

Powershell

einfach mal eine Sammlung von Codebeispielen

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Quick And Dirty

```
function OutputError([string]$errorMessage)
{
Write-Host $errorMessage -ForegroundColor Red
}

$err = Invoke-Expression "./install/sqlCEIPdisable.ps1"
if (!$err) {
# Not True, last operation failed
OutputError "Disable CEIP-Services not successfull."
return
}
Write-Host "Disable CEIP-Services successfull." -ForegroundColor Green
```

NT-Accounts

```
Write-Host "Create NT-Accounts"
```

```
$admin = @("ACCOUNTNAME")
```

```
$serviceAccounts = @("SERVICENAME")
```

```
$PlainPassword = @("PASSWORD")
```

```
$SecurePassword = $PlainPassword | ConvertTo-SecureString -AsPlainText -Force
```

```
#DE 1031
```

```
#EN 1033
```

```
$CultureID = (Get-Culture).LCID
```

```
Write-Host $CultureID
```

```
if ($CultureID -eq 1033)
```

```
{
```

```
Write-Host EN
```

```
#Admin-Accounts
```

```
for ($i=0; $i -lt $admin.length; $i++){
```

```
$rawUserName = $admin[$i]
```

```
#Benutzer erstellen
```

```
Write-Host $rawUserName
```

```
New-LocalUser -Name $rawUserName -Password $SecurePassword -FullName $rawUserName -  
Description "AdminAccount"
```

```
Set-LocalUser -Name $rawUserName -PasswordNeverExpires 1
```

```
#Gruppe setzen
```

```
Add-LocalGroupMember -Member $rawUserName -Name Users
```

```
Add-LocalGroupMember -Member $rawUserName -Name Administrators
```

```
}
```

```
#ServiceAccounts
```

```
for ($i=0; $i -lt $serviceAccounts.length; $i++){
```

```
$rawUserName = $serviceAccounts[$i]
```

```
#Benutzer erstellen
```

```
Write-Host $rawUserName
```

```
New-LocalUser -Name $rawUserName -Password $SecurePassword -FullName $rawUserName -  
Description "ServiceAccount"
```

```
Set-LocalUser -Name $rawUserName -PasswordNeverExpires 1
```

```
#Gruppe setzen
```

```
Add-LocalGroupMember -Member $rawUserName -Name Users
```

```
Add-LocalGroupMember -Member $rawUserName -Name Administrators
```

```
}
}
else
{
Write-Host DE
#Admin-Accounts
for ($i=0; $i -lt $admin.length; $i++){
$rawUserName = $admin[$i]
#Benutzer erstellen
Write-Host $rawUserName
New-LocalUser -Name $rawUserName -Password $SecurePassword -FullName $rawUserName -
Description "AdminAccount"
Set-LocalUser -Name $rawUserName -PasswordNeverExpires 1
#Gruppe setzen
Add-LocalGroupMember -Member $rawUserName -Name Benutzer
Add-LocalGroupMember -Member $rawUserName -Name Administratoren
}

#ServiceAccounts
for ($i=0; $i -lt $serviceAccounts.length; $i++){
$rawUserName = $serviceAccounts[$i]
#Benutzer erstellen
Write-Host $rawUserName
New-LocalUser -Name $rawUserName -Password $SecurePassword -FullName $rawUserName -
Description "ServiceAccount"
Set-LocalUser -Name $rawUserName -PasswordNeverExpires 1
#Gruppe setzen
Add-LocalGroupMember -Member $rawUserName -Name Benutzer
Add-LocalGroupMember -Member $rawUserName -Name Administratoren
}
}
```

Choice1

```
function OutputError([string]$errorMessage)
{
Write-Host $errorMessage -ForegroundColor Red
Read-Host 'Es ist ein Fehler aufgetreten.'
}
```

```
$title = 'something'
$question = 'Are you sure you want to proceed?'
$choices = '&Yes', '&No'
```

```
#$decision = $Host.UI.PromptForChoice($title, $question, $choices, 1)
$decision = $Host.UI.PromptForChoice('something','Are you sure you want to proceed?',$choices,
1)
if ($decision -eq 0) {
Write-Host 'confirmed'
} else {
Write-Host 'cancelled'
}
```

```
$Title = "Title"
$Info = "Pick Something!"
$options = echo Option1 Option2 Option3
$defaultchoice = 2
$selected = $host.UI.PromptForChoice($Title , $Info , $Options, $defaultchoice)
$options[$selected]
```

```
$Parent = Read-Host -prompt "Enter full parent path that will contain the new folder"
```

```
if ( ($Parent -eq $null) -or ($Parent -eq "") -or ($Parent -eq " ")) { Write-Host "You entered a blank
value: This Script is now Exiting." }
else { Write-Host "You Entered $Parent" }
```

