

```
E ~
Copying skeleton files.
These files are for the user to personalise their cygwin experience.
They will never be overwritten nor automatically updated.
'./.bashrc' -> '/home/RabbitAtNet/./.bashrc'
'./.bash_profile' -> '/home/RabbitAtNet/./.bash_profile'
'./.inputrc' -> '/home/RabbitAtNet/./.inputrc'
RabbitAtNet@Hyperion ~
$ windows?
bash: windows?: command not found
RabbitAtNet@Hyperion ~
$
```

Bashing Windows

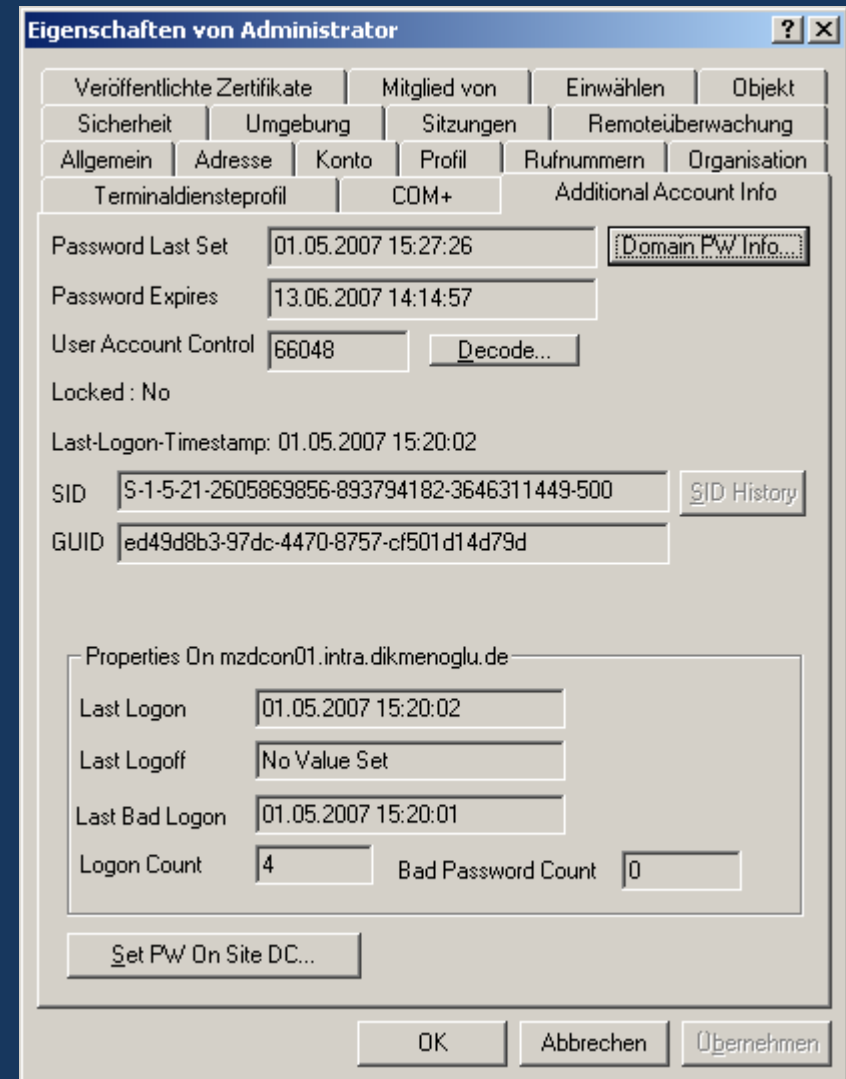
Ein Einführung zur Windows PowerShell

Warum eine Shell?

