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**Backup Script Setup**

**Objective**

The purpose of this paper is to streamline the process of automating backups from a source directory to a destination directory on a Linux system by explaining how to set up a backup script using a bash script.

**Requirements:**

* A basic understanding of the Linux command line
* Sudo (administrative user) privileges
* Linux system access (Centos)

**Instructions**

1. Create the Backup Script

1.1. Open a terminal in Centos

1.2. Create a new bash script file for the backup script. By typing the command below in your terminal:

sudo nano /root/Desktop/backupscript21

1.3. Add the following content to the script:

#!/bin/bash

# Define the source and destination directories

source\_dir="/root/Desktop/source21"

destination\_dir="/root/Desktop/backup21"

# Create a timestamp for the backup file

timestamp=$(date +"%Y%m%d\_%H%M%S")

# Create a tar archive of the source directory

tar -czf "$destination\_dir/backup\_$timestamp.tar.gz" "$source\_dir"

1.4. Save and exit the editor. By Typing Crt+O and Crt+x

1.5. Make the script executable by typing the command below in your terminal

sudo chmod +x / root/Desktop/backupscript21.sh

2. Schedule the Backup

2.1. Edit the crontab file to schedule the backup script:

crontab -e

2.2. Add the following line to schedule the backup script to run daily at 12:00 AM:

0 0 \* \* \* /root/Desktop/backupscript.sh

2.3. Save and exit the crontab editor .

by pressing on ESC and :wq and press enter

3. Create Source and Destination Directories

3.1. Create a source directory for the backup:

mkdir /root/Desktop/source21

3.2. Create a destination directory for the backup:

mkdir /root/Desktop/backup21

4. Execute the Backup Script

4.1. Run the backup script manually to test it:

./root/Desktop/backupscript21.sh

4.2. Check the destination directory for the backup files:

Ls /root/Desktop/backup21

**Conclusion**

You've successfully set up a backup script on your Linux system to automate the process of backing up content from a source directory to a specified destination directory. Every day at 12:00 AM, the script is set to run and create a tar archive of the source directory inside the destination directory.

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This document offers a detailed walkthrough for establishing the backup script, setting up a daily schedule using cron, and generating the required directories.