Choice 2

```
param(  
[String] $userName,  
[String] $passWord  
)
```

```
$title = 'something'  
$question = 'Are you sure you want to proceed?'  
$choices = '&Yes', '&No'
```

```
$decision = $Host.UI.PromptForChoice($title, $question, $choices, 1)  
if ($decision -eq 0) {  
Write-Host 'confirmed'  
} else {  
Write-Host 'cancelled'  
}
```

```
function GetStringValue([String]$title)  
{  
Write-Host $title  
$inputString = Read-Host -prompt " -> Ohne Eingabe wird das Script abgebrochen!"  
if ( ($inputString -eq $null) -or ($inputString -eq "") -or ($inputString -eq " ")) { return "" }  
else { return $inputString }  
}
```

```
function EnsureStringValueOrAbort([String]$ensureValue, [String]$title )  
{  
if ( -not $ensureValue ) {  
Write-Host $title  
$ensureValue = Read-Host -prompt " -> Ohne Eingabe wird das Script abgebrochen!"  
if ( ($ensureValue -eq $null) -or ($ensureValue -eq "") -or ($ensureValue -eq " ")) {  
Write-Host "cancelled"  
exit 1  
}  
else { return $ensureValue }  
}  
}
```

```
function EnsureStringValueOrDefault([String]$ensureValue, [String]$defaultValue, [String]$title)  
{
```

```
if ( -not $ensureValue ) {  
Write-Host $title  
$ensureValue = Read-Host -prompt " -> Ohne Eingabe wird der Defaultwert verwenden  
($defaultValue)!"  
if (($ensureValue -eq $null) -or ($ensureValue -eq "") -or ($ensureValue -eq " ")) { return  
$defaultValue }  
else { return $ensureValue }  
if ( -not $ensureValue ) {  
Write-Host "cancelled"  
exit 1}# Kein Wert also doch abbrechen  
}  
}
```

```
$passWord = EnsureStringValueOrAbort $passWord "Bitte geben Sie ein Passwort an."  
Write-Host $passWord
```

```
$userName = EnsureStringValueOrDefault $userName "sa" "Bitte geben Sie einen Benutzernamen  
an."  
Write-Host $userName
```

InputSample

```
param(
[Parameter(Mandatory=$true, Position=0)] [String] $userName,
[Parameter(Mandatory=$true, Position=1)] [String] $passWord
)

exit

function GetStringValue([String]$title)
{
Write-Host $title
$inputString = Read-Host -prompt " -> Ohne Eingabe wird das Script abgebrochen!"
if ( ($inputString -eq $null) -or ($inputString -eq "") -or ($inputString -eq " ")) { return "" }
else { return $inputString }
}

function EnsureStringValueOrAbort([String]$ensureValue, [String]$title )
{
if ( -not $ensureValue ) {
Write-Host $title
$ensureValue = Read-Host -prompt " -> Ohne Eingabe wird das Script abgebrochen!"
if ( ($ensureValue -eq $null) -or ($ensureValue -eq "") -or ($ensureValue -eq " ")) {
Write-Host "cancelled"
exit 1
}
else { return $ensureValue }
}
}

function EnsureStringValueOrDefault
{
Param
(
[Parameter(Mandatory=$true, Position=0)]
[string] $EnsureValue,
[Parameter(Mandatory=$true, Position=1)]
[string] $DefaultValue,
[Parameter(Mandatory=$true, Position=2)]
[string] $Title
)
Write-Host "`$EnsureValue value: $EnsureValue -> ` $ID DefaultValue: $DefaultValue -> ` $Title
```

```
value: $Title"  
}
```

```
function Get-Something  
{  
    Param  
    (  
        [Parameter(Mandatory=$true, Position=0)]  
        [string] $Name,  
        [Parameter(Mandatory=$true, Position=1)]  
        [int] $Id  
    )  
    Write-Host "`$Name value: $Name -> ` $ID value: $Id"  
  
}
```

```
Get-Something -Id 34 -Name "Blah1"  
Get-Something "Blah" 345
```

```
Function Test([string]$arg1, [string]$arg2)  
{  
    Write-Host "`$arg1 value: $arg1"  
    Write-Host "`$arg2 value: $arg2"  
    return "Hello"  
}
```

```
$x = Test "ABC" "DEF"  
Write-Host $x
```

```
Write-Host "before EnsureStringValueOrDefault"  
$passWord = EnsureStringValueOrDefault "nunun" "hallo" "Bitte geben Sie ein Passwort an."  
Write-Host "after EnsureStringValueOrDefault"  
Write-Host $userName
```

```
exit  
Write-Host "before"  
$userName = EnsureStringValueOrAbort($userName, "Bitte geben Sie einen Benutzernamen an.")  
Write-Host "after"  
Write-Host $userName
```

Folder

#Erstellt Unterordner im aktuellen Verzeichnis

param(

[String] \$folderName

)

\$exitCode = ":q"

if (-not \$folderName) {

Write-Host "Geben sie den Verzeichnisnamen an."

while (-not \$folderName) {

\$folderName = Read-Host "Verzeichnis? (\$exitCode = Exit)"

}

}

else

{

Write-Host Parameter: \$folderName

return 1

}

if (\$folderName -eq \$exitCode){return -1}

\$currentfolder = Get-Location

#Write-Host \$currentfolder

\$PATH = "\$currentfolder\\$folderName"

if (!(Test-Path \$PATH)) {New-Item -Path \$PATH -ItemType Directory}

Join-Path -Path "path" -ChildPath "childpath"

path\childpath

[IO.Path]::Combine('C:', 'Foo', 'Bar')

Test-Path

if(![System.IO.File]::Exists(\$path)){

file with path \$path doesn't exist

}

WARNUNG: Es kann kein Download von URI

Lösung

Eine funktionierende Internetverbindung vorausgesetzt, liegt es vermutlich an dem „Upgrade“ des Azureedges, der den Lookup-Provider stellt (onegetcdn.azureedge.net/providers). Der Endpunkt lässt seit etwa April 2020 keine TLS1.0 Verbindungen mehr zu und wurde auf „TLS1.2 min“ konfiguriert. Die PowerShell (<14393.3474) spricht per Default aber nur TLS1.1.

Dieser PS-Befehl stellt die PowerShell ebenfalls auf 1.2 um:

```
[Net.ServicePointManager]::SecurityProtocol=[Net.SecurityProtocolType]::Tls12
```