iPlanet Webtop
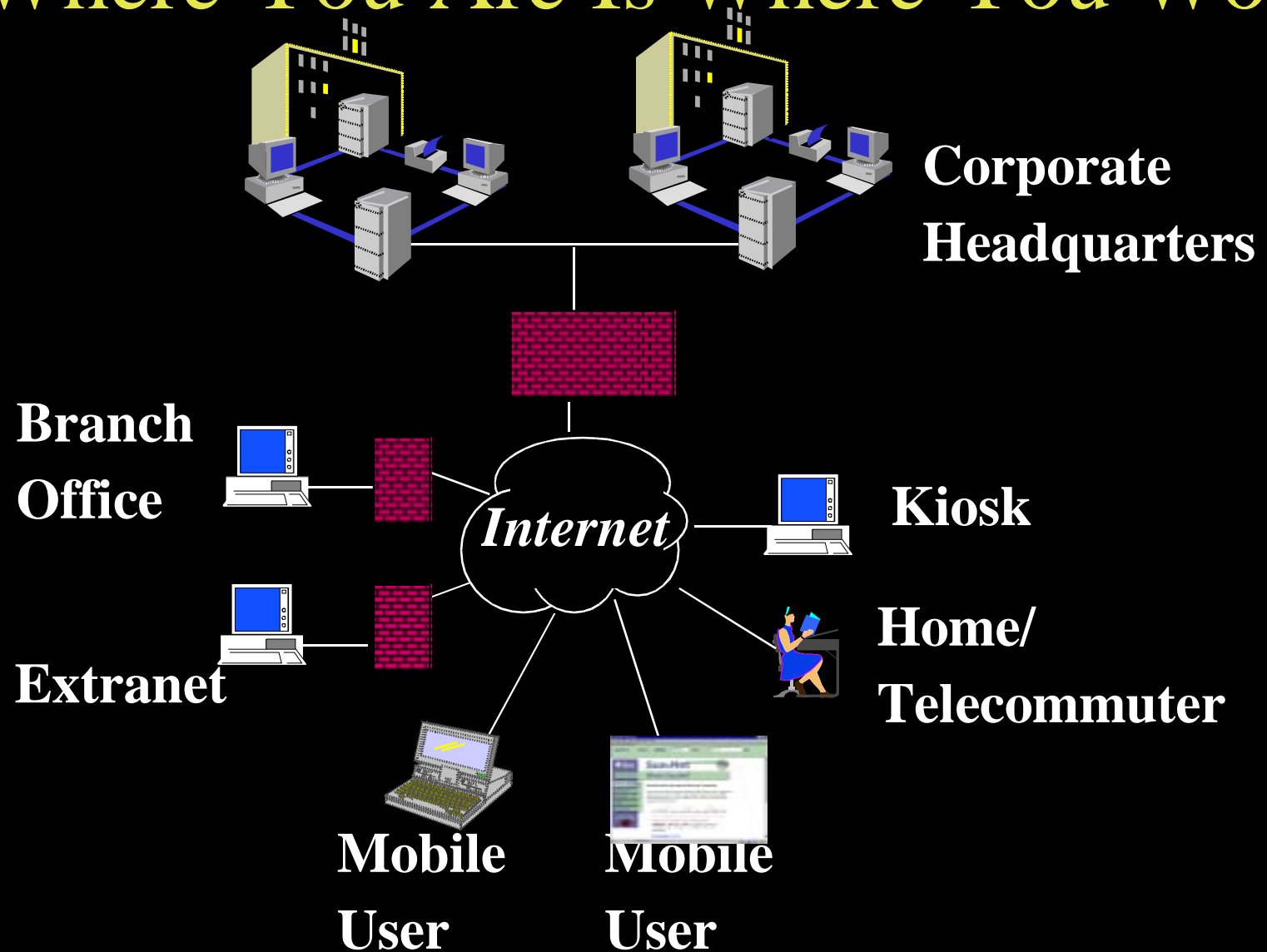
"Where you are is where you work"