Graphische Oberfläschen:

+ vereinfachen Einstieg

- unflexibel
- geschwätzig
- schlecht zu automatisieren



Windows Administration

- graphisch:
 - Spezialisierte graphische Oberfläschen
 - Microsoft Management Console (Server Manager)
- Konsole:
 - Vereinzelte Werkzeuge
 - Spezialisierte Shells (netdom, netsh)
- Scripting:
 - Cmd & Batch-Skripte
 - WSH & VBS

Linux

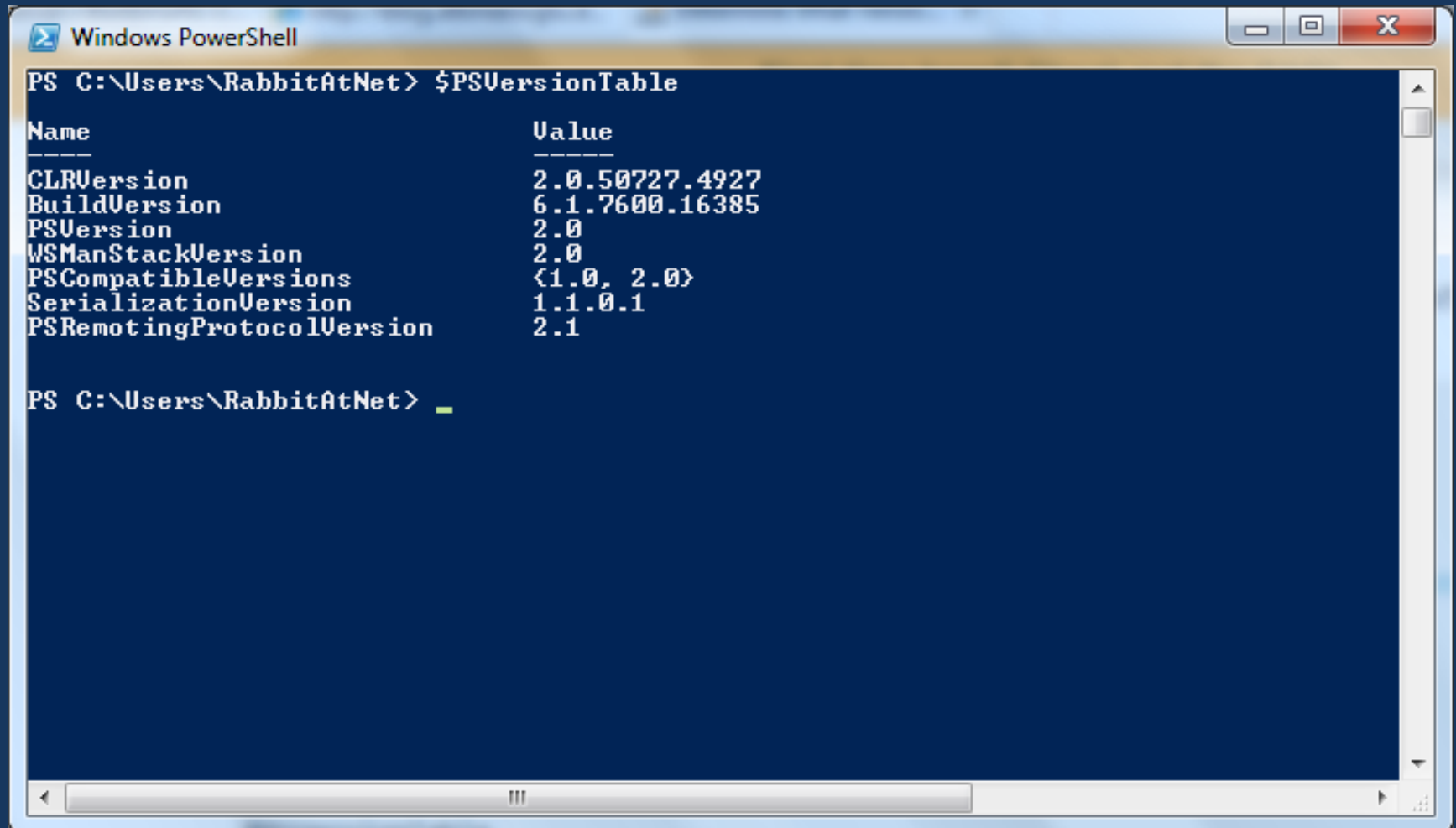


- alles (!!!) über Konsole verwaltbar
- manpages
- Auswahl bei Scripting
 - bash, python, perl ...

