

Application Architecture

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Application Architecture

- What...
- Why...
- Exploration...

What is Application Architecture

- Your definition of component (logic unit)
- How your components interact
- The personality of your components
- Where your components reside

Common Component Definition

- Self Contained Program
- Subroutine
- Object
- Service
- Support (middleware)

Typically, You Need Components for...

- Presentation (User Interface)
- Business Rules
- Accessing Data
- Connecting Components (Middleware)

Components Can Come from...

- Your system vendor (HP)
- You acquire free / open source
- A provided internet service
- You buy them
- You write them

Components Can Interact

- Minimally
- By sharing files
- By a standard subroutine calling mechanism
- By messaging (IPC or sockets)
- By Remote Procedure Call (RPC)
- By object instantiation (local/remote)

Components Have a Personality

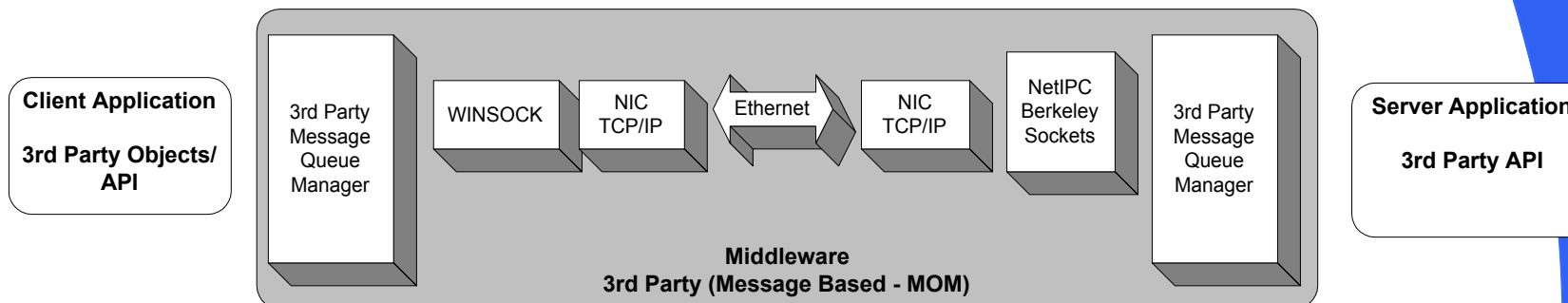
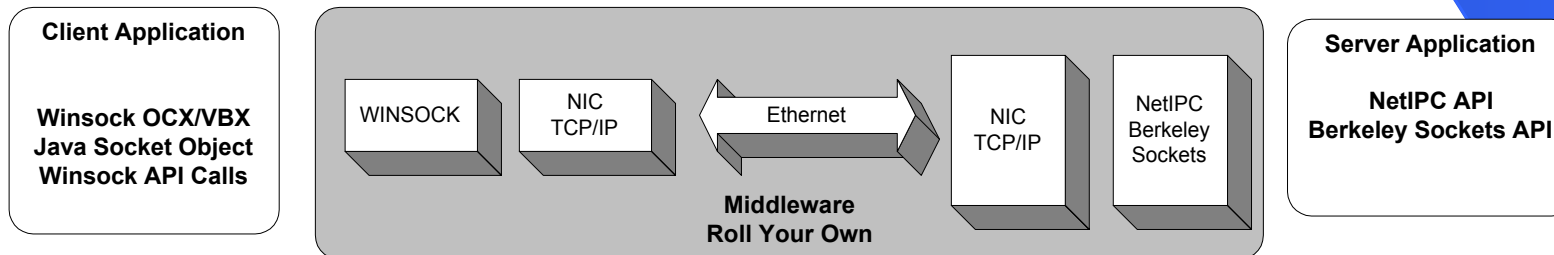
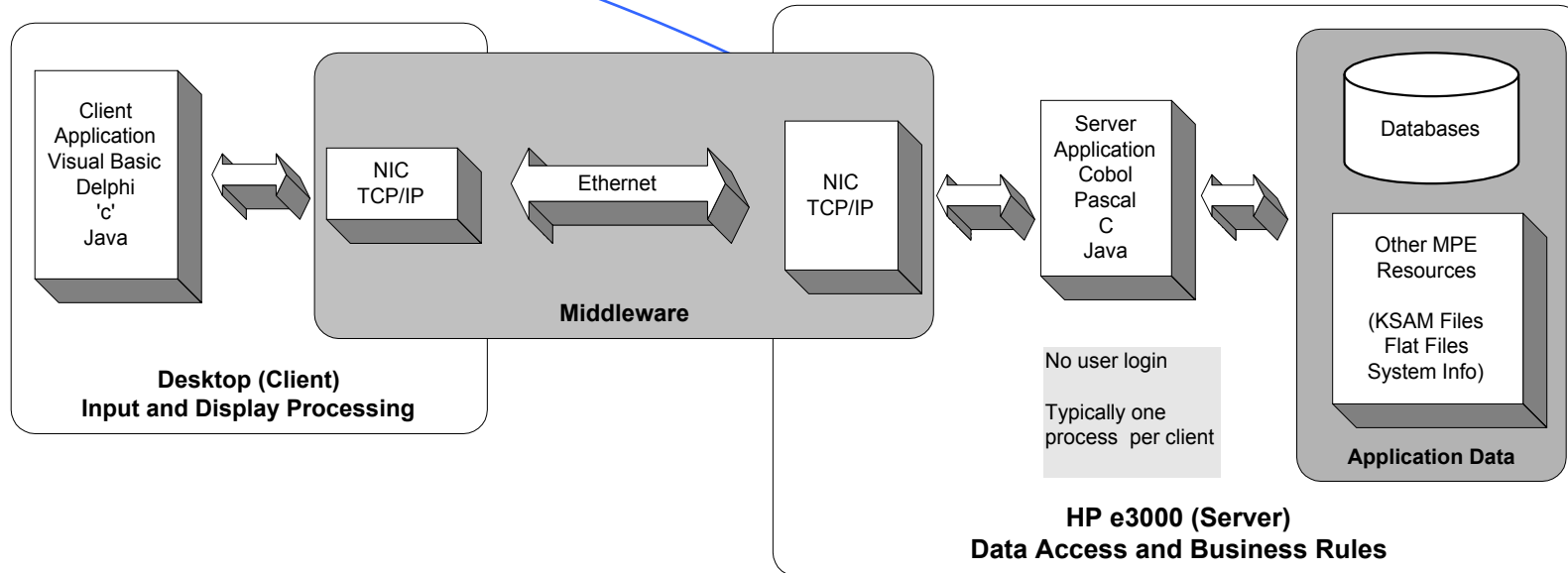
- Client
- Server
- Support (middleware)

