Operatoren, Datentypen

Powershell-Variablen

Variable	Bedeutung
$^	Contains the first token of the last line input into the shell
$$	Contains the last token of the last line input into the shell
$_	The current pipeline object; used in script blocks, filters, Where-Object, ForEach-Object, and Switch
$?	Contains the success/fail status of the last statement
$Args	Used in creating functions requiring parameters
$Error	If an error occurred, the error object is saved in the $error variable.
$ExecutionContext	The execution objects available to cmdlets
$foreach	Refers to the enumerator in a foreach loop
$HOME	The user's home directory; set to %HOMEDRIVE%%HOMEPATH%
$Input	Input is piped to a function or code block.
$Match	A hash table consisting of items found by the -match operator
$MyInvocation	Information about the currently executing script or command-line
$PSHome	The directory where PS is installed
$Host	Information about the currently executing host
$LastExitCode	The exit code of the last native application to run
$true	Boolean TRUE
$false	Boolean FALSE
$null	A null object
$this	In the Types.ps1xml file and some script block instances, this represents the current object
$OFS	Output Field Separator used when converting an array to a string
$ShellID	The identifier for the shell. This value is used by the shell to determine the ExecutionPolicy and what profiles are run at Startup
$StackTrace	Contains detailed stack trace information about the last error

Vergleichsoperatoren

Operator	klassisch	Beschreibung	Beispiel	Ergebnis
-eq,-ceq, -ieq	=	Gleichheit	10 -eq 15	$false
-ne, -cne, -ice	<>	Ungleichheit	10 -ne 15	$true
-gt,-cgt, -igt	>	Größer	10 -gt 15	$false
-ge,-cge, -ige	>=	Größer gleich	10 -ge 15	$false
-lt,-clt, -ilt	<	Kleiner	10 -lt 15	$true
-le,-cle, -ile	<=	Kleiner gleich	10 -le 15	$true
-contains [1]		Enthält	1,2,3 -contains 1	$true
-notcontains		Nicht enthält	1,2,3 -notcontains 1	$false
-is		Typgleichheit	$feld -is [array]	$true
-like		Wildcard		
-notlike		Wildcard		
-match		regulärer Ausdruck		
-notmatch		regulärer Ausdruck		

Logische Operatoren

Operator	Description	Left Value	Right Value	Result
-and	Both conditions must be met	True False False True	False True False True	False False False True
-or	At least one of the two conditions must be met	True False False True	False True False True	True True False True
-xor	One or the other condition must be met, but not both	True False False True	True False True False	False False True True
-not	Reverses the result	(not applicable)	True False	False True

Mathematische Operatoren

Es gelten folgende Voraussetzungen

```
PS> $a = 10
    $b = 15
```

Operator	klassisch	Beispiel	Ergebnis
Addition	+	$a + $b	25
Division	-	$a - $b	-5
Multiplikation	*	$a * $b	$false
Modulo [2]	%	$a % 3	1
Increment	++	$a++	11
Decrement	- -	$b- -	14

Powershell-Datentypen

Typ	Beschreibung	Beispiel
array	Liste von Werten	
bool	Ja-Nein-Wert	
char	Unicode Zeichen	
byte	Integer 8 Bit	
datetime	Datumswert	
decimal	Dezimal	
double	Gleitkomma	
guid	Eindeutige Zahl	
hashtable		
int 16/32/64	Ganzzahl	
sbyte		
single		
string	Zeichenkette	
timespan	Zeitspanne	
xml		