


<b>POLITECHNIKA WROCŁAWSKA</b>  Wydział Informatyki i Telekomunikacji	Wydział: Informatyki i Telekomunikacji Kierunek: Cyberbezpieczeństwo Rok Akademicki: 2024/2025 Rok studiów, semestr: <i>2024/2025, 2</i> Grupa: <i>1</i>
<b>Programowanie skryptowe - Laboratorium 7</b>	
Prowadzący: mgr inż. Karolina Pfajfer	Autor: 1. <i>Jan Wieczorek, 283795</i>
Data wykonania ćwiczenia: <i>14.04.2025</i>	
Data oddania sprawozdania: <i>15.04.2025</i>	

## Zadanie 1 kod

```
<#
.SYNOPSIS
Monitors a certain folder, moves txt files to a different one

.DESCRIPTION
Requires no input. The code is in Polish. Change variables to desired directories.

.OUTPUTS
It outputs whether a destination folder exists, or whether not and that its been created. Then it confirms that a file has been moved.

.EXAMPLE
PS> zadaniel.ps1

#>

#zmienna folderu monitorowanego
$monitoreddir = "/home/janyaskali/laby7/testfolder"

#zmienna folderu docelowego
$destdir = "/home/janyaskali/laby7/filesfolder"

#sprawdzamy czy folder istnieje
if (-not (Test-Path -Path $destdir)){
    New-Item -Type Directory -Path $destdir
    Write-Host "utworzono folder $destdir"
}
else{
    Write-Host "folder $destdir już istnieje"
}

#wieczna pętla monitorująca
while($true) {
    $files = Get-ChildItem -Path $monitoreddir -Filter *.txt

    #pętla która przenosi pliki do nowego folderu, iterujemy po plikach
    foreach ($file in $files) {
        $filepath = $file.FullName
        $destfile = Join-Path -Path $destdir -ChildPath $file.Name
```

```

$destfile = Join-Path -Path $destdir -ChildPath $file.Name

Move-Item -Path $filepath -Destination $destfile
Write-Host "Plik $($file.Name) został przeniesiony do $destdir"
}

#sprawdzammy co 5 sekund
Start-Sleep -Seconds 5

```

It appears that an unexpected error occurred. Please try to contact our support team.

Error code: 6002

## Wynik w terminalu

```

(janyskali@kali)-[/home/janyskali/laby7]
PS> ls
filesfolder testfolder zadanie1.ps1 zadanie1.ps1.save

(janyskali@kali)-[/home/janyskali/laby7]
PS> cd testfolder

(janyskali@kali)-[/home/janyskali/laby7/testfolder]
PS> ls
pliczek.txt

(janyskali@kali)-[/home/janyskali/laby7/testfolder]
PS> cd ..

(janyskali@kali)-[/home/janyskali/laby7]
PS> pwsh zadanie1.ps1
folder /home/janyskali/laby7/filesfolder już istnieje
Plik pliczek.txt został przeniesiony do /home/janyskali/laby7/filesfolder
^C

(janyskali@kali)-[/home/janyskali/laby7]
PS> cd testfolder

(janyskali@kali)-[/home/janyskali/laby7/testfolder]
PS> l
l: The term 'l' is not recognized as a name of a cmdlet, function, script file, or executable program.
Check the spelling of the name, or if a path was included, verify that the path is correct and try again.

(janyskali@kali)-[/home/janyskali/laby7/testfolder]
PS> ls

(janyskali@kali)-[/home/janyskali/laby7/testfolder]
PS> cd ..

(janyskali@kali)-[/home/janyskali/laby7]
PS> ls
filesfolder testfolder zadanie1.ps1 zadanie1.ps1.save

(janyskali@kali)-[/home/janyskali/laby7]
PS> cd filesfolder

(janyskali@kali)-[/home/janyskali/laby7/filesfolder]
PS> ls
pliczek.txt plik.txt experience

(janyskali@kali)-[/home/janyskali/laby7/filesfolder]
PS>

```

## Get-Help

```

(janyskali@kali)-[/home/janyskali/laby7]
PS> Get-Help /home/janyskali/laby7/zadanie1.ps1

```

**NAME**

/home/janyskali/laby7/zadanie1.ps1

**SYNOPSIS**

Monitors a certain folder, moves txt files to a different one

**SYNTAX**

/home/janyskali/laby7/zadanie1.ps1 [<CommonParameters>]

**DESCRIPTION**

Requires no input. The code is in Polish. Change variables to desired directories.

**RELATED LINKS**

**REMARKS**

To see the examples, type: "Get-Help /home/janyskali/laby7/zadanie1.ps1 -Examples"  
 For more information, type: "Get-Help /home/janyskali/laby7/zadanie1.ps1 -Detailed"  
 For technical information, type: "Get-Help /home/janyskali/laby7/zadanie1.ps1 -Full"

Jeśli chcesz  
zastosować

Oops, Some  
It appears th  
inconvenien  
free to conta  
Error code: 6002

## Zadanie 2 kod

```
<#
.SYNOPSIS
Checks whether the file is safe in the VirusTotal database

.DESCRPTION
It sends a request over to Virustotal, which checks the files hash. The script interprets the response and prints out whether the file is safe or not.

.PARAMETER
The script currently takes no parameters, but it could be easily adjusted to do so. It could, for example, require the api key and the path of the desired file.

.EXAMPLE
PS> zadanie2.ps1

.NOTES
A VirusTotal account is required to generate an api key.
#>
```

```
#checking and printing the file hash
$path = "/home/janyskali/Downloads/eicar-test.txt"
$hash = (Get-FileHash -Path $path -Algorithm SHA256).Hash
Write-Host "$hash"

#variables required to send the request
$key = "71010583091c260ec3e262c374cbee520ad0a5bc93e60757145f361fabf1c8f4"
$vturl = "https://www.virustotal.com/api/v3/files/$hash"

$headers = @{"x-apikey" = $key}

#we send a request over to virustotal

$req = Invoke-RestMethod -Uri $vturl -Headers $headers -Method GET

$stats = $req.data.attributes.last_analysis_stats

if ($stats.malicious -gt 0 -or $stats.suspicious -gt 0){
    Write-Host "The file is not safe"
}
else{
    Write-Host "The file is either safe or no in the VT database"
}
```

## Zadanie 2 wynik:

```
(janyskali@kali)-[/home/janyskali/laby7]
PS> pwsh zadanie2.ps1
275A021BBFB6489E54D471899F7DB9D1663FC695EC2FE2A2C4538AABF651FD0F
The file is not safe
```