

Bash Shell Scripting

Scheduling jobs with at and crontab
Part-1

```
#!/bin/bash
```

Learn how to automate common tasks using bash shell scripting

Scheduling jobs with at and crontab:

- at command is very useful for scheduling one time tasks.
- Example:
 - Shutdown system at the specified time
 - Taking a one-time backup.
- Syntax:
 - echo "bash backup.sh" | at 9:00 AM
 - Or
 - Run first: **at 9:00 AM** then enter and give the **cmd** or **script** to run and press ctrl+D.
- **Commands used with at:**
 - at : execute commands at specified time.
 - atq : lists the pending jobs of users.
 - atrm : delete jobs by their job number.

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Examples of at command:

- Ex-1: Schedule task at coming 10:00 AM.
 - at 10:00 AM
- Ex-2: Schedule task at 10:00 AM on coming Sunday.
 - at 10:00 AM Sun
- Ex-3: Schedule task at 10:00 AM on coming 25'th July.
 - at 10:00 AM July 25
- Ex-4: Schedule task at 10:00 AM on coming 22'nd June 2025.
 - at 10:00 AM 6/22/2015
 - at 10:00 AM 6.22.2015
- Ex-5: Schedule task at 10:00 AM on the same date at next month.
 - at 10:00 AM next month
- Ex-6: Schedule task at 10:00 AM tomorrow.
 - at 10:00 AM tomorrow

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Examples of at command...

- Ex-7: Schedule task to execute just after 1 hour.
 - **at now + 1 hour**
- Ex-8: Schedule task to execute just after 30 minutes.
 - **at now + 30 minutes**
- Ex-9: Schedule task to execute just after 1 and 2 weeks.
 - **at now + 1 week**
 - **at now + 2 weeks**
- Ex-10: Schedule task to execute just after 1 and 2 years.
 - **at now + 1 year**
 - **at now + 2 years**
- Ex-1: Schedule task to execute at midnight.
 - **at midnight**

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Thank you