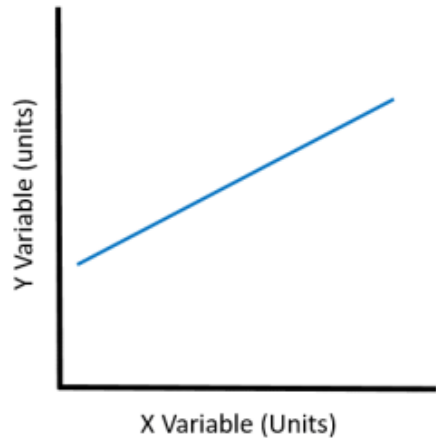
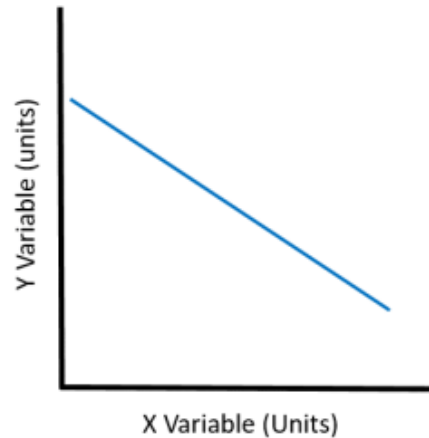


Why Line Graphs

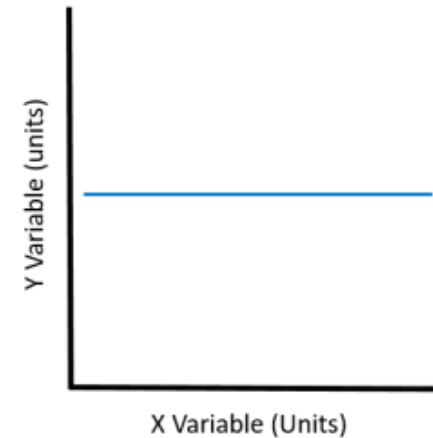
- Typically used to visualize univariate or bivariate data
- Showing Trends



