



System Design Lecture Nikhil Lohia

Nikhil Lohia →

Beginner → Intermediate → Expert.

What is Scaling → *A way to expand and accomodate more customers.*



Horizontal scaling.

Creating a Basic Application →



* Cost do not scale linearly

$$\begin{array}{l} 4\text{TB RAM } \times \$ \\ 4\text{TB RAM } \times \$ \\ \hline 2 \times \$ \end{array}$$

$$8\text{TB RAM } \rightarrow 3 \times$$

cost of (2) 4 TB RAM < cost of (1) 8 TB RAM
that's why we use horizontal scaling



Course structure →

- Basic of System Design
- going overall terminology used.
- start with Book design.
- Understand each component and use cases
- explore some complex design.
- look at some real designs too.

