Answer:** Hi there! Thank you for joining us today!

---

*08:59:13 PDT*

**Question:** Hello Nagesh from India/Bangalore
**Answer:** Hi there! Thank you for joining us today!

---

*08:59:17 PDT*

**Question:** Is there such thing as a powershell certification? Bonus if it contributes to MCSE
**Answer:** No, there is no official PowerShell certification.

---

*08:59:42 PDT*

**Question:** Will this session be recorded ?
**Answer:** Yes, after 2 weeks or it will be available on MVA. We will send an email to you when it's there.

---

*08:59:46 PDT*

**Question:** hey yall is this being recorded for future referencing?
**Answer:** We will have the recordings available next week.

---

*09:00:02 PDT*

**Question:** is there a command to check what version of powershell I am running?
**Answer:** Type $PSVersionTable

---

*09:00:16 PDT*

**Question:** Hi Jason from AZPOSH
**Answer:** Hi there! Thank you for joining us today!

---

*09:00:20 PDT*

**Question:** Good evening everyone from sunny England
**Answer:** Hi there! Thank you for joining us today!

---

*09:00:27 PDT*

**Question:** Hello from Chicago
**Answer:** Hi there! Thank you for joining us today!

---

*09:00:35 PDT*

**Question:** This is my very first MVA webinar. So cool to see people from all over the world - hailing from Middletown, OH, USA
**Answer:** We usually see people from about 70 or 80 different countries!

---

*09:01:20 PDT*

**Question:** Is there a specific version we should check for for this presentation?
**Answer:** Version 3, just execute $PSVersionTable

---

*09:01:59 PDT*

**Question:** Aleksandar, didn't Don Jones create an unofficial certification test?
**Answer:** June, I think the question was about the official. 😅

---

*09:02:14 PDT*

**Question:** Will This event be availble after the session?
**Answer:** Yes we will have the recorded sessions available on MVA next week.

---

*09:03:00 PDT*

**Question:** greeting society It is my honor today to hang out with you
**Answer:** It's our honor to be with you 😊

---

*09:03:11 PDT*

**Question:** I am running W7 x64 and it says I am running version 2.0
**Answer:** You can download it here http://www.microsoft.com/en-us/download/details.aspx?id=34595, it requires a reboot though

---

*09:07:32 PDT*

**Question:** I'm brand new to Powershell. What version of Powershell comes with Windows 8?
**Answer:** v3

---

*09:08:07 PDT*

**Question:** Do u access Powershell from a plain command window?
**Answer:** No, there is a special PowerShell command line window. The presenters will explain that in a moment 😊

---

*09:09:07 PDT*

**Question:** Uou can install powershell 3.0 for windows 7 here:http://technet.microsoft.com/en-us/library/hh847837.aspx#BKMK_InstallingOnWindows7andWindowsServer2008R2
**Answer:** Sharing

---

*09:10:36 PDT*

**Question:** What are the Major Diff in V3 from V2 ?
**Answer:** More commands and see here for a overview of the new features in PowerShell v3:
http://social.technet.microsoft.com/wiki/contents/articles/4787.powershell-v3-new-features.aspx

---

*09:10:57 PDT*

**Question:** You can do $host or get-host from powershell. It will tell you what version you have
**Answer:** $Host will tell you about the version of the host as where $PSVersionTable will tell you the versions of the host, clr, wsman and much more

---

*09:11:44 PDT*

**Question:** Where do I get a computer like the one you guys have?
**Answer:** It's a Planar Helium PCT2785

---

*09:12:40 PDT*

**Question:** and which computers are u using what is that gaint screens?
**Answer:** Planar Helium PCT2785

---

*09:12:59 PDT*

**Question:** Did anybody catch the voucher code? I missed it.
**Answer:** It is "PowerShell"

---

*09:13:29 PDT*

**Question:** should we have v3 installed for today's session?
**Answer:** If you have v3 installed you'll be able to do anything they'll show you... with v2 you'll be do some things but not all

---

*09:14:38 PDT*

**Question:** Is powershell v4 now out?
**Answer:** PowerShell v4 is in beta, v3 is still the current rtm version

---

*09:14:57 PDT*

**Question:** How can I install the new version of Power shell by a command line through powershell
**Answer:** Lela, you need install a Windows Update to get the latest version of PowerShell, or upgrade to Windows 7, in Windows 8 v3 is integrated in the OS.

---

*09:16:08 PDT*

**Question:** can we get the link for the Windows Management Framework 3.0 please?
**Answer:** See here: http://www.microsoft.com/en-us/download/details.aspx?id=34595

---

*09:16:51 PDT*

**Question:** Can we download PowerShell v4 beta?
**Answer:** You need install or upgrade to the Windows 8.1 Preview then.

---

*09:17:04 PDT*

**Question:** Will there be any changes to Powershell with Windows 8.1?
**Answer:** Yes, Windows 8.1 comes with PowerShell 4.0 that adds a major new feature called Desired State Configuration.

---

*09:17:07 PDT*

**Question:** is there going to be a recording of this session so that we can watch it later and remember what is going to be share today?
**Answer:** Yes there is

---

*09:17:25 PDT*

**Question:** I understand that PowerShell scripts can be written using a plain text editor but is there an IDE available with IntelliSence-like technology?
**Answer:** PowerShell ISE is free and built-in into Windows.... there are paid solutions from lots of vendors

---

*09:18:30 PDT*

**Question:** @Guido van Brakel , Windows 8.1 is not necessary for PowerShell 4.0 : http://www.microsoft.com/en-us/download/details.aspx?id=39347
**Answer:** Thanks Bjorn. Sharing this!

---

*09:18:43 PDT*

**Question:** how can you tell which version of power shell you are running?
**Answer:** $PSVersionTable

---

*09:18:44 PDT*

**Question:** Is this pre-recorded?
**Answer:** It is live

---

*09:19:34 PDT*

**Question:** Will it be available to watch later?
**Answer:** Yes it will

---

*09:20:03 PDT*

**Question:** How can you elevate a PowerShell window after you have already launched it?
**Answer:** shut it down and start again.

---

*09:21:06 PDT*

**Question:** Which book is recommended by you to best learn PS from scratch?
Microsoft Windows PowerShell Step-By-Step, http://www.microsoft.com/learning/en-us/book.aspx?ID=10329&locale=en-us

---

*09:22:02 PDT*

**Question:** how to run powershell script with user crdentials?
**Answer:** Take a look at get-credential: http://technet.microsoft.com/en-us/library/hh849815.aspx

---

*09:22:39 PDT*

**Question:** :/ Really? There is no inline runas or something?
**Answer:** Take a look at get-credential: http://technet.microsoft.com/en-us/library/hh849815.aspx

---

*09:22:45 PDT*

**Question:** Is PS 4.0 Preview backwards compatible with PS 3.0 (runs all same commands)?
**Answer:** It should be, read the release notes for breaking chnages

---

*09:23:45 PDT*

**Question:** I love that with PowerShell 4.0 you can use #Requires to check for admnistrative permissions :
http://technet.microsoft.com/en-us/library/hh857339.aspx#BKMK_wps4
**Answer:** Sharing!

---

*09:24:19 PDT*

**Question:** Can you set PowerShell to log all output to a file?
**Answer:** Yeah, with Start-Transscript: http://technet.microsoft.com/en-us/library/hh849687.aspx

---

*09:24:37 PDT*

**Question:** Consolas forever!
**Answer:** YES, I prefer Consolas as well!! 😊

---

*09:24:42 PDT*

**Question:** Can you set PowerShell to log all output to a file?
**Answer:** Yes, you can use Start-Transcript for that

---

*09:24:48 PDT*

**Question:** Start-Process has a parameter named -RunAs
**Answer:** Sharing, thanks for your comment!

---

*09:25:46 PDT*

**Question:** ... And Stop-Transcript to turn it off. It's a great set of cmdlets!
**Answer:** Thanks! Sharing!

---

*09:26:40 PDT*

**Question:** Why is the default PowerShell color scheme DOS-era WordPerfect?
**Answer:** Classic beauty? 😊 Honestly, I always change the default color scheme on my console windows.

---

*09:28:29 PDT*

**Question:** I have a series of ps1 scripts I need to run in succession. Each script uses the same source CSV for data. How can I automate all of those through a batchfile so I can throw "pauses" in?
**Answer:** You can run powershell.exe -command batchfile.bat.

---

*09:29:13 PDT*

**Question:** Do we get recorded session?
**Answer:** Yes we will have the recordings available next week on MVA
http://www.microsoftvirtualacademy.com/LiveEvents.aspx

---

*09:30:24 PDT*

**Question:** windows key +r and type powershell is faster right? will that continue to work in windows 8?
**Answer:** Yes Ed, you can use Windows Key + R, type PowerShell and then hit enter to launch PowerShell on Windows 8.