Positive trend



Negative trend



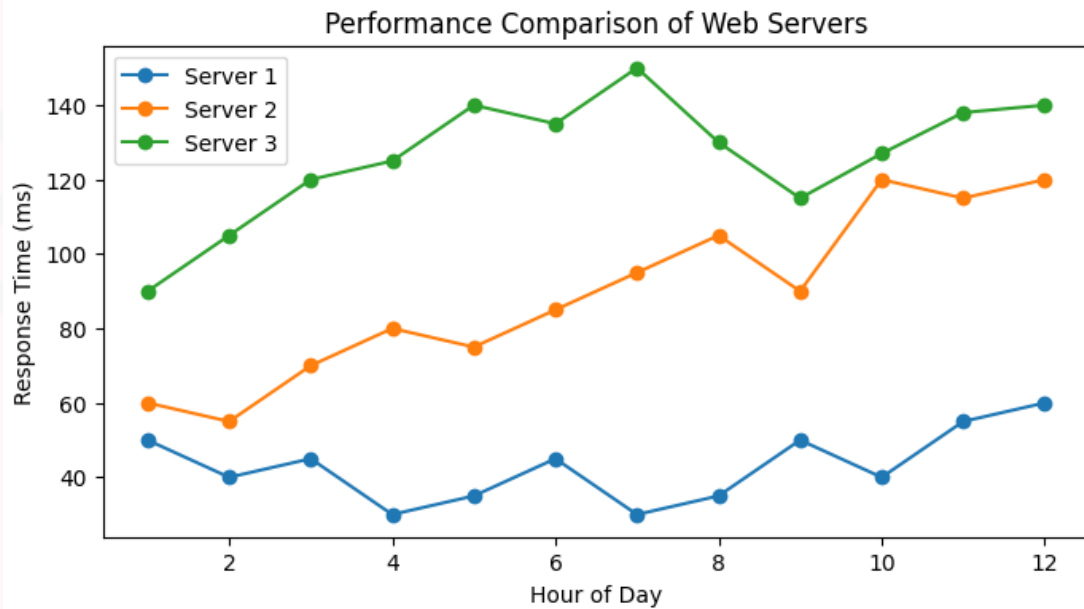
No trend



Why Line Graphs

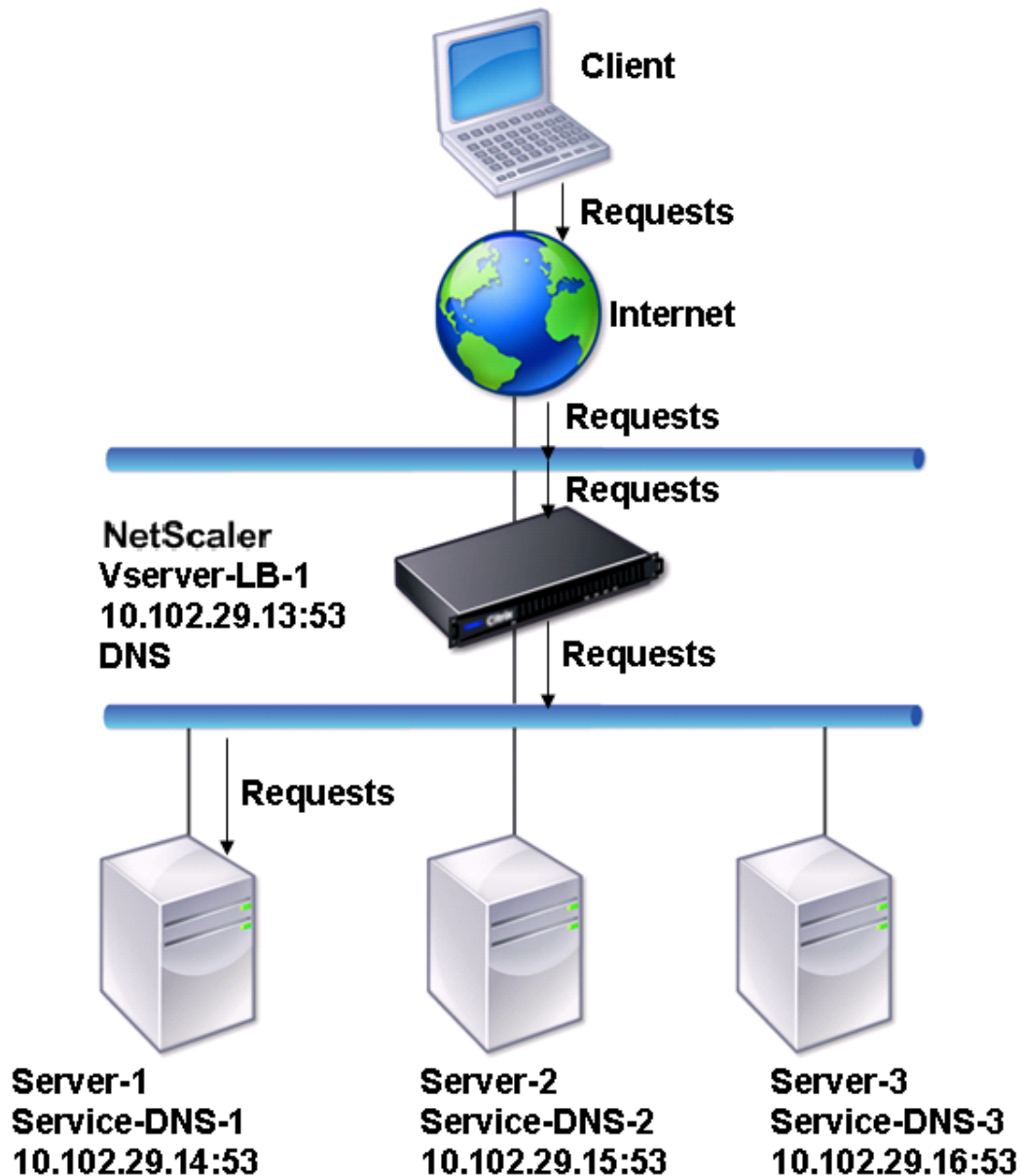
- Comparing Multiple Data Series

- Highlighting Patterns and Anomalies



Line Graph / Line Plots / Line Charts

- Used to displays the data using a series of data points connected by straight lines
- Commonly used to represent data that changes over a continuous interval, such as
 - ✓ time
 - ✓ temperature
 - ✓ distance or
 - ✓ any other continuous variable
- Particularly effective for showing trends and patterns in data



```
hours = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
```

```
response_times_1 = [50, 40, 45, 30, 35, 45, 30, 35, 50, 40, 55, 60]
```

```
response_times_2 = [60, 55, 70, 80, 75, 85, 95, 105, 90, 120, 115, 120]
```

```
response_times_3 = [90, 105, 120, 125, 140, 135, 150, 130, 115, 127, 138, 140]
```