Certainly! **Distributed system design** refers to creating software systems that consist of multiple interconnected components running on different machines, working together to achieve a common goal. [These systems are designed to handle scalability, fault tolerance, and efficient communication across a network1](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/).

Here are **five free resources** where you can learn more about distributed systems:

1. [**The Design Patterns for Distributed Systems Handbook**](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/): This comprehensive guide covers key concepts, challenges, and design patterns for distributed systems. [It’s a great starting point for understanding the topic1](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/).
2. [**Distributed Systems for Practitioners**](https://www.educative.io/courses/distributed-systems-practitioners): An interactive course that delves into complexities, algorithms, and real-life examples of distributed systems. [It’s beginner-friendly and provides practical insights](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/)[2](https://www.educative.io/courses/distributed-systems-practitioners).
3. [**Distributed Systems Course**](https://www.distributedsystemscourse.com/): A resource that covers fundamental concepts, design problems, and failure handling in distributed systems. [It’s a valuable learning platform with video lectures and slides](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/)[3](https://www.distributedsystemscourse.com/).
4. [**Distributed Systems Tutorial on GeeksforGeeks**](https://www.geeksforgeeks.org/distributed-systems-tutorial/): GeeksforGeeks offers a tutorial covering communication, distributed file systems, and other essential topics related to distributed systems. [It’s a great place to explore various aspects](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/)[4](https://www.geeksforgeeks.org/distributed-systems-tutorial/).
5. [**Fundamentals of Distributed Systems**](https://www.baeldung.com/cs/distributed-systems-guide): This article provides an overview of distributed systems’ characteristics, challenges, and solutions. [It also highlights popular distributed systems across different categories](https://www.freecodecamp.org/news/design-patterns-for-distributed-systems/)[5](https://www.baeldung.com/cs/distributed-systems-guide).

Feel free to explore these resources to deepen your understanding of distributed systems! 🌐🔍