PowerShell

- aufbauen auf .Net → alles ist ein Objekt!!!
- konsistente Befehlsnamen & -handhabung
- integrierte, funktionale Hilfe
- Einbindung bestehender Schnittstellen
 - .Net Klassen
 - WMI
 - COM
- Fernzugriff (seit Version 2)

Interaktive Kommandozeile



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the command prompt at "PS C:\Users\RabbitAtNet> \$PSVersionTable". The output is a table with two columns: "Name" and "Value". The table lists various PowerShell and .NET versions. Below the table, the prompt "PS C:\Users\RabbitAtNet> _" is visible, indicating the command has been executed.

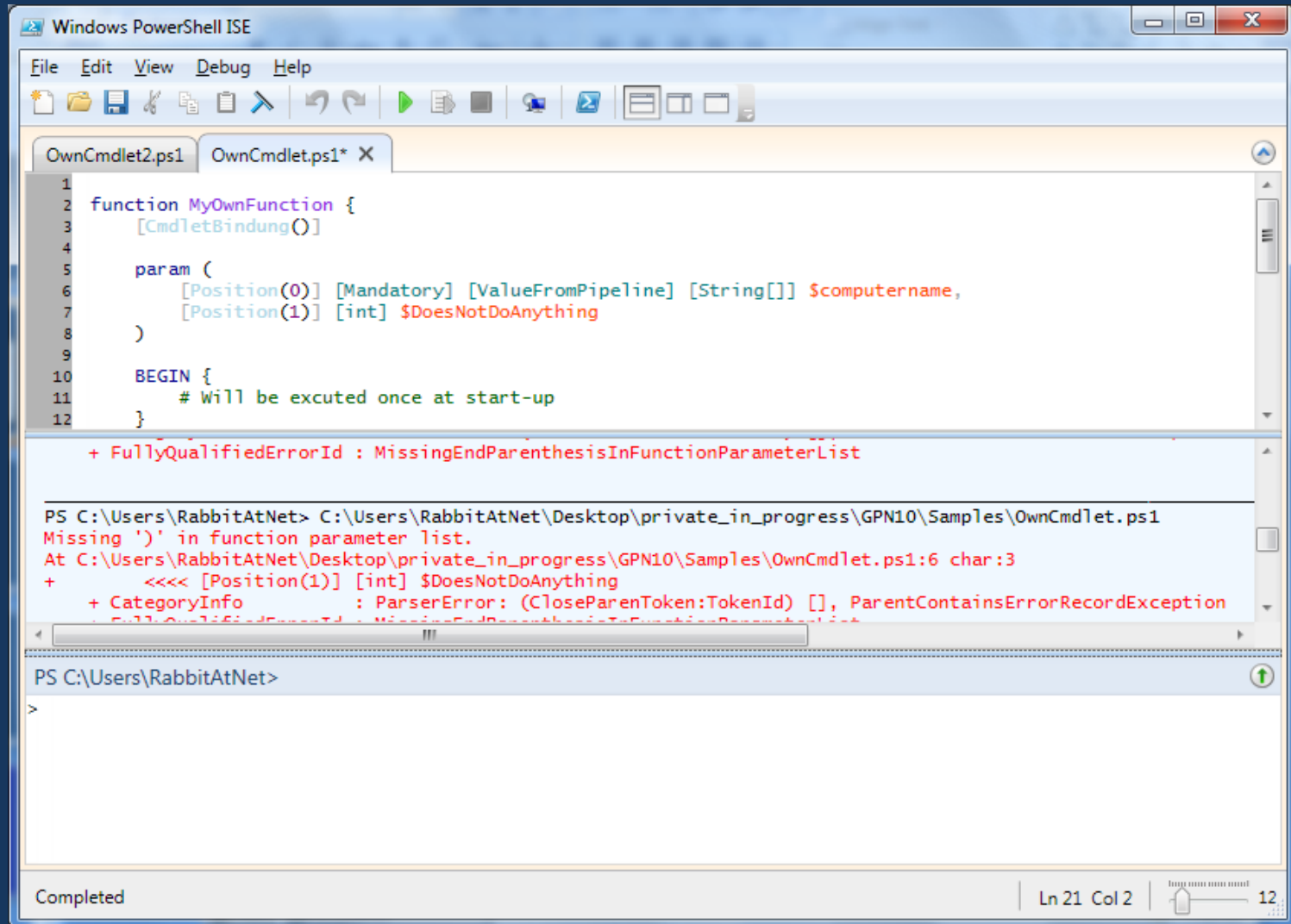
Name	Value
CLRVersion	2.0.50727.4927
BuildVersion	6.1.7600.16385
PSVersion	2.0
WSManStackVersion	2.0
PSCompatibleVersions	<1.0, 2.0>
SerializationVersion	1.1.0.1
PSRemotingProtocolVersion	2.1