---

*09:31:39 PDT*

**Question:** OK, I know some here are too young, but can everyone say MS DOS?
**Answer:** Yes I used MSDOS - a lot - but PowerShell is a much more capable scripting language with a much richer runtime library i.e. .NET.

---

*09:32:24 PDT*

**Question:** I have been trying to run a PS script as a scheduled task in Windows Server 2008 R2. How do I do this needing elevated privileges?
**Answer:** There are several options, in the script you can leverage credentials. Or you can set the task itself to run with Run with highest privileges: http://technet.microsoft.com/en-us/library/cc722152.aspx

---

*09:32:36 PDT*

**Question:** Is clear-host different than cls in any way?
**Answer:** in PowerShell, cls is an alias for Clear-Host

---

*09:33:49 PDT*

**Question:** can you pipe results from powershell to a txt file?
**Answer:** Yes, you can pipe to Out-File filename.txt

---

*09:33:52 PDT*

**Question:** what cmdlet he used to get the alias list?
**Answer:** get-alias

---

*09:34:02 PDT*

**Question:** can you pipe results from powershell to a txt file?
**Answer:** Yes Darren, you can pipe results from PowerShell to a file by redirecting the output (e.g. Get-Service > C:\services.txt).

---

*09:34:43 PDT*

**Question:** If I run the external command "BCDEdit" from PowerShell with parameters that need curly braces {} it doesn't work. What does PS do with curly braces if you run an external command and can you override that behaviour?
**Answer:** There are a number of "special characters" that PowerShell interprets specially like ; $ @ {} . In Powershell 3 do this bcdedit --% rest of parameters - and PowerShell won't interpret special characters.

---

*09:34:47 PDT*

**Question:** 98 percent of the time I use PowerShell. The only two percetn is when I open DOS to work with Visual Studio stuff.

**Answer:** We should ask the visual studio team to create visual studio module for PowerShell 😊.

---

*09:35:02 PDT*

**Question:** I used Edlin and it petrified me

**Answer:** Me too!! 😊

---

*09:35:07 PDT*

**Question:** I am going to remember gal forever now.

**Answer:** gal and sal are your aliasing friends 😊

---

*09:35:42 PDT*

**Question:** Is there a way to search through your command history in a given powershell session? Ie like you can in *nix/bash with ctrl+r ?

**Answer:** Sure, use F7

---

*09:35:45 PDT*

**Question:** @Jeff Wouters: I love the ISE. Thank you for letting me know of it.

**Answer:** Sharing

---

*09:36:24 PDT*

**Question:** Is there a way to search through your command history in a given powershell session? Ie like you can in *nix/bash with ctrl+r ?

**Answer:** You can use F7.

---

*09:36:57 PDT*

**Question:** Is there anyway we can print get-alias results ?

**Answer:** Sure, Get-Alias | Out-Printer

---

*09:37:06 PDT*

**Question:** When this will be available in MVA?

**Answer:** It takes us about one week to post the recordings

---

*09:37:37 PDT*

**Question:** does ping, etc work in V2 as well?

**Answer:** Yes this functionality exists in prior versions of PowerShell also.

---

*09:38:08 PDT*

**Question:** does ping, etc work in V2 as well?
**Answer:** Most console exes work just fine in PowerShell including standard tools like ping, nslookup, netsh, net, etc.

*09:38:17 PDT*

**Question:** can we now pipe the output of commands , or imput ?
**Answer:** You can send output to a file using redirection (e.g. Get-Service > C:\services.txt). You can pull input into PowerShell from a file using Get-Content or Import-Csv (depends on your file type/needs), and then you can pass that content or CSV data to other commands in a pipeline.

*09:39:15 PDT*

**Question:** Whats is the shortcut to zoom
**Answer:** I'm usng the SYsInternals ZOOMIT tool

*09:40:40 PDT*

**Question:** for some reason I can not type gal g* (or any other command). I have to type "powershell gal g*). What do I have to do to get it working without typing powershell to start?
**Answer:** Michael, it sounds like you're still in cmd.exe. Open PowerShell directly or execute powershell.exe from cmd.exe, and then you should be able to execute PowerShell commands.

*09:40:41 PDT*

**Question:** how can I see what version of powershell is on my laptop installed?
**Answer:** $PSVersionTable

*09:42:16 PDT*

**Question:** This is beautiful. Why is it not possible to extend the use of ls just like in Linux where you have ls -altr
**Answer:** It is possible to do that. You can override some commands, write functions, and do all sorts of things like that in PowerShell. It just hasn't been done yet.

*09:42:39 PDT*

**Question:** Will the August 1st PowerShell jumpstart be the same as this one, or will it be different? I noticed the description seems the same.
**Answer:** The August 1 session will cover more advanced material with the goal of enabling you to make tools that others can use.

*09:43:10 PDT*

**Question:** What is the difference between the standard PowerShell interface and the ISE version?
**Answer:** The embedded host in ISE is the same as the native console. In ISE you get more value by having an integrated editor and debugger though. You can debug in the native console, but it is easier in ISE.

*09:43:42 PDT*

**Question:** Will the chat history also be available?
**Answer:** Yes. We also email a link to a copy of the transcript

*09:43:44 PDT*

**Question:** Hello guys, is it possible to get a list of all IIS applications, as well as to create and configure it via PS? Are there any good resources for this case?
**Answer:** Yes, this is covered in the Learn IIS in a Month of Lunches book by Jason Helmick

*09:44:13 PDT*

**Question:** I have servers that are not internet facing, how can I update the help files on them when the modules are not installed on the computer that is internet facing?
**Answer:** Take a look at Save-Help 😊

*09:44:41 PDT*

**Question:** Enjoying the commentary and jokes and ease of use so far.
**Answer:** 😊

*09:45:31 PDT*

**Question:** where is the link to register for the follow on training?
**Answer:** You can register for day 2 here http://www.microsoftvirtualacademy.com/liveevents/Adv-PowerShell-Jump-Start

*09:45:39 PDT*

**Question:** How do I get PowerShell version via PowerShell?
**Answer:** Hi Kelvin, just invoke this command: $PSVersionTable. That will show you the current version.

*09:46:12 PDT*

**Question:** Is a Windows Update on my Windows 7 going to get me Powershell 3.0?
**Answer:** nope - you have to install Windows Mnagement Framework v 3.0 manually.

*09:47:09 PDT*

**Question:** @Matt Calder take a look at Don Jones' sessions from Teched for some great powershell videos...
**Answer:** Sharing

*09:48:36 PDT*

**Question:** Why I can't reply publicly??
**Answer:** We use a moderated Q&A to keep it focused and on topic. I think we need to have a room for many to many chat but we don't have it on our road map right now. You can use the hash tag #MVAJumpStart on Twitter and your message will appear in the Twitter tab.

*09:49:22 PDT*

**Question:** maybe a silly question but why do we still have a .ps1 extension altough we are on version 3 of powershell and the install dir is /V1/ also ?
**Answer:** They stuck with .v1 for the extension and the folder because v3 is fully backwards compatible with v1.

*09:49:55 PDT*

**Question:** does Windows 8 comes with latest Version of PowerShell or do I need to install the latest ?
**Answer:** comes with v3

---

*09:50:20 PDT*

**Question:** When was PS introduced?
**Answer:** PowerShell 1.0 was released in November 2006 I believe.

---

*09:51:01 PDT*

**Note to all:** Update-Help requires PowerShell v3 or v4 !

---

*09:51:23 PDT*

**Question:** can PS be used to expose .NET properties?
**Answer:** Hi Michael. You can view and use .NET properties in PowerShell, yes. For example, Get-Service | Get-Member # This shows all properties and methods on the service objects you get from service objects.

---

*09:51:46 PDT*

**Question:** Can you send a link for Don Jones' sessions from Teched?
**Answer:** go tot channel 9 events section and search for speaker Don Jones in the appropriate year (2013, 2012) for his sessions. http://channel9.msdn.com/events/teched

---

*09:52:57 PDT*

**Question:** I'm running a powershell script in a test environment for Configman2012...I guess it has some VB integrated and it does what I want it to do, it just throws some errors that say "The term WriteToLog is not recognized as the name of a cmdlet, function,..." any ideas on what to replace "WriteToLog" with in the script?
**Answer:** That's hard to say without seeing the script. If it's just to log data to a file, you could use Out-File -Append. If it's more complicated than that, I recommend asking the question on one of the PowerShell forums (such as those on PowerShell.org).

---

*09:53:24 PDT*

**Question:** @RicksterCDN: hi and what great 2 Days with WIndowsServer
**Answer:** glad you liked it!

---

*09:53:50 PDT*

**Question:** update-help is "not recognized as the name of a cmdlet
**Answer:** Make sure you are in version 3 ($PSVersionTable). Update-Help is version 3 only.

