e for statement you use --, which will crement the value of $item by one. u use the Write-Debug cmdlet to nt out the value of the index num- if the script is run with the -debug itch. You also tab over by using the character and print out the timegen- ted time value. This section of code hown here:

```
or($item = $sortedList.Count-2 ; $item -ge
0 ; $item--)

Write-Debug "$item `t `t $($sortedList.
GetByIndex($item)) `t `
 $($sortedList.Keys[$item])"
```

the eventID value is equal to 6005, ch is the startup eventID value, calculate the amount of uptime by tracting the start time from the pre- us downtime value. Store this value he $uptime variable. If you are in ug mode, you can use the Write- ug cmdlet to print these values to screen:

```
($sortedList.GetByIndex($item) -eq $startUpID)

uptime += ($sortedList.Keys[$item+1]
 $sortedList.Keys[$item])
Write-Debug "adding uptime. `t uptime is
: $uptime"
#end if
end for item
```

st, you need to generate the re- Pick up the computer name from ystem environment variable com- r. You use the current time stored e $startingdate value, and you dis- the total minutes of uptime for period. You use the format speci- 0:n2} to print the number to two s. Next, calculate the percentage owntime by dividing the number otime minutes by the number of ites in the time period covered by eport. Use the same format speci- o print the value to two decimal s. Just for fun, you can also cal- e the percent of uptime and then out both values, like so:

```
al up time on $env:computername since
rtingDate is " + "{0:n2}" -f `
ptime.TotalMinutes + " minutes."
imeMinutes = $Uptime.TotalMinutes
centDownTime = "{0:n2}" -f (100 - ($UpTime
tes/$minutesInPeriod)*100)
centUpTime = 100 - $percentDowntime
centDowntime% downtime and
centUpTime% uptime."
```

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Dr. Scripto's Scripting Perplexer

The monthly challenge that tests not only your puzzle-solving ability but also your scripting skills.

December 2008: PowerShell Commands

The list below contains 21 Windows PowerShell commands. The square contains the same commands, but they are hidden. Your job is to find the commands, which may be hidden horizontally, vertically, or diagonally (forward or backward).

EXPORT-CSV	FORMAT-LIST	FORMAT-TABLE
GET-ACL	GET-ALIAS	GET-CHILDITEM
GET-LOCATION	INVOKE-ITEM	MEASURE-OBJECT
NEW-ITEMPROPERTY	OUT-HOST	OUT-NULL
REMOVE-PSSNAPIN	SET-ACL	SET-TRACESOURCE
SPLIT-PATH	START-SLEEP	STOP-SERVICE
SUSPEND-SERVICE	WRITE-DEBUG	WRITE-WARNING

S	R	E	M	O	V	E	P	S	S	N	A	P	I	N	A
U	T	M	E	T	I	D	L	I	H	C	T	E	G	E	T
S	G	O	F	O	R	M	A	T	T	A	B	L	E	W	C
P	R	E	P	I	S	A	I	L	A	T	E	G	X	I	E
E	X	P	T	S	O	H	T	U	O	U	N	U	P	T	J
N	W	H	I	L	E	A	N	D	B	I	L	B	O	E	B
D	R	A	T	M	O	R	M	A	N	V	C	E	R	M	O
S	O	L	H	A	R	C	V	R	E	D	A	D	T	P	E
E	G	E	T	A	C	L	A	I	R	I	T	E	C	R	R
R	E	D	A	H	K	W	E	T	C	F	E	T	S	O	U
V	A	N	P	I	E	R	A	L	I	E	S	I	V	P	S
I	S	E	T	T	R	A	C	E	S	O	U	R	C	E	A
C	U	T	I	O	U	T	N	U	L	L	N	W	I	R	E
E	A	R	L	M	E	T	I	E	K	O	V	N	I	T	M
S	W	A	P	F	O	R	M	A	T	L	I	S	T	Y	A
R	E	C	S	N	O	P	E	E	L	S	T	R	A	T	S

You can find the answer to this puzzle at technetmagazine.com/puzzle.

So now The Scripting Guys return to the original question: When is up down? You now see that you can't talk about uptime without taking downtime into consideration. If you thought this was fun, check out the other "Hey, Scripting Guy" columns at technet.microsoft.com/magazine/cc135880 or go to the Script Center at microsoft.com/technet/scriptcenter. ■

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