Henrik Kristensen

Sun Microsystems

Where You Are Is Where You Work

Corporate Headquarters

Branch Office

Internet

Kiosk

Extranet

Home/ Telecommuter

Mobile User

Mobile User

iPlanet Webtop

Secure access to
any intranet resource
from anywhere

Secure access

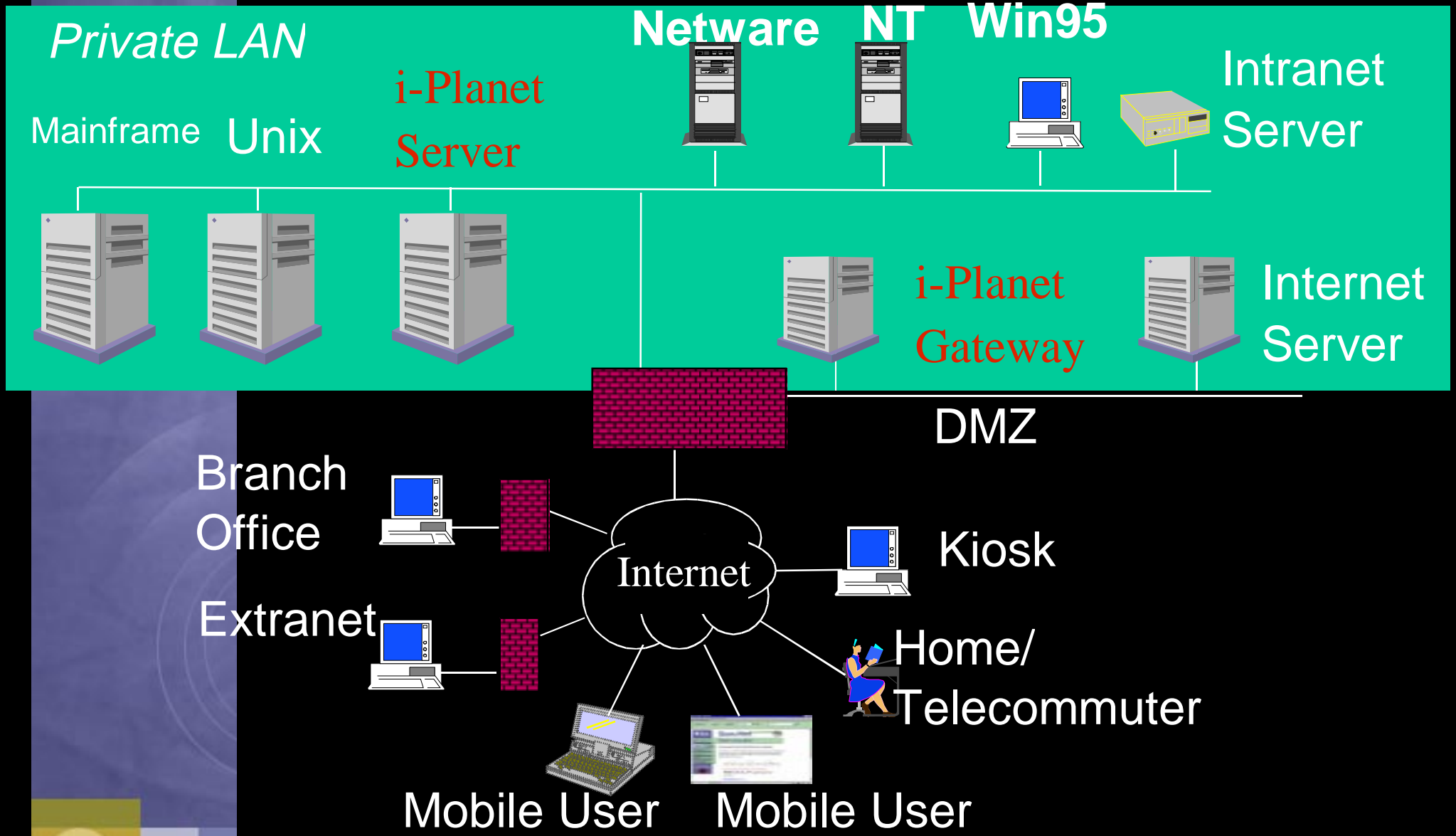- Authenticated
- Encrypted

Any resource

- Web servers
- Java apps
- File servers
  - SMB, Novell, NFS, FTP
- Unix and mainframe apps
- NT/95 apps
- Mail, calendar

Anywhere

- Any browser
- At home
- At a business partner
- Internet cafe
- Hotel
- From behind a firewall

Architecture

Private LAN

Mainframe Unix i-Planet Server **Netware** **NT** **Win95** Intranet Server

i-Planet Gateway Internet Server

DMZ

Branch Office

Extranet

Internet

Kiosk

Home/ Telecommuter

Mobile User Mobile User

Secure access

- Authenticated
- Encrypted

Authentication

- NT Domain
- NIS
- Password file
- RADIUS
- SafeWord, SecureID
- S/Key
- API

Encryption

- *All* traffic is encrypted using SSL

Resources

- File servers

- Web servers

- Applications

File server access

- "Explorer" applet
- Talks to gateway
- Gateway can access:
  - SMB, Novell
  - NFS, FTP
- Server can compress and mail
- HTML-based gateway

Web servers

- Reverse proxy on iPlanet Gateway
- All traffic is encrypted
- All URLs are re-written

http://myserver.foo.com/index.html
https://access.foo.com/myserver.foo.com/index.html