---

*09:54:06 PDT*

**Question:** Does update-help not work on powershell v2?
**Answer:** Yes, it was introduced in PowerShell v3 😊

---

*09:54:24 PDT*

**Question:** I get red errors when trying to update help
**Answer:** Hi Rob. You need to be in an elevated console when you invoke Update-Help. Otherwise you will get errors.

---

*09:54:44 PDT*

**Question:** update-help fails on v2?
**Answer:** Update-Help does not exist in PowerShell v2. This was added with v3.

---

*09:55:05 PDT*

**Question:** Is the update-help cmdlet supported on PS 2.0?
**Answer:** No, Update-Help is v3 or later Jonathan.

---

*09:56:13 PDT*

**Question:** update-help-force doesnt work here
**Answer:** You need a space between update-help and -force. e.g. Update-Help -Force

---

*09:57:43 PDT*

**Question:** Update-Help -Force results in "The given key was not present in the dictionary" for me. What am I doing wrong? I'm running ISE as Admin.
**Answer:** Hi Vishal. Try running with Update-Help -Force -Verbose, sometimes that can provide more details for troubleshooting.

---

*09:58:53 PDT*

**Question:** How we can extend various functionality of SCCM by power shell
**Answer:** SCCM 2012 SP1 has a PowerShell module:
http://blogs.technet.com/b/neilp/archive/2013/01/07/running-2012-configuration-manager-sp1-powershell-cmdlets-from-an-orchestrator-run-net-script-activity.aspx

---

*10:00:10 PDT*

**Question:** where is it updating from? whose server is updating these Help? what is Force?
**Answer:** Update-Help pulls help content from wherever modules identify the content is available. Modules can be configured with a HelpUri property which identifies the location to look for new help files. The local system pulls the content down from those servers. The -Force parameter is used to force the Update-Help command to run even if you already ran it once that day (by default it only runs once per day and does nothing if you already ran it that day -- this allows people to put it in their profile scripts without worrying about it running multiple times).

---

*10:00:18 PDT*

**Question:** Yes SCCM finally has PowerShell support but there is a gotcha need to load that module in x86 powershell host
**Answer:** They are fixing that - BECAUSE of customer feedback!

---

*10:01:26 PDT*

**Question:** anyone know a good refence website to use instead of help?
**Answer:** TechNet ScriptCenter 😊 : http://technet.microsoft.com/en-us/scriptcenter/bb410849.aspx

---

*10:01:29 PDT*

**Question:** I received an error message when trying to update help. Can you help me
**Answer:** It's hard to help here with specific errors. Make sure you are running in an elevated console and make sure you are using PowerShell 3 (Update-Help does not work in v2).

---

*10:01:47 PDT*

**Question:** For those running external .exe programs with complex parameters, you might want/need to use --% as described here: http://social.technet.microsoft.com/wiki/contents/articles/7703.powershell-running-executables.aspx#Use_the_stop-parsing_symbol
**Answer:** Thanks sharing!

---

*10:02:07 PDT*

**Question:** how do we determine what version of powershell we are running from the powershell window?
**Answer:** Run $PSVersionTable in the PowerShell window.

---

*10:02:40 PDT*

**Question:** Comment: Don't Memorize! I hope that MS Certifications will get that message. I find that the exam questions ask for verbatim regurgitation of the Learning Guide, not for understanding of what's going on-"How to figure things out"
**Answer:** We hear you.

---

*10:02:50 PDT*

**Question:** the term update-help is not recognized as the name of the cmdlet
**Answer:** It sounds like you are not in PowerShell 3. Update-Help is only in PowerShell 3.0 and later.

---

*10:03:08 PDT*

**Question:** Hmm, Get-RicksTilleyHat doesn't work
**Answer:** It requires root access.

---

*10:04:11 PDT*

**Question:** Kirk, in $PSVersionTable is the "PSVersion 3.0" in that list what I want to see to know its v3?

**Answer:** Yes, that's what you want to see. 😊

---

*10:04:33 PDT*

**Question:** Can we run this in production servers?
**Answer:** Yes, but test it before you execute something or use -WhatIf parameter, so you see what happens 😊

---

*10:05:49 PDT*

**Question:** How many people are following this training ?
**Answer:** There are about 2000 watching right now

---

*10:06:39 PDT*

**Question:** What is the update help command
**Answer:** The Update-Help cmdlet downloads the newest help files for Windows PowerShell modules and installs them on your computer. You can use the Get-Help cmdlet to view the new help files immediately; you do not need to restart Windows PowerShell to make the change effective. This feature enables you to install help files for modules that do not include them and to update help files on your computer so that they never become obsolete.

---

*10:09:10 PDT*

**Question:** Am I the only one who isn't seeing anything in the Twitter tab?
**Answer:** It seems to be broken today, sorry. There was an update to the Twitter api and we need to make some fixes.

---

*10:09:49 PDT*

**Question:** In order for AD cmdlets to be there, you have to have AD tools installed?
**Answer:** Jerry, Yes, you need to install the AD DS Administration Cmdlets in Windows PowerShell: http://technet.microsoft.com/library/hh852274.aspx. It's a sub-feature of the AD-DS role.

---

*10:10:56 PDT*

**Question:** how do you know that the parameter "-Detailed" exists???
**Answer:** run get-help get-help 😊

---

*10:15:23 PDT*

**Question:** Can you post that link for PS3 once more?
**Answer:** WMF 3.0 http://www.microsoft.com/en-us/download/details.aspx?id=34595

---

*10:16:38 PDT*

**Question:** showwindow is on v2?
**Answer:** -showwindow parameter is introduced in 3.0

---

*10:27:02 PDT*

**Question:** sorry... again... how do i get v3 of ps
**Answer:** get Windows Management Framework from here. http://www.microsoft.com/en-us/download/details.aspx?id=34595

---

*10:32:03 PDT*

**Question:** Why is it that the start-service and stop-service cmdlets don't accept a -ComputerName parameter?
**Answer:** It's not a parameter of the cmdlet, every cmdlet has different parameters, see the help for that. Get-Service has a computername parameter, you can then try get-service servicename -computername hostname | stop-service. I use the pipeline here, that will be cover later in this JumPDTart by the presenters.

---

*10:33:47 PDT*

**Question:** is powershell case sensitive?
**Answer:** Cory, great question! It depends on the cmdlet and parameters, in the online help is described if the parameter requires case-sensitive input.

---

*10:35:16 PDT*

**Question:** You can start typing a cmdlet, displayname, etc and then hit TAB to auto fill the text.
**Answer:** FYI and tab completeion works for parameter names as well as parameter values for parameter types like enums and sets.

---

*10:38:26 PDT*

**Question:** get-alias alias returns the cmdlet. What cmdlet can I use to return the alias when I type in the full cmdlet?
**Answer:** get-alias -Definition <fullnameofcmdlet>

---

*10:40:09 PDT*

**Question:** My tab key didn't work as demonstrated by the presenters. What is wrong with my operation?
**Answer:** tab complete functionality in demos are v3

---

*10:40:26 PDT*

**Question:** Can you just validate a command without executing it or roll it back after the execution if you did not choose wisely when adding parameters?
**Answer:** add int he -whatif parameter

---

*10:40:47 PDT*

**Question:** how to you stop a runaway PS cmd that is filling up your screen? Or has too many "---more---" lines?
**Answer:** use control-C

---

*10:42:15 PDT*

**Question:** Is there a powershell equivalent version of "get-help get-service | grep name", to get only help lines with the word name?
**Answer:** get-help get-service -showwindows. Then you search trough the windows

---

*10:42:15 PDT*

**Question:** what ports does PS use to talk to other servers?
**Answer:** it depends on cmdlet. invoke-command uses 5985 (HTTP) and 5986 (HTTPS)

---

*10:42:45 PDT*

**Question:** i get a shortcut menu when i right click, do i need to change something?
**Answer:** click and drag to highlite text first, then right-click to copy,

---

*10:43:41 PDT*

**Question:** How did Jeffrey get the $ prompt?
**Answer:** he's modified prompt function

---

*10:45:24 PDT*

**Question:** This is so great. Is there any way to get the basics on a cheatsheet?
**Answer:** Yes, check out: http://refcardz.dzone.com/refcardz/windows-powershell

---

*10:48:46 PDT*

**Question:** Any Cheatsheets available that don't make us signup for marketing spam?
**Answer:** Windows PowerShell 3.0 and Server Manager Quick Reference Guides
http://www.powershellmagazine.com/2012/06/09/windows-powershell-3-0-and-server-manager-quick-reference-guides/

