

# Windows Part

Use: Windows TaskScheduler, PowerShell, \*.ps1 script

Code:

```
Param (
[Parameter (Mandatory=$true, Position=1)]
[string]$path
)

function GetCurretnPath ($filename) {
    $filebase = Join-Path $PSScriptRoot $filename
    return $filebase
}

function GetDate () {
    $date = Get-Date -Format "HH:mm:ss dd/MM/yyyy"
    return "$date"
}

function ZipFiles( $filename, $sourcedir) {
    Add-Type -assembly "system.io.compression.filesystem"
    # Compress-Archive -Path $sourcedir -DestinationPath "$filename.zip"
    [IO.Compression.ZipFile]::CreateFromDirectory($filename, "$filename.zip")
}

function LogFile () {
    $date = GetDate
    $curPath = GetCurretnPath "log.txt"
    if ( -Not [System.IO.File]::Exists($curPath)) {
        New-Item -Path . -Name "log.txt" -ItemType "file" -
Value "$date - Log file was created!`r`n"
    }
}

function Main () {
    LogFile

    $PathInfo = Get-ChildItem -Path $path -exclude *.zip -ErrorAction Stop
    $accumulator = 0
    foreach ($file in $PathInfo) {
        $date = GetDate
        if ([System.IO.File]::Exists("$file.zip")) {
            $accumulator++
        } else {
            ZipFiles $file $path
            Add-Content log.txt -value "$date - $file.zip archive was created!"
        }
    }
}
```

