

# Weekly Backup Script

This article explains how to create a Bash script for performing weekly backups of a folder to an external SMB share, naming the backups with the date, and ensuring that old files are not overwritten.

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# Create the Backup Script

## Prerequisites

Before setting up the backup script, ensure you have the following:

- The source directory you want to back up.
- Access to an SMB share where you want to store the backups.
- SMB credentials (username and password) for authentication.

## Create the Backup Script

You can create a Bash script for this purpose. Save the following code in a file, e.g.,

`weekly_backup.sh`:

```
#!/bin/bash

# Source directory to be backed up
source_dir="/path/to/source_directory"

# SMB share URL where you want to store the backups
smb_share="smb://username@hostname/share_name"

# Destination directory on the SMB share
smb_dir="/path/to/smb/directory"

# Define a timestamp for the current date
timestamp=$(date "+%Y%m%d")

# Set the backup directory name with the timestamp
backup_dir="${smb_dir}/backup_${timestamp}"

# Check if the destination directory exists, and create it if not
if ! smbclient -L "${smb_share}" -U username%password >/dev/null 2>&1; then
    echo "Error: Unable to access the SMB share. Please check the SMB share URL, username, and password."
```

```
        exit 1
    fi

    # Perform the backup using rsync
    rsync -avz --no-links --exclude-from=/path/to/exclude_list.txt "$source_dir" "$backup_dir"

    # Check if the rsync command was successful
    if [ $? -eq 0 ]; then
        echo "Backup completed successfully."
    else
        echo "Backup failed."
        exit 1
    fi

    exit 0
```

Replace the placeholders in the script with your actual values:

- `/path/to/source_directory`: The directory you want to back up.
- `smb://username@hostname/share_name`: The SMB share URL where you want to store the backups.
- `/path/to/smb/directory`: The destination directory on the SMB share.
- `username` and `password`: Your SMB credentials.
- `/path/to/exclude_list.txt`: Optionally, you can create an exclude list file to specify files or directories to exclude from the backup.

Make the script executable with the following command:

```
chmod +x weekly_backup.sh
```

## Schedule the Script

To run the script automatically on a weekly basis, use a scheduling tool like `cron`. Edit your crontab using the `crontab -e` command and add a line like this to run the script every Sunday at midnight:

```
0 0 * * 0 /path/to/weekly_backup.sh
```

This schedules the script to run every Sunday at midnight, creating a new backup directory with a timestamp to avoid overwriting old backups.

Now, you have a weekly backup script in place to safeguard your data on an SMB share.