---

*10:50:44 PDT*

**Question:** I tried saying this at Build2013, but can we please get a PowerShell keyboard layout for touch interfaces? I.e. running powershell on the Surface Pro is a PAIN to type out commands just because how are it is to get ", ', and |
**Answer:** PowerShell Web Access might be easier to use with touch enabled devices:
http://technet.microsoft.com/en-us/library/hh831611.aspx

---

*10:53:14 PDT*

**Question:** how to check powerShell versión installed?
**Answer:** Get-Host or $Host.Version

---

*10:53:54 PDT*

**Question:** How do you export to Excel?
**Answer:** You can use export-csv and then import the csv into Excel. Otherwise you need to create a separate PowerShell function, but someone already did that for you:
http://www.lucd.info/2010/05/29/beyond-export-csv-export-xls/

---

*10:57:36 PDT*

**Question:** wasnt able to see the complate last command, could you please share it?
**Answer:** COMPARE-OBJECT (IMPORT-CSV C:\GOOD.CSV) (GET-PROCESS) -PROPERTY NAME

---

*11:00:46 PDT*

**Question:** how did you get the help to display in a window again?
**Answer:** get-help get-process -showwindow

---

*11:00:47 PDT*

**Question:** Update-help-force is not working PS 2.0...
**Answer:** That`s correct, updateable help was introduced in version 3.0

---

*11:02:11 PDT*

**Question:** Thx.. Jeffery. What was previous command to export to xml
**Answer:** get-process | export-clixml c:\good.xml

---

*11:03:39 PDT*

**Question:** This is awesome guys!!! This is exactly what I was looking for to get me started down the 'powershell' road! Keep it up.
**Answer:** Great feedback!

*11:04:19 PDT*

**Question:** will we be able to just to sections in the recording
**Answer:** Yes we break them up into one hour recordings.

*11:05:53 PDT*

**Question:** When are they going to appear online?
**Answer:** It takes us about a week to process and post.

*11:06:10 PDT*

**Question:** Can we download the recordings ? Also did Jeffrey forget his music ?
**Answer:** Yes and yes 😊

*11:06:47 PDT*

**Question:** where i can get the slides ??
**Answer:** You can download them from the FAQ tab

*11:08:46 PDT*

**Question:** why are the brackets needed for (get-process)? Compare-Object -ReferenceObject (Import-Clixml .\moep.xml) -DifferenceObject (Get-Process) -Property name
**Answer:** It means that the expression in the brackets is evaluated to give you the data to compare

*11:09:21 PDT*

**Question:** It look like helpdesk staff could use powershell to access the event logs of a compuer in the organization. Am I understanding that correctly?
**Answer:** Correct, as a sysdmin you can also write a tool in PowerShell for your helpdesk to make it even 'clickable' for them... More about toolmaking in the session on the 1st of August.

*11:09:28 PDT*

**Question:** It look like helpdesk staff could use powershell to access the event logs of a compuer in the organization. Am I understanding that correctly?
**Answer:** yes- as long as they have permission to read the logs

---

*11:11:29 PDT*

**Question:** how do I search in the Q&A section?
**Answer:** Control + F should work

---

*11:12:56 PDT*

**Question:** Can I limit PS usage to an OU?
**Answer:** OU asin OrganizationalUnit? Yes, look at the parameters.

---

*11:15:32 PDT*

**Question:** All: I know I asked this question earlier, and sorry if anyone has already answered it but, to reconfirm, Will This event be availble after the session to view as a Webcast, similar thereof?
**Answer:** Yes, we will have the recordings available in about a week.

---

*11:16:34 PDT*

**Question:** FYI -whatif does not seem work for everything - for example for loading the .htm file
**Answer:** -whatif isn't necessarily available on all cmdlets - just those that change system state

---

*11:17:22 PDT*

**Question:** Does the -whatif parameter work only for some commands?
**Answer:** check the help file for a cmdlet to see if its available

---

*11:17:48 PDT*

**Question:** Matt: Great, thank you! Will emails be sent to members once available or should keep checking in?

**Answer:** Yes we do send an email when we have the recordings posted. Should also appear in the RSS feed from this page http://www.microsoftvirtualacademy.com/LiveEvents.aspx

---

*11:20:31 PDT*

**Question:** I am getting "The update is not applicable to your computer" when trying to update to 3.0
**Answer:** are you using the correct 32 or 64bit version

---

*11:20:58 PDT*

**Question:** Does adding a new role/feature to Windows Server automatically install all relevant PowerShell modules?
**Answer:** Yes, for example when you install AD DS role with all sub-features the AD Admin Module is installed automatically

---

*11:21:02 PDT*

**Question:** Hi, i have executed the command: PS C:> get-service -name bits | stop-service but there is no output like: stopping service, only a new PS commandline PS C:> Can i change this behaviour to get more information?
**Answer:** use the -verbose switch

---

*11:21:45 PDT*

**Question:** What cmd tells me what ver of PS I have?
**Answer:** $psversiontable

---

*11:21:56 PDT*

**Question:** Hi Matt Calder, Can you please arrange to get this Q&A also available for download. Since many attendants are asking questions and being answered and many times excellent links are posted, this would come handy for us,Please
**Answer:** Yes we post a transcript of the Q & A with the recordings. You should also get a link to download it in the email we send you tomorrow.

---

*11:23:44 PDT*

**Question:** Get-Command -Module ActiveDirectory find what cmdlets are available under that Module
**Answer:** Sharing! Thanks!

---

*11:25:12 PDT*

**Question:** is there any way to restrict a script to run only on v.3?
**Answer:** put

**Requires -Version 3.0**

at the beginning of your script

---

*11:25:32 PDT*

**Question:** where do we get the slides from?
**Answer:** You can download them from the FAQ tab

---

*11:27:00 PDT*

**Question:** (with a "#" before "requires", correct RSiddaway?)
**Answer:** yes you need the #

---

*11:27:41 PDT*

**Question:** Which version of powershell support windows 2003.
**Answer:** v1 and v2 only I think

---

*11:30:38 PDT*

**Question:** Is there a way for PS count the number of process instances for a specific process name?
**Answer:** get-process -name powershell | Measure-Object

---

*11:31:09 PDT*

**Question:** wat is $ prompt here ? .. m getting PS C:\ here ..
**Answer:** you can create a prompt function to change the prompt

*11:31:27 PDT*

**Question:** Is there a way for PS count the number of process instances for a specific process name?
> *Quoted answer:* get-process -name powershell | Measure-Object
**Answer:** Or this way: get-process | Group-Object -Property ProcessName

*11:32:27 PDT*

**Question:** If I am not an admin user, can I raise the level to admin to run a command , something like su in *nix
**Answer:** you need to start powershell using runas. If you don't have admin level permissions you can't get them thru powershell

*11:33:49 PDT*

**Question:** can I create an alias to map it to more familiar unix commands?
**Answer:** Yes, you can create your own aliases, but be careful with it. See here:
http://www.ilovepowershell.com/how-to-create-a-powershell-alias/

*11:36:27 PDT*

**Question:** Are all cmdlet modules maintained by Microsoft? I'm assuming there's some kind of locally cached (periodically updated) repository so that PS knows how to get modules when necessary?
**Answer:** No, there are also third-party PowerShell. See here for an overview:
http://social.technet.microsoft.com/wiki/contents/articles/4308.popular-powershell-modules.aspx

*11:37:37 PDT*

**Question:** Can you show how to view top-level folder size?
**Answer:** Hi, Dellanno, your question is explained here:
http://blogs.technet.com/b/heyscriptingguy/archive/2012/05/25/getting-directory-sizes-in-powershell.aspx

*11:39:22 PDT*

**Question:** Can I take a folder, with sub-folders, search through all folders for .docx files and find duplicates (by name) in one string?
**Answer:** Do you mean something like :Get-ChildItem -Include *.docx | sort-object -property Name ??

---

*11:39:50 PDT*

**Question:**  Can I take a folder, with sub-folders, search through all folders for .docx files and find duplicates (by name) in one string?
> *Quoted answer:* Do you mean something like :Get-ChildItem -Include *.docx | sort-object -property Name ??
**Answer:** See here: http://blog.codeassassin.com/2007/10/13/find-duplicate-files-with-powershell/

---

*11:43:08 PDT*

**Question:**  @Guido : You have so many references , that's impressive !!!! Matt Calder replied privately: Guido rocks!
**Answer:** Bing is my biggest friend 😬

---

*11:46:04 PDT*

**Question:** I never thought I'd find myself laughing out loud during a Powershell Training. Great Job guys!
**Answer:** Thanks for the feedback!

