

FILE UPLOAD & FILE DOWNLOAD

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CLOUD STORAGE SERVICES



Google Drive



Dropbox



iCloud Drive

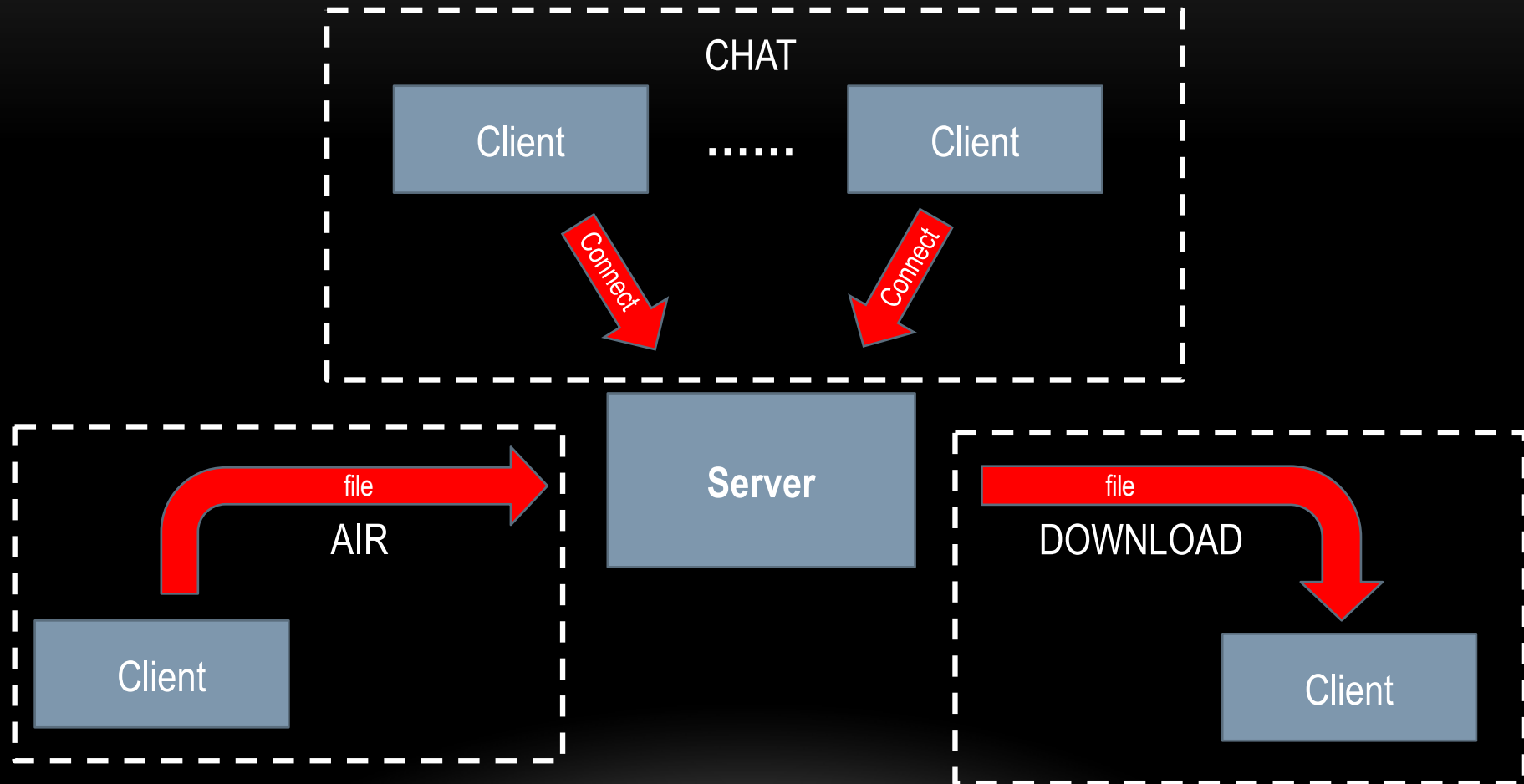


OneDrive

CLOUD STORAGE SERVICES

- 1990s – Online Backup Storage
- 1994 – AT&T – PersonaLink
- 2006 – Amazon – AWS S3
- 2008 – Dropbox – Personal Cloud Storage
- 2012 – Google – Google Drive

BASIC STRUCTURE



LOGIC

Socket Construction

```
def main():  
    #Build the socket  
    s = socket.socket()  
    #s.bind(('10.209.7.72', 9969))  
    s.bind(('localhost', 9969))  
    s.listen(10)  
    sc, address = s.accept()  
    print("Socket Construction Complete")  
    #signal received  
    msg = sc.recv(1024)  
    #print(type(msg))  
    print(msg.decode('utf-8'))  
    #processing the option and initialize correspond server
```

LOGIC

Main Server

```
if msg.decode('utf-8') == 'Chat':  
    #preparing the chat  
    rep = "signal from server".encode('utf-8')  
    sc.send(bytes(rep))  
    print("Reponse sent by server")  
    server = Server()  
    server.running()  
    #Sent the response tell client that the server is ready.
```

Main Client

```
elif sig[0:8] == 'Download':  
    path = 'Downloaded'  
    path += sig.split('/')[1]  
    receivedByClient(path)  
    # rep = s.recv(1024)  
    # print(rep.decode('utf-8'))
```

LOGIC

file_transfer server

```
import socket
def fileServer(path):
    s = socket.socket()
    s.bind(("localhost", 9999))
    #s.bind(("10.209.7.72", 9999))
    s.listen(10)
    print("ula")
    sc, address = s.accept()
    f = open(path, 'wb') #open in binary
    l = sc.recv(1024)
    while (l):
        f.write(l)
        l = sc.recv(1024)
        if(len(l) == 0):
            break
    print("serverDonetoo")
    f.close()
    sc.close()
    s.close()
```

file_transfer client

```
import socket
def fileClient(path):
    so = socket.socket()
    so.connect(("localhost", 9999))
    print("DoneSocket")
    f = open(path, "rb")
    l = f.read(1024)
    while (l):
        print("Uploading")
        so.send(l)
        l = f.read(1024)
    #l.close()
    so.close()
    print("Done")
```

IMPROVEMENTS

- Constant Server
- Run multiple functions at the same time

THANKS FOR WATCHING!