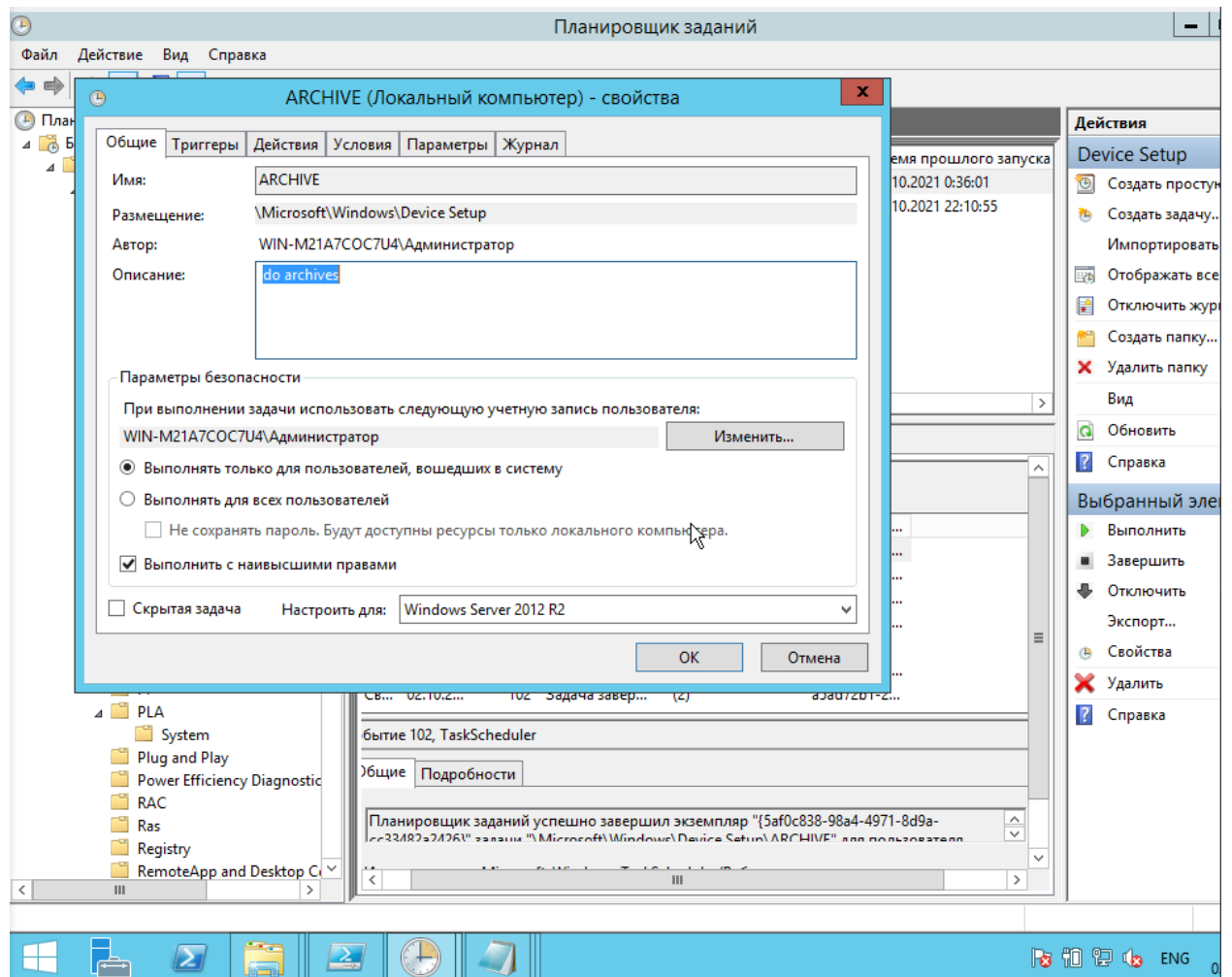
```

    if ($accumulator -ne 0) {
        Add-Content log.txt -
value "$date - $accumulator files was skipped during dir scan."
    }
}

try {
    Main -ErrorAction
}
catch {
    $date = GetDate
    $err = $Error[0]
    Add-Content log.txt -value "$date - $err"
}

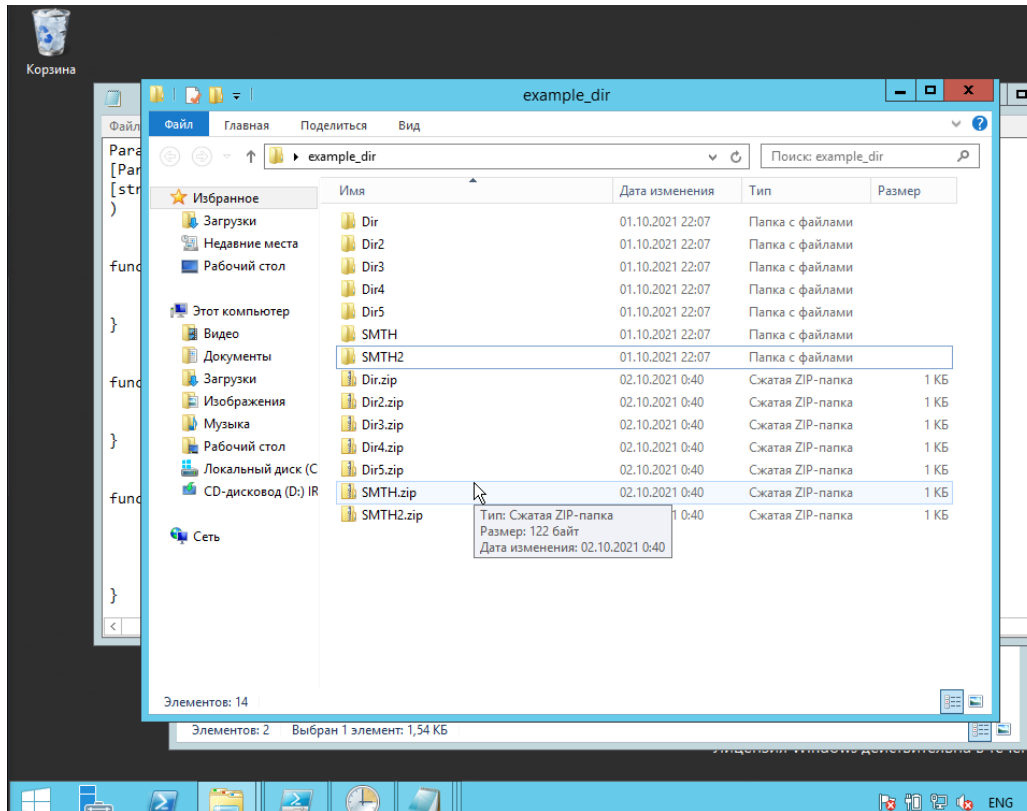
```