---

*11:50:41 PDT*

**Question:** What was the name of that PowerShell book he just mentioned?
**Answer:** PowerShell in Action.

---

*11:52:27 PDT*

**Question:** some good article about write-host vs write-output
**Answer:** Yes. see here: http://blogs.technet.com/b/heyscriptingguy/archive/2011/05/17/writing-output-with-powershell.aspx

---

*11:53:02 PDT*

**Question:** might want to share the PowerShell Survival Guide on TechNet wiki[http://social.technet.microsoft.com/wiki/contents/articles/183.windows-powershell-survival-guide.aspx](http://social.technet.microsoft.com/wiki/contents/articles/183.windows-powershell-survival-guide.aspx)
**Answer:** Great resource! Sharing!

---

*11:55:52 PDT*

**Question:** how isolated is powershell shell instances? I.e. running multiple instances of the same .ps1 script. Example: A script that queries the servers for active processes Blah.exe -- what if multiple people run the same script on the computer?
**Answer:** they are isolated - each gets their own result set

---

*12:00:45 PDT*

**Question:** I should say PowerShell ISE specifically
**Answer:** Never seen anything official on that. Most of the MS admin tools are still menu driven rather than ribbon

---

*12:06:52 PDT*

**Question:** when I type the "help about_*" cmd, why does my screen stop scrolling after the page is filled? How can I get complete cmd to output to screen?
**Answer:** The HELP command pauses after each screen full. Press Enter or Space to advance the output. Or, use the GET-HELP command instead (same syntax), which does not pause.

---

*12:12:58 PDT*

**Question:** You keep mentioning V4. What is the story about V4? Is it something I should try to get?
**Answer:** Yes, v4 offers again some great improvements. It's included in Windows 8.1 Preview and available for download here: [http://www.microsoft.com/en-us/download/details.aspx?id=39347](http://www.microsoft.com/en-us/download/details.aspx?id=39347)

---

*12:14:23 PDT*

**Question:** will $_ continue to be aliased to $PSItem for foreseeable future?
**Answer:** Yes.

*12:18:01 PDT*

**Question:** How to exit out of a '--More --' command?
**Answer:** Just type "q"

*12:18:47 PDT*

**Question:** Thanks Jason, It has been very good so far. Even though I missed the last hour. Will there be a recorded version available at a later dater?
**Answer:** You bet -- in about two weeks it will be posted

*12:21:31 PDT*

**Question:** is powershell case sensitive?
**Answer:** Sorry I was mistaken: PowerShell is case-insensitive and if a cmdlet or language feature is case-sensitive (Select-Xml -XPath, regular expressions) we say so in help. The same for online help.

*12:21:46 PDT*

**Question:** Why when i write down : get-service b* | where {$_.Status -eq "Running} , i get same results like when i write : get-service b* | where status -eq running ? Dont i really need $_. ??? My PSVersion is 3.0 does it has smthng to do with CLRVersion 4.0.30319.2012 on my win7 sp1 machine? (Biuld version is 6.2.9200.16398)
**Answer:** $_ is required in v2 OR if you have multiple tests in the where filter

*12:22:12 PDT*

**Question:** Mr Helmick and Mr Snover, you should really go eat something during our international meal break. We want your energy level to continue the whole way through.
**Answer:** You bet! Eating now! 😉

*12:23:51 PDT*

**Question:** Ack, my question disappeared. // Will this session cover powershell handling of STD-IN, STD-OUT, STD-ERR, especially how text data and binary data is handled. i.e. How Linux will pass data between commands, even through SSH sessions with | . With Powershell I am having to use b64 encode/decode to keep PowerShell from parsing the binary data.
**Answer:** That is a bit too niche for a Jumpstart.

---

*12:24:47 PDT*

**Question:** Just tried to connect to powershellmagazine.com. and it's down... Accidently DoS attack by class viewers?
**Answer:** Try PowerShell.org !

---

*12:27:11 PDT*

**Question:** there should be a config parameter mandatory to run such a dangerous command ....... I am surprised. feature request
**Answer:** You can specify $ConfirmPreference="Low" and it will confirm actions if an action has a low or great impact. The default is HIGH

---

*12:29:45 PDT*

**Question:** is there any certification for the product ?
**Answer:** Not for PowerShell directly but Powershell questions appear in many exams

---

*12:33:06 PDT*

**Question:** I took the Exchange 2010 (70-662) exam and I'd say 90% of the questions were Exchange Management Shell (aka Powershell) related. Very much "which cmdlet + parameter will accomplish this task"
**Answer:** The new client exam is around %50 -- most of the exams now require it.

---

*12:33:57 PDT*

**Question:** Windows PowerShell 3.0 and Server Manager Quick Reference Guides
http://www.powershellmagazine.com/2012/06/09/windows-powershell-3-0-and-server-manager-quick-reference-guides/
**Answer:** Thanks! Sharing!

---

*12:35:44 PDT*

**Question:** What was the command to break lines for the purpose of readability? (Missed the first hour due to work.)
**Answer:** the pipe symbol is a line continuation, so is a , in lists otherwise use a backtick `

---

*12:38:49 PDT*

**Question:** How old of systems can run powershell v3?
**Answer:** Win7 - Server 2008

---

*12:40:48 PDT*

**Question:** Any change of downloading this groovy soundtrack?
**Answer:** We license them from Digital Juice 😊

---

*12:41:19 PDT*

**Question:** MOC Course 10961A: Automating Administration with Windows PowerShellhttp://www.microsoft.com/learning/en-us/course.aspx?ID=10961A&Locale=en-us by Don Jones
**Answer:** Which I will hopefully be allowed to update for v4, since the changes should be pretty minor as far as the course goes.

---

*12:44:20 PDT*

**Question:** Another cool script: ([xml](New-Object net.webclient).DownloadString( "http://blogs.msdn.com/powershell/rss.aspx" )).rss.channel.item | Format-Table title,link Your own RSS Feed reader for the PowerShell blog

**Answer:** IF you like that one - you should try this one: iex (New-Object
Net.WebClient).DownloadString("http://bit.ly/e0Mw9w")

---

*12:44:42 PDT*

**Question:** Are they going to show the F7 function in PowerShell?

**Answer:** I'll try to remember to show it -- but with only one day somethings get tossed....... 😜

---

*12:46:10 PDT*

**Question:** I installed v3 during the meal break and tried updating the help file using "update-help -force"
and it fails. I'm running PS as admin, any thoughts?
**Answer:** Try this to see if it gives more details: Update-Help -Verbose -Force. Also, read the error text, it
often points directly at the problem.

---

*12:53:39 PDT*

**Question:** Are there plans for PowerShell 5.0 ? What do you want it to be like? Which cmdlets do you
miss most?

**Answer:** 4.0 isn't out yet - give them chance for a breather 😊

---

*12:56:23 PDT*

**Question:** or to be precise is already out.
**Answer:** remember its just a preview at the moment - things might change

---

*12:56:33 PDT*

**Question:** Is the August event open for registration? I do not seem to find it on the MVA registration
site.
**Answer:** You can register here http://www.microsoftvirtualacademy.com/liveevents/Adv-PowerShell-
Jump-Start We will have both Jeffrey and Jason back

---

*12:58:00 PDT*

**Question:** Great show thanks for all of the hard work everyone put in to make this happen!
**Answer:** We've been looking forward to this one for months!

---

*12:58:33 PDT*

**Question:** @Jason: It's been a great session, and that comes from a long time Bash user.

**Answer:** We laughed about that here in the studio 😊

---

*12:59:44 PDT*

**Question:** Hello I'm looking at getting a PS command to show all services running in the "Manual" state. Any idea how to do that using the Get-Services
**Answer:** get-service won't do it. You need WMI Get-WmiObject Win32_service -Filter "Startmode = 'manual'"

---

*13:00:34 PDT*

**Question:** Grrrr why can't I View/listen to this session from my win phone 8????
**Answer:** Stay tuned -- we will have a new player later this summer

---

*13:00:35 PDT*

**Question:** can you manage sharepoint2010 using V3? or is SharePoint2010 Management Shell preferred? What is the difference in the two as to how they manage SharePoint.
**Answer:** Managing SharePoint 2010 is being done by the SharePoint Management Shell. But you can also use PS Remoting to manage SharePoint 2010 with PowerShell v3 as described here:
http://sharepoint.nauplius.net/2013/04/powershell-remoting-to-a-sharepoint-server-with-powershell-v3-installed/

---

*13:03:16 PDT*

**Question:** Dumb question - Is Powershell 3.0 installable on Windows 7 64 bit?
**Answer:** yes

---

*13:04:26 PDT*

**Question:** they have a nice tip of the day mailing list
**Answer:** Actually, the tip of the day email is PowerShell.COM, which is run by Idera. PowerShell.ORG is independent, although we do have a monthly newsletter with feature articles, we don't do daily tips.