PS C:\Users\RabbitAtNet> _

Commandlets

```
function MyOwnFunction {  
    [CmdletBinding()]  
  
    param (  
        [Position(0)] [Mandatory] [ValueFromPipeline] [String[]] $computername,  
        [Position(1)] [int] $DoesNotDoAnything  
    )  
  
    BEGIN {  
        # Will be excuted once at start-up  
    }  
  
    PROCESS {  
        # Will be executed for each element in the pipeline  
    }  
  
    END {  
        # Will be executed after the pipeliine has been processed  
    }  
}
```

Richtige Skripte



```
Windows PowerShell ISE
File Edit View Debug Help
OwnCmdlet2.ps1 OwnCmdlet.ps1* X
1
2 function MyOwnFunction {
3     [CmdletBinding()]
4
5     param (
6         [Position(0)] [Mandatory] [ValueFromPipeline] [String[]] $computername,
7         [Position(1)] [int] $DoesNotDoAnything
8     )
9
10    BEGIN {
11        # Will be excuted once at start-up
12    }

```

+ FullyQualifiedErrorId : MissingEndParenthesisInFunctionParameterList

```
PS C:\Users\RabbitAtNet> C:\Users\RabbitAtNet\Desktop\private_in_progress\GPN10\Samples\OwnCmdlet.ps1
Missing ')' in function parameter list.
At C:\Users\RabbitAtNet\Desktop\private_in_progress\GPN10\Samples\OwnCmdlet.ps1:6 char:3
+ <<<< [Position(1)] [int] $DoesNotDoAnything
+ CategoryInfo          : ParserError: (CloseParenToken:TokenId) [], ParentContainsErrorRecordException
+ FullyQualifiedErrorId : MissingEndParenthesisInFunctionParameterList

```

PS C:\Users\RabbitAtNet>

Completed | Ln 21 Col 2 | 12

Vision

- mit PowerShell geht alles
- Microsoft:
„Neue Produkte müssen PowerShell können!“
- Unterstützt in:
 - Betriebssysteme ab Windows XP/2003
 - IIS 7, Exchange'07, SharePoint'10 ...
 - System Center Produkte



A problem has been detected and windows has been shut down to prevent damage to your computer.

The problem seems to be caused by the following file: SPCMDCON.SYS

PAGE_FAULT_IN_NONPAGED_AREA

If this is the first time you've seen this stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to make sure any new hardware or software is properly installed. If this is a new installation, ask your hardware or software manufacturer for any windows updates you might need.

If problems continue, disable or remove any newly installed hardware or software. Disable BIOS memory options such as caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then select Safe Mode.

Technical information:

*** STOP: 0x00000050 (0xFD3094C2,0x00000001,0xFBFE7617,0x00000000)

*** SPCMDCON.SYS - Address FBFE7617 base at FBFE5000, DateStamp 3d6dd67c

Ende