### TaskScheduler settings:

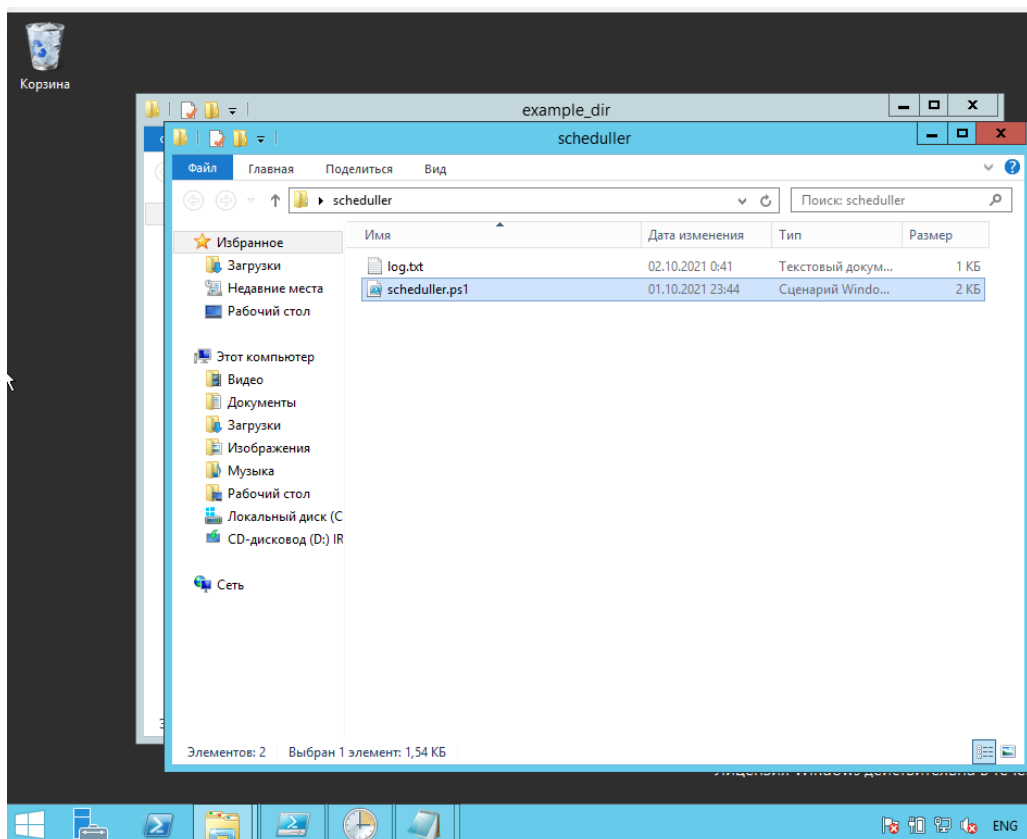




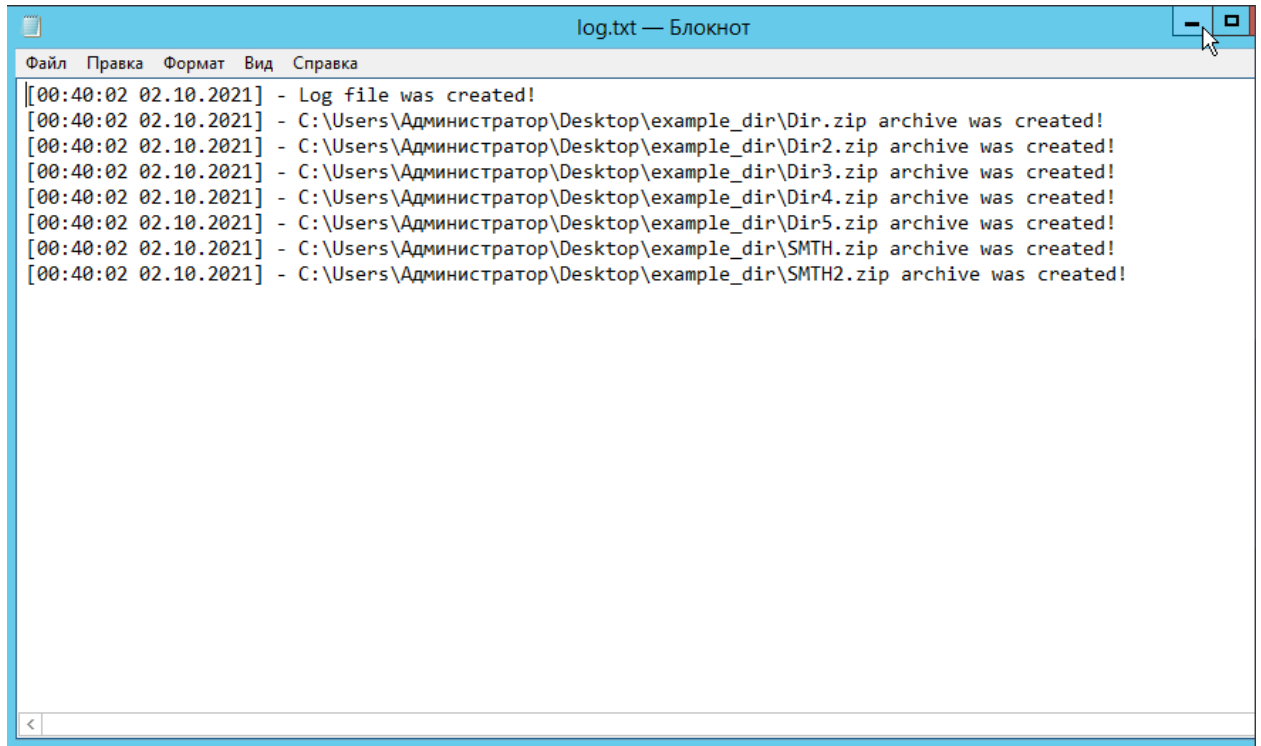
Dirs: 1 – dir with archives and archived dirs(files)



