Scheduling Repeated Jobs with Cron

What You Will Learn

- Cron service
- Crontab format
- Crontab command

Cron

- cron A time based job scheduling service.
- crontab A program to create, read, update, and delete your job schedules.
- Use cron to schedule and automate tasks.

Crontab Format

```
* * * * command
| | | +-- Day of the Week (0-6)
| | | +--- Month of the Year (1-12)
| +---- Day of the Month (1-31)
                              (0-23)
 +---- Hour
 ----- Minute
                              (0-59)
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```

Example Crontab Entry

```
# Run every Monday at 07:00.
0 7 * * 1 /opt/sales/bin/weekly-report
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```

Redirecting Output

```
# Run at 02:00 every day and
# send output to a log file.
0 2 * * * /root/backupdb > /tmp/db.log 2>&1
```

Example Crontab Entries

Run every 30 minutes.

```
0,30 * * * /opt/acme/bin/half-hour-check
# Another way to do the same thing.
*/2 * * * /opt/acme/bin/half-hour-check
# Run for the first 5 minutes of the hour
0-4 * * * /opt/acme/bin/first-five-mins
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```

Crontab Shortcuts

@hourly

```
0 0 1 1 *
@yearly
@annually
                     0 0 1 * *
@monthly
                     0 0 * * 0
@weekly
                     0 0 * * *
@daily
                     0 0 * * *
@midnight
```

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* * * *

Using the Crontab Command

crontab file Install a new crontab from file.

crontab -1 List your cron jobs.

crontab -e Edit your cron jobs.

crontab -r Remove all of your cron jobs.

Demo - crontab

Summary

- The cron service runs scheduled jobs
- Use the crontab command to schedule jobs