"The Future of the Web: From Cloud to Edge using Server-Side Components, React 18, and Next.js 13"

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WHAT IS EDGE COMPUTING?

Edge computing is a distributed information technology(IT) architecture in which client data is processed as the periphery of the network, as close to the originating source as possible.

Data is the lifeblood of modern business, providing valuable business insight and supporting real-time control over critical business processes and operations. Thus, edge computing is reshaping IT and business computing

How does edge computing work?

Edge computing is all a matter of location. In traditional enterprise computing, data is produced at a client endpoint, such as a user's computer. That data is moved across a WAN such as the internet, through the corporate LAN, where the data is stored and worked upon by an enterprise application. Results of that work are then conveyed back to the client endpoint. This remains a proven and time-tested approach to client-server computing for most typical business applications.

But the number of devices connected to the internet, and the volume of data being produced by those devices and used by businesses, is growing far too quickly for traditional data center infrastructures to accommodate

Basic Components of Edge Computing

1. Internet of things (IoT)

The <u>usage of IoT devices</u> has significantly exploded in the last few years

2. Communication networks

The rise of 5G has opened the gates to many exciting innovations and developments.

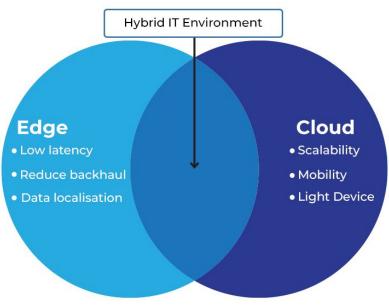
3. Cloud computing

For the longest time, centralized cloud computing has been a standard in the IT industry and continues to be the undisputed leader

EDGE COMPUTING VS CLOUD COMPUTING



EDGE COMPUTING VS. CLOUD COMPUTING



BackGround:Computing Models

- . CLOUD
- . INFRASTRUCTURE
- . DISTURBED
- . NETWORKING VS NETWORKS
- . SERVERS VS COMPUTERS
- . COMPUTING
- . PROCESSING
- . DEVICES

React v18.0

React 18 is now available on npm!

In our last post, we shared step-by-step instructions for upgrading your app to React 18. In this post, we'll give an overview of what's new in React 18, and what it means for the future.

Our latest major version includes out-of-the-box improvements like automatic batching, new APIs like startTransition, and streaming server-side rendering with support for Suspense.

Next.js 13

Next. js 13 is the newest version, released by Vercel at the Next. js conference in October 2022. It brings a slew of new features, including a bundler called Turbopack and support for several React-incubated optimizations like React Server Components and streaming rendering