Content Addressing vs Location Addressing

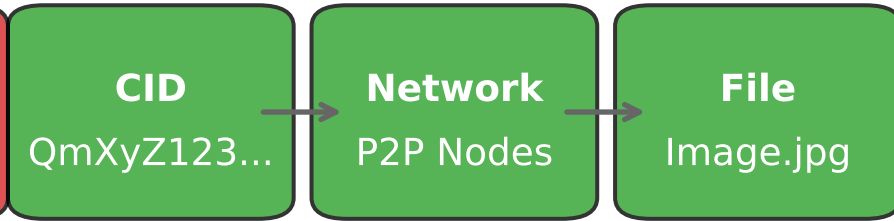**Location Addressing (HTTP)** **Content Addressing (IPFS)**

URL	Server	File	CID	Network	File
erver.com/file.jpg	Central Host	Image.jpg	QmXyZ123...	P2P Nodes	Image.jpg

Server down = 404 Error **Any node can serve file**

Content can change at URL Same content = Same CID

Single point of failure Distributed retrieval

No integrity guarantee Cryptographic verification