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CYSE 270

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Lab #9

CYSE 270: Linux System for Cybersecurity

**Assignment-9**

**Task A - Backup your system (Using crontab) [100 points]**

**Scenario:** Performing system backup can be time-consuming, and the process is often overlooked. For this scenario,

1. (10 Points) Create a new user **Alice (with home directory**) and
2. (50 Points) Write a shell script that backups Alice’s home directory by creating a tar file (tape archive), using the following steps:

a.

* + - Take 2 inputs with their values- your **MIDAS** name and **current date (for example, midas=svatsa)**.
    - Create a variable named as **filename** that should be assigned the value as **MIDAS-date** (example output after executing the script would be like, svatsa2021.3.17-01.16.430).
    - Using **tar** command, create a tape archive for Alice’s home directory (/home/Alice) and the **filename** created above (in step-2-ii). (Please learn about tar command in Linux for its usage)
  1. Move the tape archive file/tar file (created in step 2-iii) to /var/backups/ directory using correct command in linux.
  2. To optimize the disk usage, pick a compression algorithm (bz2, gzip, or xv) to compress the tar file you created in /var/backups/ in the previous step-2b.

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1. (30 Points) **Create a crontab file to keep the scheduled task running for 3 minutes**, then **check the contents in the /var/backups** directory. Your output should be look similar to the following:

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1. (10 Points) **Cancel** the crontab jobs.

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