2-dir with script and log file(which created by script automatically).



Example of log.txt:



## Linux part:

For start run commands which were written down below:

**sudo apt-get install zip**

**sudo apt-get install cron**

Use: Linux, Cron, zip

Code:

```
LOG_FILE_PATH="./log.txt"

getCurrentDate() {
    echo "$(date +%D) - $(date +%X)"
}

log() {
    if [ $# -gt 1 ]; then
        echo "Incorrect parameters passed"
    else
        if [ ! -f "$LOG_FILE_PATH" ]; then
            echo "touch $LOG_FILE_PATH"
            echo "[$(getCurrentDate)] - Log file has been created because it is not existed before" >> "$LOG_FILE_PATH"
            echo "[$(getCurrentDate)] - $1" >> "$LOG_FILE_PATH"
        else
            echo "[$(getCurrentDate)] - $1" >> "$LOG_FILE_PATH"
        fi
    fi
}
```

```

fi
}

check_script_initial_arguments() {
    if [ $# -eq 0 ]; then
        echo "ERROR: No path to archive"
        $(log "Executed with no arguments")
        exit 1
    else
        $(log "Executed with argument path=$1")
    fi
}

check_is_folder_exists() {
    if [ ! -d "$1" ]; then
        echo "Folder is not found"
        $(log "Folder $1 is not found, script killed")
        exit 1
    fi
}

create_archive() {
    $(log "Starting archiving for path=$1")
    zip -r "$1/../archive.zip" $1
    $(log "Folder with path=$1 archived successfully")
}

main() {
    check_script_initial_arguments $1
    check_is_folder_exists $1

    create_archive $1
    exit 0
}

(main $1)

```

Use Cron to run:

```
0 0 * * * /OS/schedule/bash.sh /OS/schedule/example_folder
```

Adjust launch of the script in advance:

```
chmod +x /OS/schedule/bash.sh
```

Log.txt file after running script:

```
[10/03/21 - 02:50:23 PM] - Executed with argument path=example_folder/  
[10/03/21 - 02:50:23 PM] - Starting archiving for path=example_folder/  
[10/03/21 - 02:50:23 PM] - Folder with path=example_folder/ archived successfully  
[10/03/21 - 02:51:04 PM] - Executed with argument path=example_folder/  
[10/03/21 - 02:51:04 PM] - Starting archiving for path=example_folder/  
[10/03/21 - 02:51:04 PM] - Folder with path=example_folder/ archived successfully
```

Directory with created archive:

```
root@185-71:~/OS/schedulle# ls -la  
total 512  
drwxr-xr-x 3 root root 4096 Oct 3 14:57 .  
drwxr-xr-x 7 root root 4096 Oct 3 14:51 ..  
-rw-r--r-- 1 root root 1376 Oct 3 14:55 archive.zip  
-rw-r--r-- 1 root root 1087 Oct 3 14:51 bash.sh  
drwxr-xr-x 5 root root 4096 Oct 3 14:48 example_folder  
-rw-r--r-- 1 root root 2702 Oct 3 14:51 log.txt  
-rw-r--r-- 1 root root 1454 Oct 3 14:48 schedulle_for_ps4.ps1  
-rw-r--r-- 1 root root 1309 Oct 3 14:48 schedulle.ps1
```