Availability

A web service is available 98% of the time:

- 1. Based on a full year, how many hours is the service expected to be unavailable?
- 2. Which availability promises do you get from services you use? What about Netflix, Gmail, Online Bank, ...?

Total hours in a year: 365 days/year * 24 hours/day = 8,760 hours/year

Unavailability = 0.02×8,760 hours/year = 175.2 hours/year

That would be about ~7.2 days

Netflix:

- Availability: Generally aims for over 99.99% availability.
- Unavailability: That would be a downtime of ~53 minutes per year.

Gmail (Google Workspace):

- Availability: Google promises 99.9% uptime for Google Workspace services, including Gmail.
- Unavailability: That would be a downtime of ~8 hours 45 minutes per year.

Online Banking:

- Availability: Varies by institution but often around 99.9%.
- Unavailability: That would be a downtime of ~8 hours 45 minutes per year.

These availability percentages show that high-availability services like Netflix and Gmail are designed to minimize downtime, reflecting their critical role in providing reliable access to users.