Components Can Reside

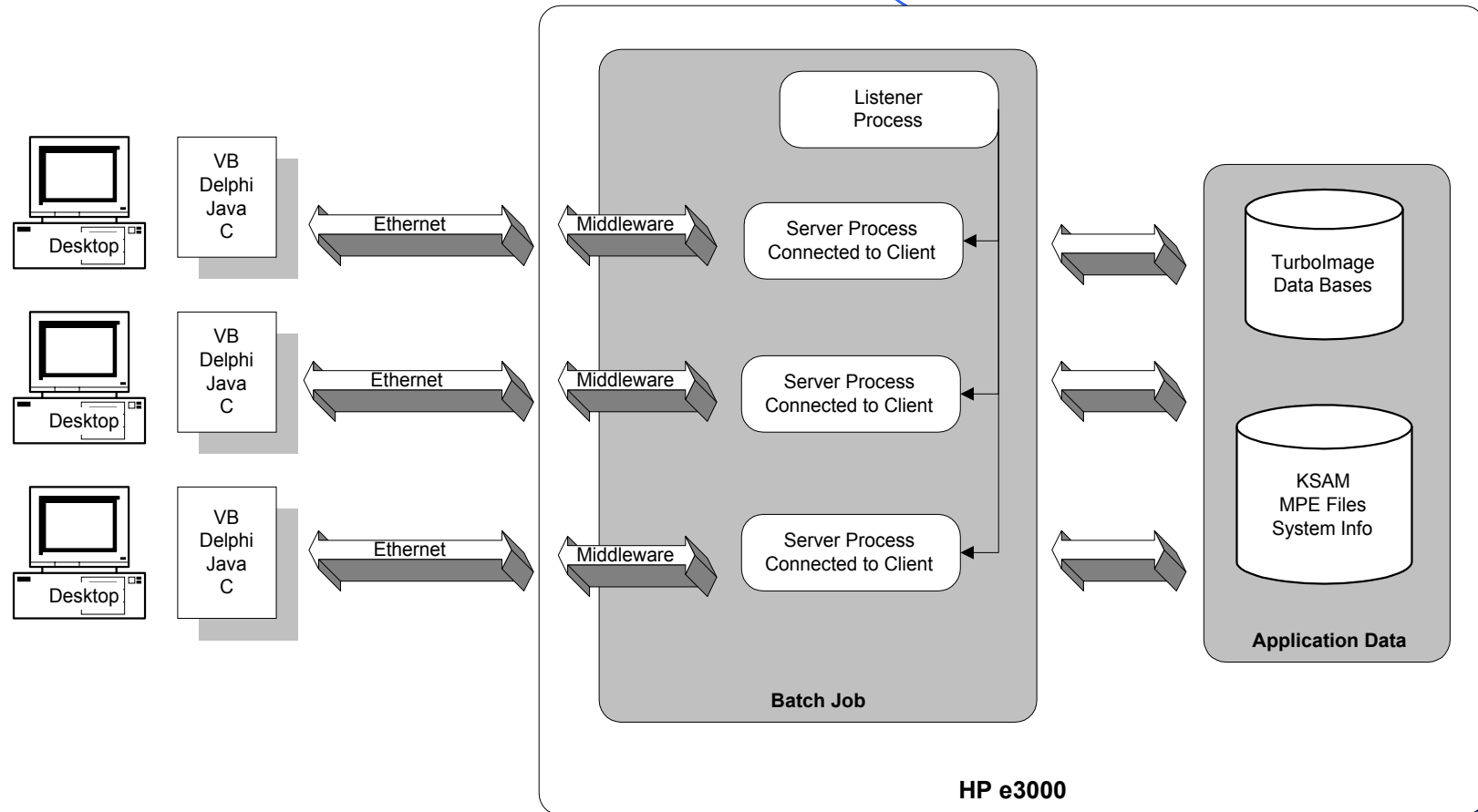
- Entirely on one system
- On desktop and server (Intranet)
- On desktop and multiple servers (Intranet)
- On desktop and server (Internet)
- On desktop and servers (Internet)
- On mixed desktop and server(s) (Intranet & Internet)