We're all volunteers, so it's tough to write a daily tip 😜

---

*13:05:09 PDT*

**Question:** Dumb question - Is Powershell 3.0 installable on Windows 7 64 bit?
**Answer:** Yes! See here: http://blogs.technet.com/b/heyscriptingguy/archive/2013/06/02/weekend-scripter-install-powershell-3-0-on-windows-7.aspx

---

*13:06:06 PDT*

**Question:** Who owns the PowerShell.org?
**Answer:** Its a community site

---

*13:06:19 PDT*

**Question:** any enchancements in PS v3 in SQL server perspective?
**Answer:** PowerShell doesn't "touch" products like SQL or Exchange. Those teams produce their OWN cmdlets, which "snap in" to PowerShell. SQL2012 did bring significant enhancements to their PowerShell support, but that's not tied to PSHv3.

---

*13:06:34 PDT*

**Question:** Is '?' an alias for where?
**Answer:** ? is an alias for Where-Object, yes.

---

*13:06:40 PDT*

**Question:** is the "$" prompt on Jeffrey's PowerShell a PowerShell 4 thing or something he changed?
**Answer:** He did that.

---

*13:07:06 PDT*

**Question:** is the "$" prompt on Jeffrey's PowerShell a PowerShell 4 thing or something he changed?
**Answer:** its not a v4 thing - guess he changed his prompt

---

*13:07:39 PDT*

**Question:** Alias ? -> Where-Object
**Answer:** where or ? if you really must

---

*13:11:11 PDT*

**Question:** where do you get windows build 9450?
**Answer:** You are reffering to the Windows 8.1 Preview right? You can download the Windows 8.1 Preview here: http://windows.microsoft.com/en-us/windows-8/preview-download

---

*13:11:58 PDT*

**Question:** sent to Team: There a lot of questions about how Jeffrey changed his prompt to $. Maybe he can quickly elaborate on that?
**Answer:** in your powershell profile put

function prompt { "$ " }

---

*13:12:39 PDT*

**Question:** windows 8.1 preview is build 9431 - Jeffrey is running 9450
**Answer:** Jeffrey architects the product, he sometimes gets sneek preview versions I suspect 😊.

---

*13:13:12 PDT*

**Question:** The Don Jones book he mentioned. What was it called? Is it a free eBook or does it cost money?
**Answer:** "Learn Windows PowerShell in a Month of Lunches," and it costs money, which I use to pay the phone bill every so often 😊.

---

*13:13:13 PDT*

**Question:** The Don Jones book he mentioned. What was it called? Is it a free eBook or does it cost money?
**Answer:** learn powershell in amonth of lunches - see http://www.manning.com

---

*13:14:19 PDT*

**Question:** if you have a problem updating help in v3 or later try update-help -verbose -force -UICulture en-us
**Answer:** Thanks! Sharing!

---

*13:16:39 PDT*

**Question:** Is there a way to configure your PS to always start a new timestamped log for each shell session so you automatically have a record of all I/O?
**Answer:** You could. You'd need a profile script that used Start-Transcript. It'll only work on the console, though not in the ISE. The ISE doesn't do transcripts.

---

*13:17:00 PDT*

**Question:** Is there a way to configure your PS to always start a new timestamped log for each shell session so you automatically have a record of all I/O?
**Answer:** start-transcript - check the help file for details

---

*13:18:50 PDT*

**Question:** When may I see the presentation online on demand? It's getting a bit late here. Lave it, but can't follow any longer. Will I get an email notification if it is available?
**Answer:** Yes we will send an email when the recording is ready.

---

*13:20:00 PDT*

**Question:** is there a way we can find most of 3rd party powershell pssnapins in one place? i.e. xenserver snapins, powercli etc.
**Answer:** Unfortunately, no. They're all provided by different products teams and even different companies. There is no central directory that I know of.

*13:20:32 PDT*

**Question:** Run Get-Service *b. I only get one thing returned.
**Answer:** Same case here, you will get more services more if you do this: "get-service b". When you do *b it will list all services that have text and then end with b, If you do b* it will list all services who start with b.

*13:23:53 PDT*

**Question:** We need a PS package manager and central repository like apt-get.
**Answer:** If you have feedback, you can file at the connect program for PowerShell, the team likes feedback and improves the language that way. See here for the program: connect.microsoft.com/PowerShell.

*13:24:55 PDT*

**Question:** when you are using get-eventlog does it work with forwarded events or do you have to get them from the source computer?
**Answer:** Get-EventLog only works with the "classic" logs, so whatever is in the log of the queried computer will show up, regardless of how it got there.

*13:26:05 PDT*

**Question:** +1 to the apt-get idea...
**Answer:** Do that +1 on connect.microsoft.com where the team will actually see it 😊

*13:28:47 PDT*

**Question:** Where do you download other PS modules to run from a workstation, like Get-ADComputer?
**Answer:** You get them from the module vendor. In the specific case of Get-ADComputer, it's in the ActiveDirectory module, which comes with all Domain Controllers and in the RSAT.

*13:30:59 PDT*

**Question:** Or, Get-Help Get-Service -ParameterName InputObject
**Answer:** Sharing!

*13:31:27 PDT*

**Question:** The alternative to Get-Eventlog is Get-WinEvent. It gets event logs in the new format.
**Answer:** Sharing. Great info June!

*13:31:57 PDT*

**Question:** @JSnover, why aren't there -ByValue and -ByProperty parameters on get-help to just show a quick table of the appropriate parameters?
**Answer:** Good suggestion! You should add that in connect.microsoft.com and let others vote on it, so that the team can think about it for a future version.

*13:36:56 PDT*

**Question:** Is there any powershell equivalente to linux's sudo?
**Answer:** No - use runas administrator to start powershell

*13:37:16 PDT*

**Question:** Do you know if this jump start will be available to watch later? I missed the first hours =(
**Answer:** Yes we will have the recording available in about a week.

*13:37:20 PDT*

**Question:** Why was he selecting Name in the first place?
**Answer:** to show you before and after

*13:39:23 PDT*

**Question:** The changes Jason is making, are they lost when you close your PS window?
**Answer:** yes - but save the commands to a script and you can reuse

*13:41:25 PDT*

**Question:** Is this being recorded or playback at a later time?
**Answer:** Yes, all sessions are being recorded and will be posted to MVA. We will send the URL to all attendees when they're published in approximately 2 weeks.

---

*13:42:20 PDT*

**Question:** You can also put the commands in your Windows PowerShell profile.

**Answer:** Yeah, great comment and that's also the place where you put in your own functions 😊

---

*13:44:23 PDT*

**Question:** RSiddaway - your book "Powershell and WMI" is the bible on the stuff they are talking about! Thanks for writing it!
**Answer:** Thank you - glad you enjoyed it

---

*13:45:20 PDT*

**Question:** How can I ping all the computers listed in Get-ADComputer -filter *?
**Answer:** yes - use test-connection - watch this bit for how to use computername

---

*13:48:24 PDT*

**Question:** I see how you can get vices that are stopped that are configured to auto-start. How would you exclude stopped automatic services that are allowed to stop?
**Answer:** Get-Service | where {$_.Status -eq 'Stopped' -and !$_.CanStop}

---

*13:48:49 PDT*

**Question:** @Richard Siddaway : Where can i find your book "Powershell and WMI" please ?
**Answer:** link or amazon

---

*13:51:23 PDT*

**Question:** My powershell does not know about Get-ADComputer. Is there a path missing? Guido van Brakel replied privately: Have you installed the AD Module for PowerShell?

**Answer:** You can install it using PowerShell this way: Using PowerShell*Import-Module ServerManagerAdd-WindowsFeature RSAT-AD-PowerShell*

---

*13:54:14 PDT*

**Question:** Is there a way to to a query like they are doing but instead of just AD name of every computer can you target a specific OU or set of OUs underneath a root OU?
**Answer:** Yes, it also reffered in the help of Get-ADComputer. But you can do it this Get-ADComputer -Filter * -SearchBase "CN=Computers,DC=Fabrikam,DC=com"

---

*13:54:40 PDT*

**Question:** Is there a way to to a query like they are doing but instead of just AD name of every computer can you target a specific OU or set of OUs underneath a root OU?
**Answer:** yes - theres a parameter to restrict to an OU called -searchbase

---

*14:06:20 PDT*

**Question:** Hi, I got in abit late as it started at 4am in my timezone. Is there going to be any recorded video session that I can refer to after this?
**Answer:** Yes we will post the recordings in about a week.

