1. cloud computing(云计算)

the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.

1. The Evolution of cloud hosting(云托管)

Dedicated Server🡪 Virtual private server (VPS)🡪 Shared Hosting🡪 Cloud Hosting

---Dedicated Server:

One physical machine dedicated to single a business.

Run a single web application/site

Very expensive, high maintenance, high security

---Virtual private server(VPS)

One physical machine dedicated to a single business.

The physical machine is virtualized into sub-machines

Run multiple web-applications/sites

Better utilization and isolation of resources

---Shared Hosting

One physical machine, shared by hundreds of businesses

Relies on most tenants under-utilizing their resources.

Very cheap, limited functionality, poor isolation

---Cloud Hosting

Multiple physical machines that act as one system.

The system is abstracted into multiple cloud services.

Flexible, Scalable, Secure, Cost-Effective High configurability