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*considerations
for
network architects*



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My mission is to help you (and I) grow and learn, every day! My favicons include:

- ✓ Auditing of financial and IT systems
- ✓ Cloud awareness
- ✓ Cybersecurity
- ✓ CISA



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1

Fault Tolerance – a network that limits the number of devices affected by a failure. It is built to allow quick recovery when a failure occurs.

2

Scalability – expands quickly to support new users and applications. It does this without degrading the performance of services that are being accessed by existing users.



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3

Quality of service - primary mechanism for managing congestion and ensuring reliable delivery of content to all users. Congestion occurs when the demand for bandwidth exceeds the amount available.

4

Security – two things to address: network infrastructure security and information security.



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In order to achieve the goals of network security, there are three primary requirements:

- ❖ **Confidentiality:** Data confidentiality means that only the intended and authorized recipients can access and read data.
- ❖ **Integrity:** Data integrity assures users that the information has not been altered in transmission, from origin to destination.
- ❖ **Availability:** Data availability assures users of timely and reliable access to data services for authorized users.



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