---

*14:07:55 PDT*

**Question:** I'm pretty dang handy in PowerShell, but I've never really used remoting. Is there a recommended "quick start" to remoting where I can get up to speed quickly?
**Answer:** theres a free ebook on powershell.org

---

*14:12:22 PDT*

**Question:** What ports need to be open (through firewalls) for remoting?
**Answer:** 5985 (HTTP), 5986 (HTTPS)

---

*14:16:51 PDT*

**Question:** In one of the Windows Server 2012 launch events it was shown a PowerShell command line that starts up many different Hyper-V virtual machines all at once. Could you give us this command line

sintax? This is very helpfull to set up a lab class.
**Answer:** Get-VM | Start-VM

---

*14:19:33 PDT*

**Question:** Hmm...why not go to the powershell box instead of cmd?
**Answer:** one day hopefulyl

---

*14:23:28 PDT*

**Question:** Can remote commands work on Linux or Unix systems?
**Answer:** no - you need powershell installed on the remote box

---

*14:24:03 PDT*

**Question:** What are the requirements of the remote systems in order to invoke commands? PS v1, WinRM?
**Answer:** PS v2 and above

---

*14:24:18 PDT*

**Question:** what happens if one of the machines you are remoting is powered off?
**Answer:** you can't connect and get an error

---

*14:25:21 PDT*

**Question:** Is there any reason to not upgrade to Powershell v3 on all servers?
**Answer:** yes - issues with Exchange and some other apps - check powershell team blog

---

*14:25:48 PDT*

**Question:** How do we audit when the admins do things in AD through PS? What is the event logged as?
**Answer:** same as do it through GUI

---

*14:26:53 PDT*

**Question:** can this training be viewed as recording later on? if so, how?
**Answer:** We will post the recordings to MVA in about a week. You'll be able to find them from our Live Events page http://www.microsoftvirtualacademy.com/LiveEvents.aspx

---

*14:29:43 PDT*

**Question:** how do I remote into a VM using a non-domain joined machine? can it be done?
**Answer:** yes - you need to configure the trustedhosts lists - its covered in the free ebook on powershell.org

---

*14:30:58 PDT*

**Question:** is there an ebook for v4?
**Answer:** not yet - we're looking at it

---

*14:33:03 PDT*

**Question:** Are any commands deprecated in v3? Will my v2 scripts break?
**Answer:** no commands deprecated but there are breaking changes - check the release notes

---

*14:34:01 PDT*

**Question:** how do you configure trustedhost lists
**Answer:** pull the remoting ebook from powershell.org - it has details

---

*14:35:11 PDT*

**Question:** where and how do you install powershell version 4.0?
**Answer:** PowerShell v4 is included in Windows 8.1 Preview or Windows Server 2012 R2 Preview. By installing those you have it in the box. You can also it from here: http://www.microsoft.com/en-us/download/details.aspx?id=39347

---

*14:36:50 PDT*

**Question:** The v4 preview (very much still a preview) is also incompatible with some server apps. As Richard says, the details are in the release notes.
**Answer:** Sharing!

---

*14:37:35 PDT*

**Question:** for add-pswaauthorizationrule I'm guessing it can be tied to an AD groups?
**Answer:** yes you can authorize groups or individuals

---

*14:38:58 PDT*

**Question:** Can I still set up PS profiles through PSWA?
**Answer:** not directly

---

*14:39:18 PDT*

**Question:** i am not sure of what command i am going to type on the beach
**Answer:** get-beer

---

*14:40:04 PDT*

**Question:** +1 for Windows PowerShell in Action. It is the must have book on PowerShell IMO.
**Answer:** Its a great book but its definitely not a beginners book

---

*14:40:40 PDT*

**Question:** Can this be done on Win8 as well?
**Answer:** No - needs to be windows server 2012

---

*14:41:48 PDT*

**Question:** what is a good beginner book for PS 3.0
**Answer:** Don Jones' book - Learn PowerShell in a month of lunches from http://www.manning.com

---

*14:42:00 PDT*

**Question:** Are there any plans to backport Pswa for 2008 R2, ever? Like many, we are not on 2012 yet.
**Answer:** doubt it

---

*14:46:04 PDT*

**Question:** so what is better, invoke-command -ComputerName s1 {get-eventlog ….. or just go directly and do Get-Eventlog - Computername ??
**Answer:** it depends - invoke-command uses WSMAN so firewall friendly but returns inert object. get-eventlog returns active object. What do you want to do with the results

---

*14:47:11 PDT*

**Question:** Is it possible to get SharePoint ULS log?
**Answer:** Yes, you can query the ULS log using the following cmdlet: Get-SPLogEvent:
http://technet.microsoft.com/en-us/library/ff607589%28v=office.14%29.aspx

---

*14:47:58 PDT*

**Question:** I don't have get-volume, what am I missing?
**Answer:** only on windows 8 or 2012

---

*14:48:04 PDT*

**Question:** Is get-volume only available on Windows 8 and 2012 server?
**Answer:** yes

---

*14:48:41 PDT*

**Question:** how do you hide the PSComputer name?
**Answer:** just select the properties you want see

---

*14:49:08 PDT*

**Question:** so what you're saying is get-volume is only available on windows 8 and 2012 server?
**Answer:** yes

*14:49:13 PDT*

**Question:** how do you hide the PSComputer name?
> *Quoted answer:* just select the properties you want see
**Answer:** -HideComputerName parameter

---

*14:49:26 PDT*

**Question:** in version 2.0, you have to use wmi, correct? or is there a better way?

**Answer:** there is no better way than WMI 😄

---

*14:49:46 PDT*

**Question:** Get-Volume doesnt work for me on v3
**Answer:** windows 8/2012 only

---

*14:50:13 PDT*

**Question:** How would I find free space per volume when I have a mixture of 2012 and non-2012 servers?
**Answer:** get-wmiobject win32_volume

---

*14:50:33 PDT*

**Question:** is there a command similar to the Tail command in Unix to continuously see the last lines of the log file?
**Answer:** get-content -tail

---

*14:50:50 PDT*

**Question:** Are there any plans to expand powershell remoting from WinRM and PSWA to something like SSH, so non-windows automation tools (as opposed to myself at the beach with my iPhone) can perform remote commands?
**Answer:** don't know of any but unlikely

---

*14:52:23 PDT*

**Question:** can someone post a link to where you enable the remote ability on servers? thanks

**Answer:** Enable-PSRemorting 😊

---

*14:52:46 PDT*

**Question:** Where can we download these slides?

**Answer:** From the FAQ tab

---

*14:53:26 PDT*

**Question:** Will this presentation be available immediately after?

**Answer:** In about one week.

---

*14:54:09 PDT*

**Question:** a tail command would be nice

**Answer:** There is: Get-Content D:\log.txt –Wait

---

*14:55:07 PDT*

**Question:** will all the Q&A information with the links be accessable after the session for later review

**Answer:** Yes!!

---

*14:55:54 PDT*

**Question:** PS C:\windows\system32> get-volume get-volume : The term 'get-volume' is not recognized as the name of a cmdlet, function, script file, or operable program. I am on V3

**Answer:** are you on windows 8 or 2012? if not won't see it

---

*14:56:10 PDT*

**Question:** is there a way to show all the commands you have used?

**Answer:** get-history

---

*14:56:39 PDT*

**Question:** Why is it PS1? Is a PS2 also valid?
**Answer:** ps1 is the extension for a powershell script

---

*14:57:34 PDT*

**Question:** is there a way to see what commands are windows 8 only versus windows 7? There seems to be a few major differences
**Answer:** not easily - I did a blog post on it a couple of years back

---

*14:58:06 PDT*

**Question:** Windows 7 But I did download V3
**Answer:** need windows 8/2012

---

*15:02:30 PDT*

**Question:** So, is there a way to initiate a remote powershell session with a server or computer that is not joined to a domain and does not have an SSL certificate?
**Answer:** yes - checkout the free remoting book on powershell.org for details

---

*15:05:32 PDT*

**Question:** Tail is Get-Content -Tail, not -Wait
**Answer:** Thanks June! Sharing this!

---

*15:06:27 PDT*

**Question:** powershell can leverage BITS services, for example to control TRANSFER OF million records remote event viewer?
**Answer:** look at the cmdlets in the BitsTransfer module

---

*15:10:58 PDT*

**Question:** @RichardSiddaway, your PowerShell in Practice book was awesome. Definite recommend.
**Answer:** thank you - glad you liked it

---

*15:11:32 PDT*

**Question:** just to confirm, psv3 is backwards compatible with psv2 and v1 correct? For example, if I create a script in ps v3 I "should" be able to execute it on a system running ps v2?
**Answer:** not if you use cmdlets that aren't in v2

---

*15:12:38 PDT*

**Question:** for french beginners, they can find powershell books at ENI. http://www.editions-eni.fr/livres/recherche/.462b164bb4854b14c4321630bd7b9f25.html?exp=powershell(written by french MVP)
**Answer:** Sharing

---

*15:17:02 PDT*

**Question:** Can you bring up that list of all possible ExecutionPolicies in a cmdlet somehow? I don't see it in get-help
**Answer:** try to set a phony value, like set-ExecutionPolicy foo, and you will get an error message with a list of valid values

