Oozie frequency

1. Coordinator Cron Scheduling Various Cron syntaxes exist and unix cron syntax is only one of them. ● Oozie cron has 5 fields since oozie operates on per minute base. ● Weekday starts at 2 which is Monday ● Complicated Overflowing ranges are discouraged to use
2. Use cases ● A job running at 9am every weekday ○ frequency="0 9 ? \* 2-6" or "0 9 \* \* MON-FRI" ○ Notice in the first expression, we use 2-6 instead of 1-5 ● A job running every 15 minutes from 9- 11am every day ○ frequency="0/15 9,10 \* \* \*" or "0,15,30,45 9,10 \* \* \*" ○ Notice hour field should be 9,10 instead of 9-11
3. Use cases continued ● A job running at 9am of every last Friday of the month ○ frequency = "0 9 ? \* 6L" ● A job running at 9am of every 2nd Friday of the month ○ frequency = "0 9 \* \* 6#2"
4. General mistakes ● Oozie timezone by default is UTC. So your cron syntax should calculate this timezone differences ○ If you live in LA and want to run a job at 9am every day: ■ frequency = "0 9 \* \* \*" is wrong!!! ■ frequency = "0 16 \* \* \*" is the right one ○ We understand the inconvenience, but that’s the oozie server timezone.
5. General mistakes continued ● Day of month and day of week are union, not intersection ○ "0 10 12-18 \* 2-6" DOES NOT MEAN running a job at 10 am on weekdays between 12 and 18th of the month ○ It MEANS running a job at 10 am on weekdays AND on 12-18th of the month. Only one of the two needs to be satisfied for the job to fire.
6. General Mistakes Continued ● An overflow range goes wild ○ "0 23-1 \* \* \*" is reasonable ○ "0 23-1 \* DEC-MAR FRI-MON". What does this mean? ■ Cron can produce many different edge cases in the above scenario. Do it at your own peril!