What Are our security goals?

CIA

Confidentiality: if it’s supposed to be a secret, be careful who hears it

Integrity: don’t let someone change something they shouldn’t

Availability: don’t let someone stop others from using services

Thinking about threats:

Threats are viewed as types of attacks on normal services

How do interruption threats occur

Destruction of hardware, software, or data

Interface with a communications channel

Overloading a shared resource

Modification Threats

Unauthorized parties modify the data

Either on the way to the users

Or permanently at the servers

A threat to integrity

Active threats vs Passive threats

Passive threats are forms of eavesdropping

No modification, injections, etc

Active threats are more aggressive

Passive threats are mostly to secrecy