Why Worry about Application Architecture

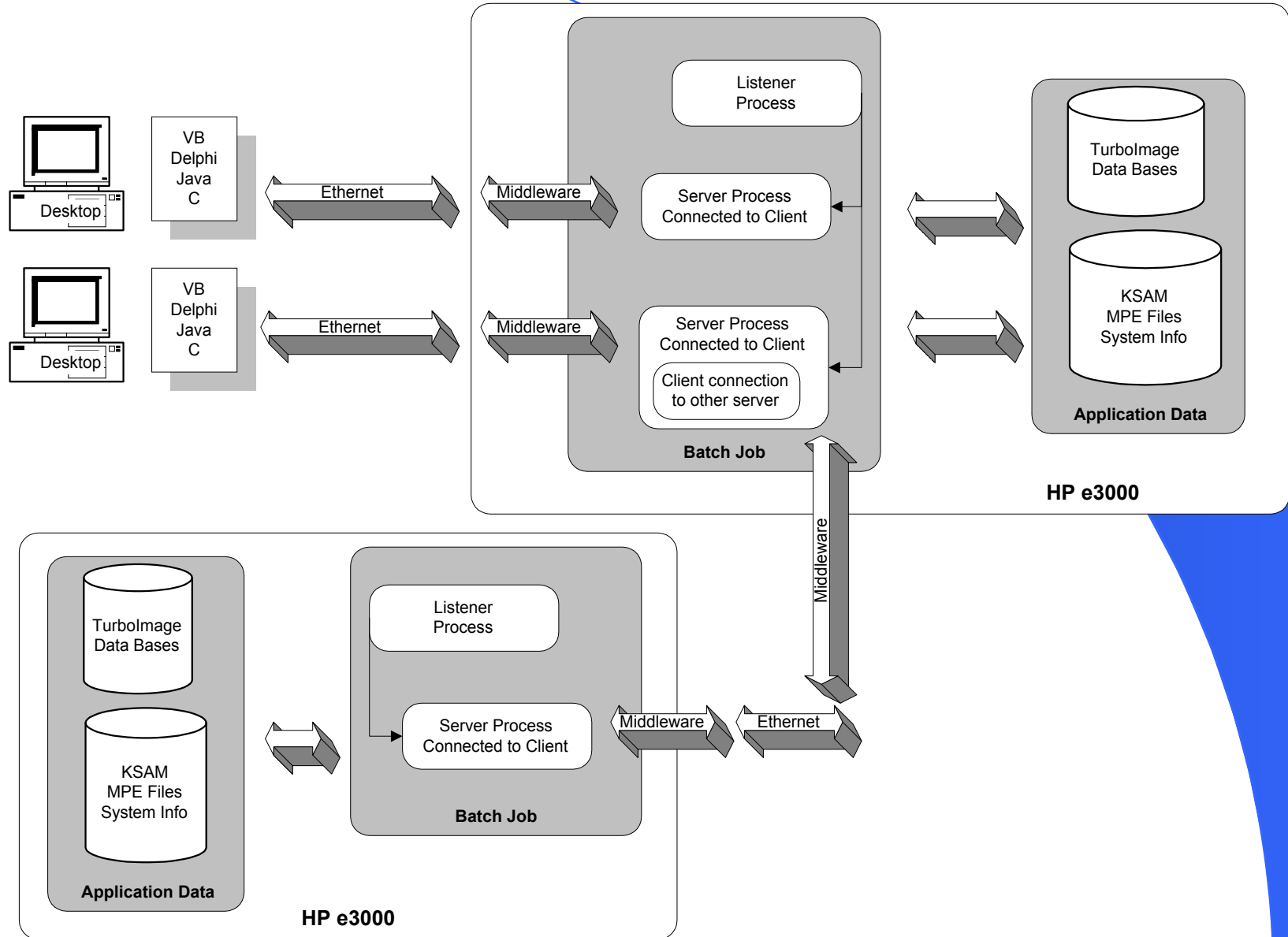
- It defines your application's capabilities
- It defines your application's extensibility
- Applications must be flexible
- Applications must exist in a heterogeneous environment
- Applications must look and feel "current"
- Applications must be deployed at low cost
- If you don't, someone else will...