Application access

- Applets
  - Gets downloaded

- Mail
  - Download applet
  - HTML gateway on iPlanet Server
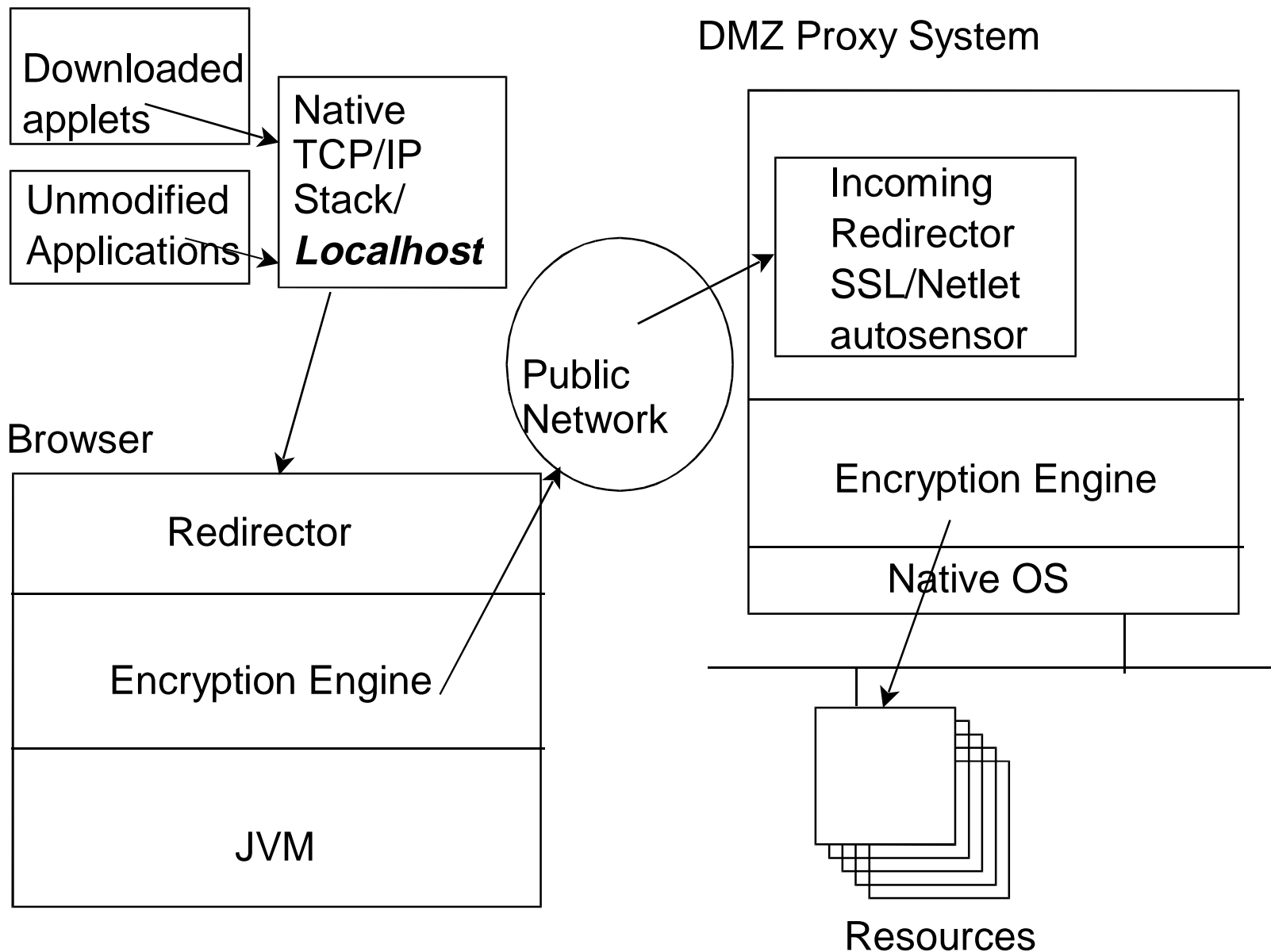
- Telnet
  - Download applet (VT100 emulator)

Application access

- TN3270, TN5250
  - Download applet

- NT
  - Download Citrix ICA applet client

- X11
  - GraphOn GO-Joe

Key technology - the *Netlet*

- Encrypted tunnels with no s/w installation

- Listens on localhost (specific ports)

- Encryption/decryption

- Redirect to eprox (via rproxy)

- eprox decrypts and proxies

- Sense and configure for proxy mode

Netlet Architecture

Downloaded applets

Unmodified Applications

Native TCP/IP Stack/ *Localhost*

Browser

Redirector

Encryption Engine

JVM

Public Network

DMZ Proxy System

Incoming Redirector SSL/Netlet autosensor

Encryption Engine

Native OS

Resources

Netlet howto

- Create port/server mapping
  localhost:port -> server:port

- Download applet through netlet
  localhost:8099/path-to-applet

- Applet connects to originating server (localhost)
  – If not, put entry in external DNS

Non-applet clients

- Install client locally

- TCP/IP only (no UDP)

- Fixed ports

- Initiate only

- Example: MS Outlook

iPlanet Webtop

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