---

*15:20:19 PDT*

**Question:** what was the command to browse the cert store?
**Answer:** cd cert: and then dir

---

*15:22:03 PDT*

**Question:** what was the command to browse the cert store?
**Answer:** VirtuallyJoe, see here: http://technet.microsoft.com/en-us/library/hh847761.aspx

---

*15:25:52 PDT*

**Question:** Does a variable reset when PS is closed?
**Answer:** it is destroyed

---

*15:26:16 PDT*

**Question:** Is the drive Cert persistent after closing powershell?
**Answer:** Cert: is one of built-in PowerShell drives (try Get-PSDrive)

---

*15:29:30 PDT*

**Question:** @MLaval: Merci pour ce lien !
**Answer:** Sharing

---

*15:29:59 PDT*

**Question:** I'm pretty sure Don Jones is the one who kills the puppy

**Answer:** no - he's good but not god 😊

---

*15:33:07 PDT*

**Question:** @RichardM : de rien, si cela peut être utile, n'est-ce pas le but de share ?
**Answer:** Oui!

---

*15:36:34 PDT*

**Question:** that joke is getting old. https://twitter.com/alexandair/status/326614440109813760
**Answer:** but the old ones are the best ones 😊

---

*15:37:21 PDT*

**Question:**  that joke is getting old. https://twitter.com/alexandair/status/326614440109813760
> *Quoted answer:* but the old ones are the best ones
**Answer:** not that one. that one is getting boring.

---

*15:39:04 PDT*

**Question:** where will this video be archived?
**Answer:** We will post it on Microsoft Virtual Academy. It will appear on our Live Events
http://www.microsoftvirtualacademy.com/LiveEvents.aspx

*15:41:06 PDT*

**Question:** How is Session different from Jobs?
**Answer:** a remote session is a connection to another machine. A job is something that runs asynchronously on a local or remote machine

*15:45:23 PDT*

**Question:** foreach is so cool
**Answer:** Agree, really powerful!

*15:46:10 PDT*

**Question:** i love today's session... it feels like having Vin Diesel on powershell :-D
**Answer:** Haha lol, he is really like Vin Diesel 😊

*15:50:20 PDT*

**Question:** yes - you need to configure the trustedhosts lists - its covered in the free ebook on powershell.org Followed directions in the e-book to add to trustedhosts lists and even disabled firewalls and configuring winrm...still cannot connect to domain doined VM from non-domain joined host machine via powershell even though I can ping both from each other by both IP and name...can't believe its that hard
**Answer:** post your problem to PowerShell Remoting forum (http://powershell.com/cs/forums/238.aspx) and I will try to help you

*15:54:30 PDT*

**Question:** combine both of those with workflows and we're talking totally cool parallel processing
**Answer:** Yeah really cool stuff 😊

*15:58:34 PDT*

**Question:** I have Learn Windows Powershell in a month of lunches but its for v2 (I didn't know this when I bought it- bought online). Am I missing a lot by not having the v3 book?
**Answer:** everything in the v2 book is still valid - some bits missing but you can pick them up separate;y

---

*16:00:04 PDT*

**Question:** Does this only work on Server2012 dc's?
**Answer:** No, you remote from a Windows 8 machine to a Windows Server 2012 DC for example.

---

*16:00:14 PDT*

**Question:** Does this only work on Server2012 dc's?
**Answer:** implicit remoting is v2 feature

---

*16:00:56 PDT*

**Question:** Getting Started with Windows PowerShell Workflow: http://technet.microsoft.com/en-us/library/jj134242.aspx
**Answer:** Sharing!

---

*16:00:58 PDT*

**Question:** Can you implicitly remote from v3 to v2?
**Answer:** yes

---

*16:02:29 PDT*

**Question:** Where can we find the shortened versions of all the Cmdlets? (i.e. nsn = NewSession)
**Answer:** look at get-alias to find all the aliases

---

*16:02:35 PDT*

**Question:** Our highest level of dc's is 08 R2. So we are missing out on this import functionality?
**Answer:** no, you can use implicit remoting with 2008 r2

---

*16:03:30 PDT*

**Question:** So for the remote commands, do file paths refer to the remote machines or the local machine?

---

**Answer:** Local machine. [ADMIN]: PS C:\ps-test> get-help Invoke-Command -Parameter FilePath

-FilePath <String> Runs the specified local script on one or more remote computers. Enter the path and file name of the script, or pipe a script path to Invoke-Command. The script must reside on the local computer or in a directory that the local computer can access. Use the ArgumentList parameter to specify the values of parameters in the script. When you use this parameter, Windows PowerShell converts the contents of the specified script file to a script block, transmits the script block to the remote computer, and runs it on the remote computer.

---

*16:06:19 PDT*

**Question:** where will we be able to download the video presentation after it has completed?
**Answer:** Yes, all sessions are being recorded and will be posted to MVA. We will send the URL to all attendees when they're published in approximately 2 weeks.

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*16:07:00 PDT*

**Question:** better be careful of killing processes, restarting machines, etc. if using that implicit remoting!
**Answer:** Agree think and then type!

---

*16:08:53 PDT*

**Question:** What if you piped a script to Invoke-command? Could you run a local script on a remote machine that way?
**Answer:** use the -FilePath parameter to give the path to the local script

---

*16:09:01 PDT*

**Question:** You can use a script path on the remote machine as long as you know the script will be there on the remote machine e.g. invoke-command server1 { c:\scripts\foo.ps1 } will work just fine assuming foo.ps1 is located in c:\scripts on server1.
**Answer:** If that script block is the value of the FilePath parameter??

---

*16:09:37 PDT*

**Question:** I bought some powershell version 2 books are they still relevant?
**Answer:** very much so. Powershell 3 is a superset of v2 so you'll have the basics down solid from those books

*16:10:48 PDT*

**Question:** When recording of this jumpstart will be available?
**Answer:** This video will be available in a couple of weeks

*16:22:34 PDT*

**Question:** What is the general consensus on PowerShell ISE vs. PowerGUI? Is there any benefit to a 3rd party editor?
**Answer:** PowerShell ISE a Microsoft Supported Tool. PowerGUI is maintained by the community. Mostly is personal preference.

*16:23:28 PDT*

**Question:** What is the general consensus on PowerShell ISE vs. PowerGUI? Is there any benefit to a 3rd party editor?
> *Quoted answer:* PowerShell ISE a Microsoft Supported Tool. PowerGUI is maintained by the community. Mostly is personal preference.
**Answer:** PowerGUI is maintained by Dell, not the community

*16:37:09 PDT*

**Question:** how do you get ISE for a windows server 2012?
**Answer:** Windows PowerShell 3.0 and Windows PowerShell ISE are installed and accessible by default on Windows Server 2012, and a Windows PowerShell shortcut is pinned to the taskbar. Just type win+r and then powershell ise.

*16:46:50 PDT*

**Question:** What happens if you want to install a module for all users on a computer?
**Answer:** Does this answer your question:
http://blogs.technet.com/b/heyscriptingguy/archive/2010/01/19/hey-scripting-guy-january-19-2010.aspx

*16:47:35 PDT*

**Question:** Is the slide deck available?
**Answer:** Yes!! See the FAQ tab!

---

*16:47:46 PDT*

**Question:** doesn't function and module exist in PoSh 2 ? there isn't new things in PoSh 3 ?
**Answer:** yes, introduced in 2.0

---

*16:51:09 PDT*

**Question:** Does intelissense work on c in Windows 7?
**Answer:** No, Windows 7 has PowerShell v2 by default, and IntelliSense was introduced in PowerShell v3. But you can install PowerShell v3 on Windows 7 and then you have IntelliSense.

---

*16:51:24 PDT*

**Question:** Fantastic stuff gentlemen! Thanks a lot! See you in two weeks!
**Answer:** See you then!

---

*16:53:04 PDT*

**Question:** Is there a way to ssh with powershell?
**Answer:** Not by default, but PowerShell can do anything: http://huddledmasses.org/scriptable-ssh-from-powershell/

---

*16:57:05 PDT*

**Question:** It's also good to know that many 3rd parties adopted PowerShell to manage other things besides Windows and other Microsoft products. By example VMware, Citrix, Cisco and storage manufacturers.
**Answer:** Yeah agree. Thanks for attending Bjorn!

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*17:03:53 PDT*

**Question:** Tons of community resources here:
http://social.technet.microsoft.com/wiki/contents/articles/183.windows-powershell-survival-guide.aspx
**Answer:** Sharing!

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*17:20:20 PDT*

**Question:** Was not awake over the night here in Brisbane to keep up with this. Is there a way we can get slides off this presentation as it is already ended?
**Answer:** You can download them from the FAQ tab and we will post them when we post the recording