Simple Client/Server - One HP e3000

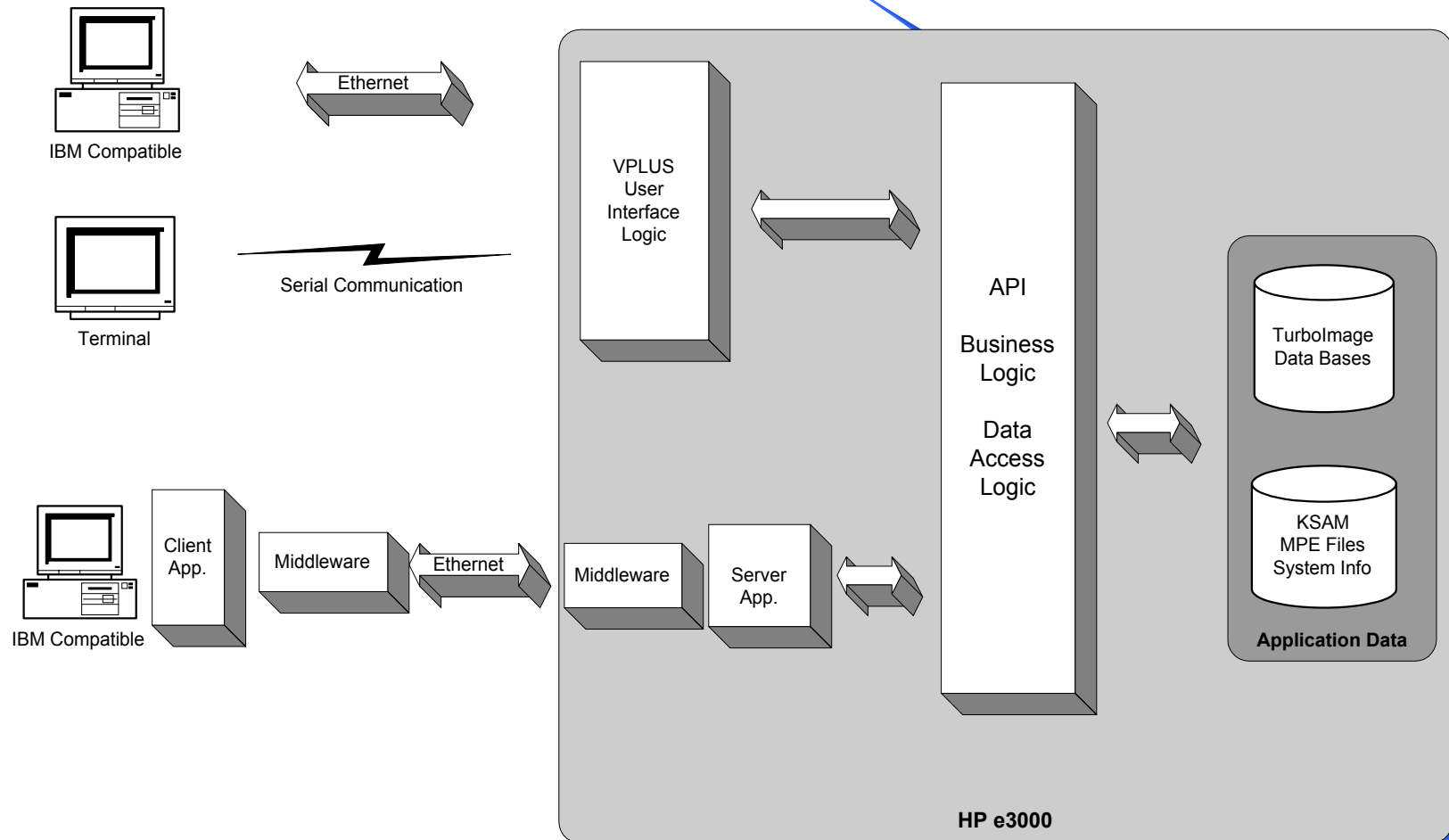


Simple Client/Server - n Server HP e3000

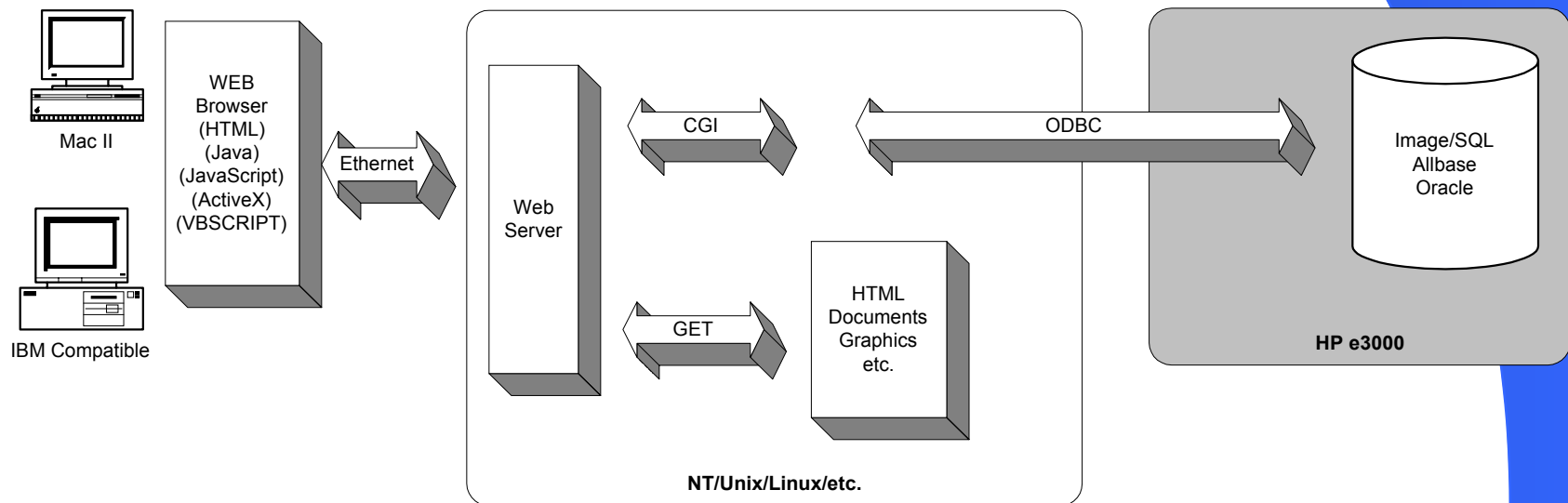
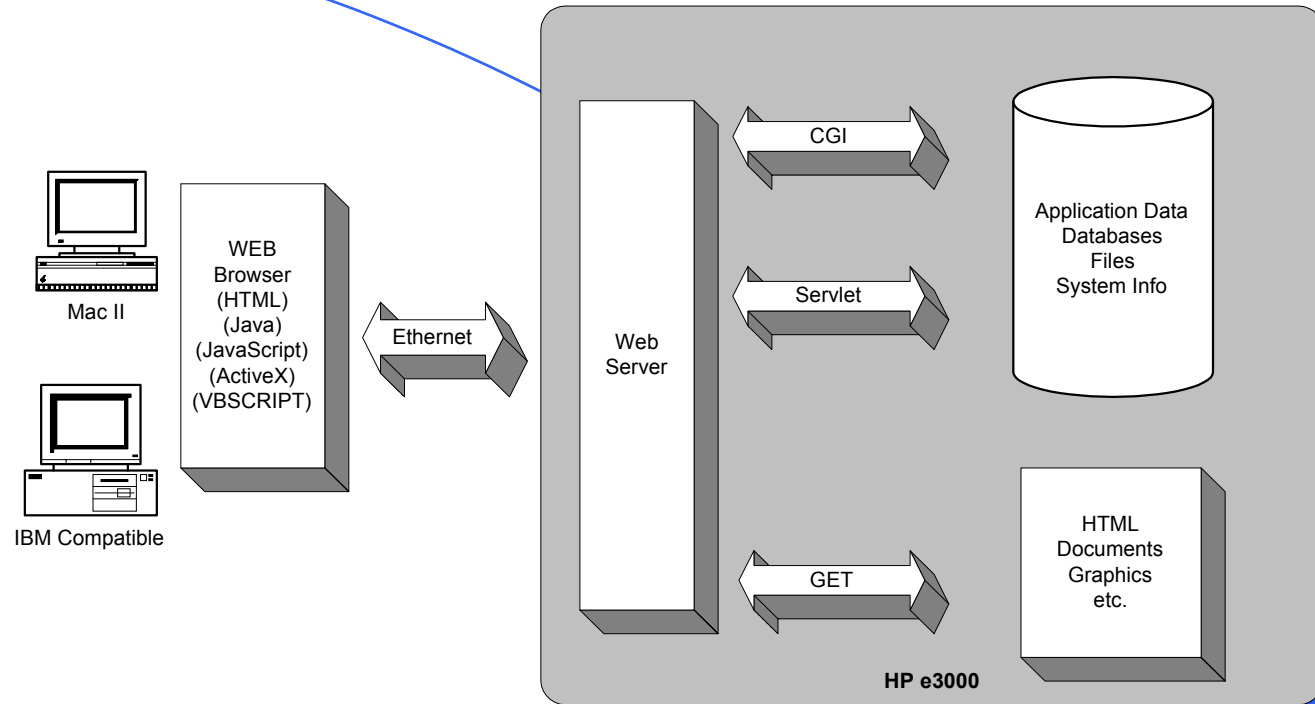


Leverage the Separation of UI/Business & Data Logic

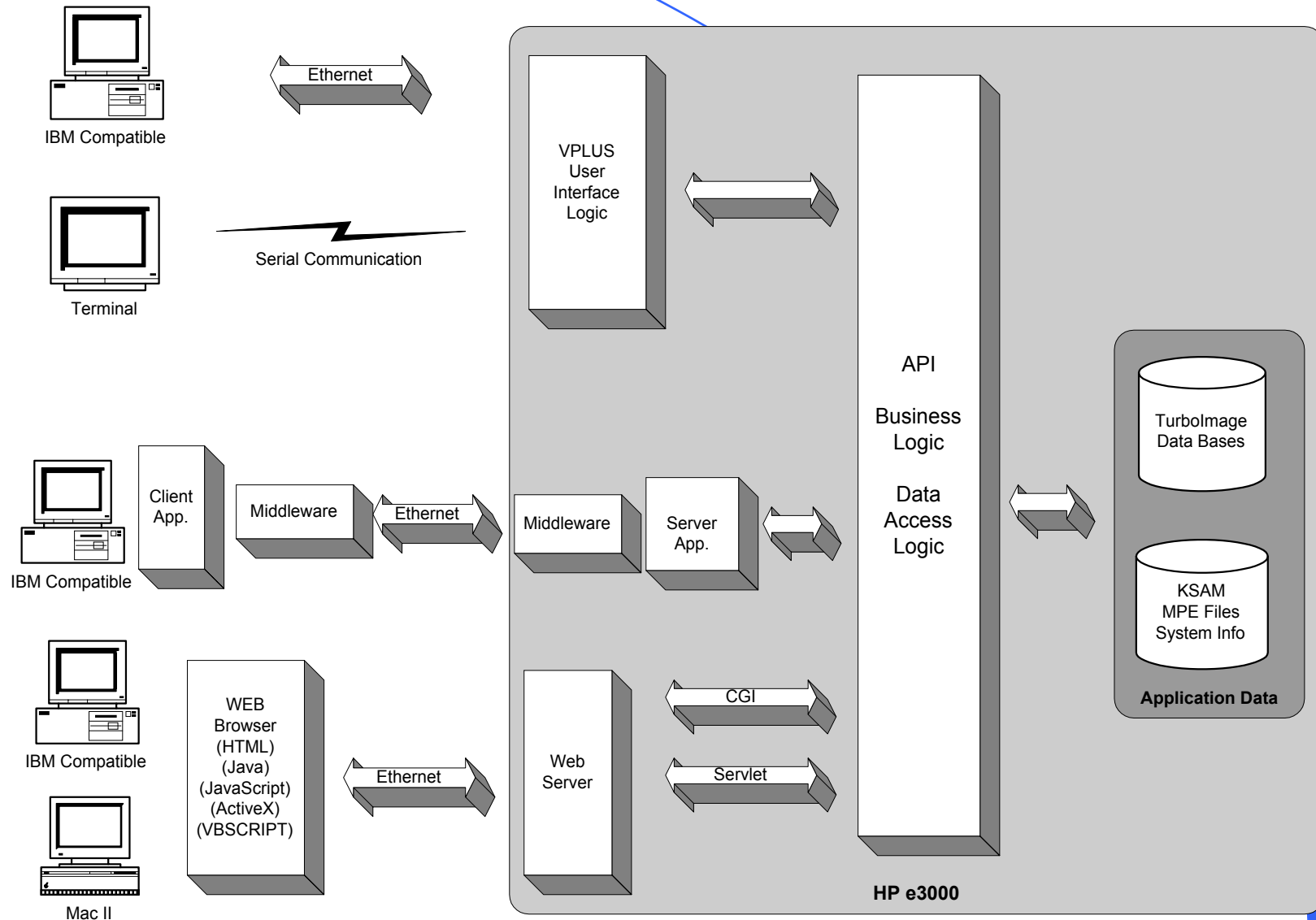
Case 1



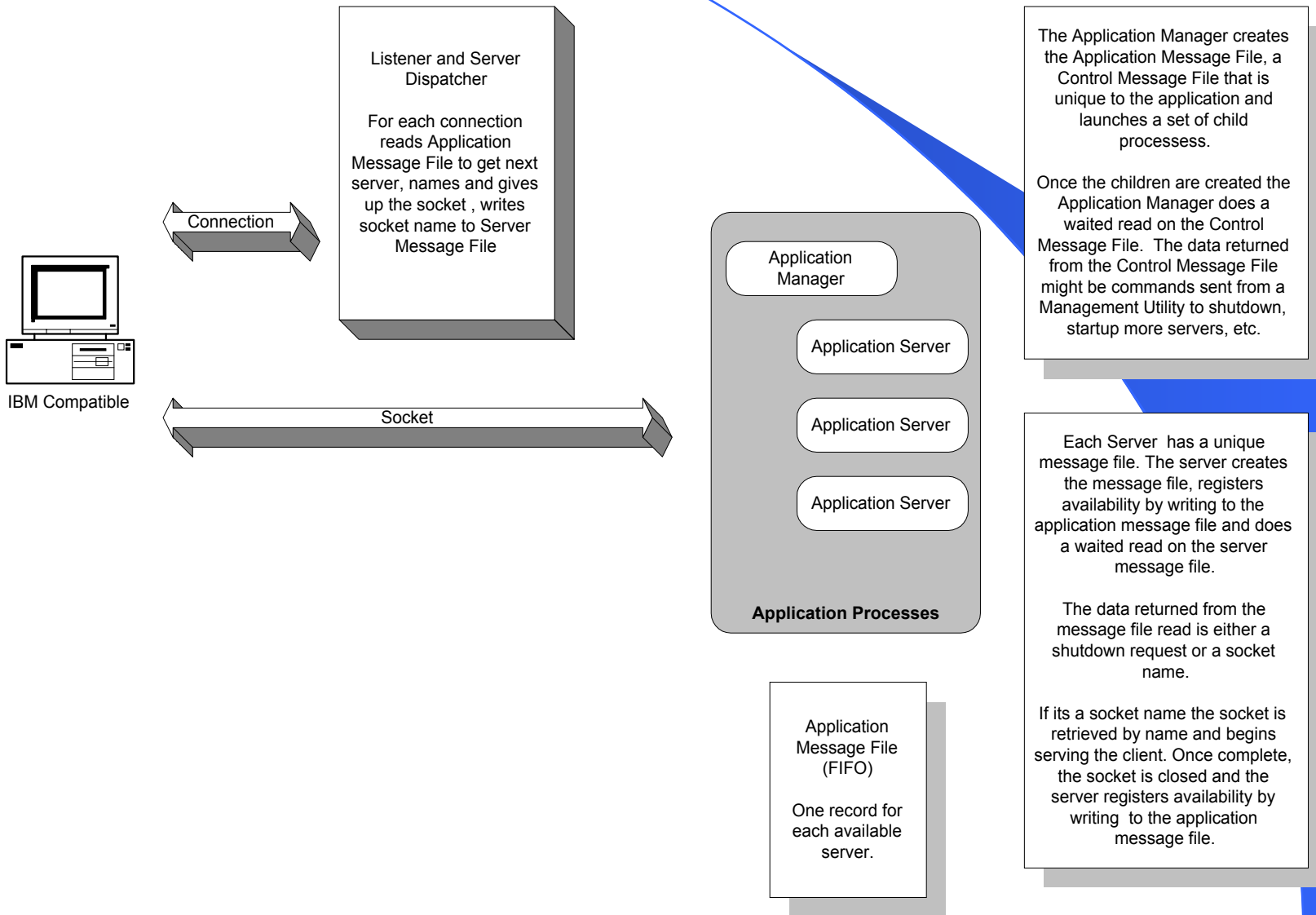
A Look at Web Servers on/off the HP e3000



Leverage the Separation of UI/Business & Data Logic Case 2



Advanced Server Management Example Using Sockets (NetIPC)



Higher Performance Web Application Architecture

