The Business Value of VDI

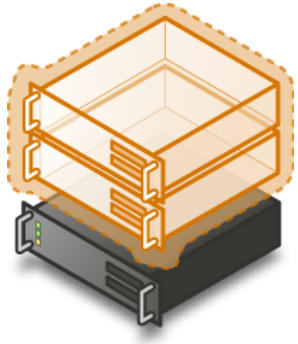
Jeroen van de Kamp

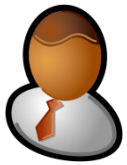
CTO Login Consultants

Everything is Virtual

Presentation Virtualization

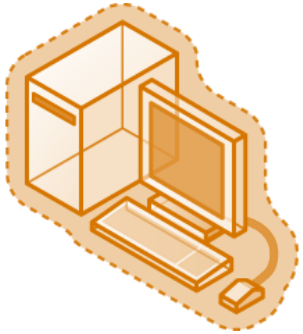
Server Virtualization





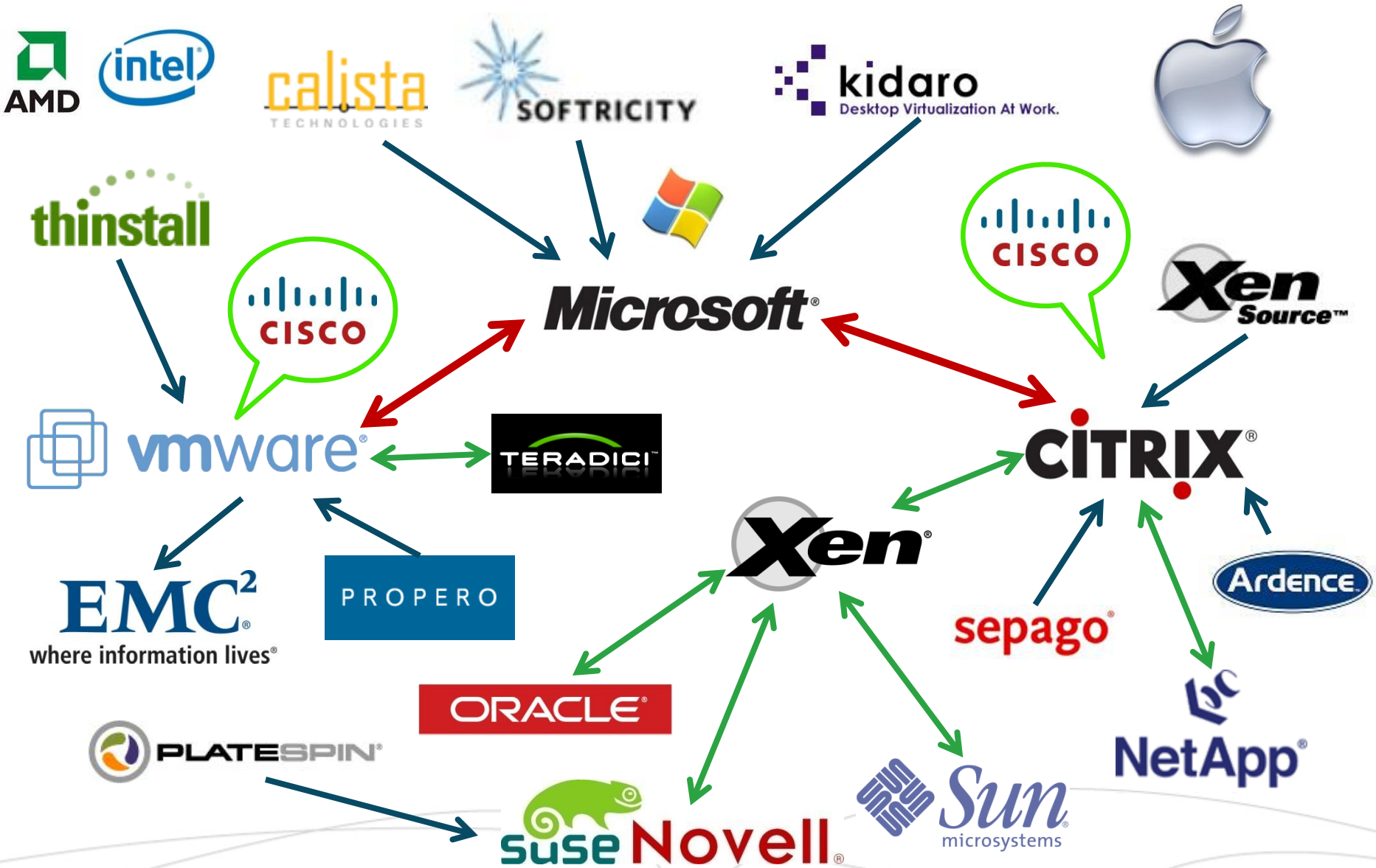
Profile Virtualization

Application Virtualization

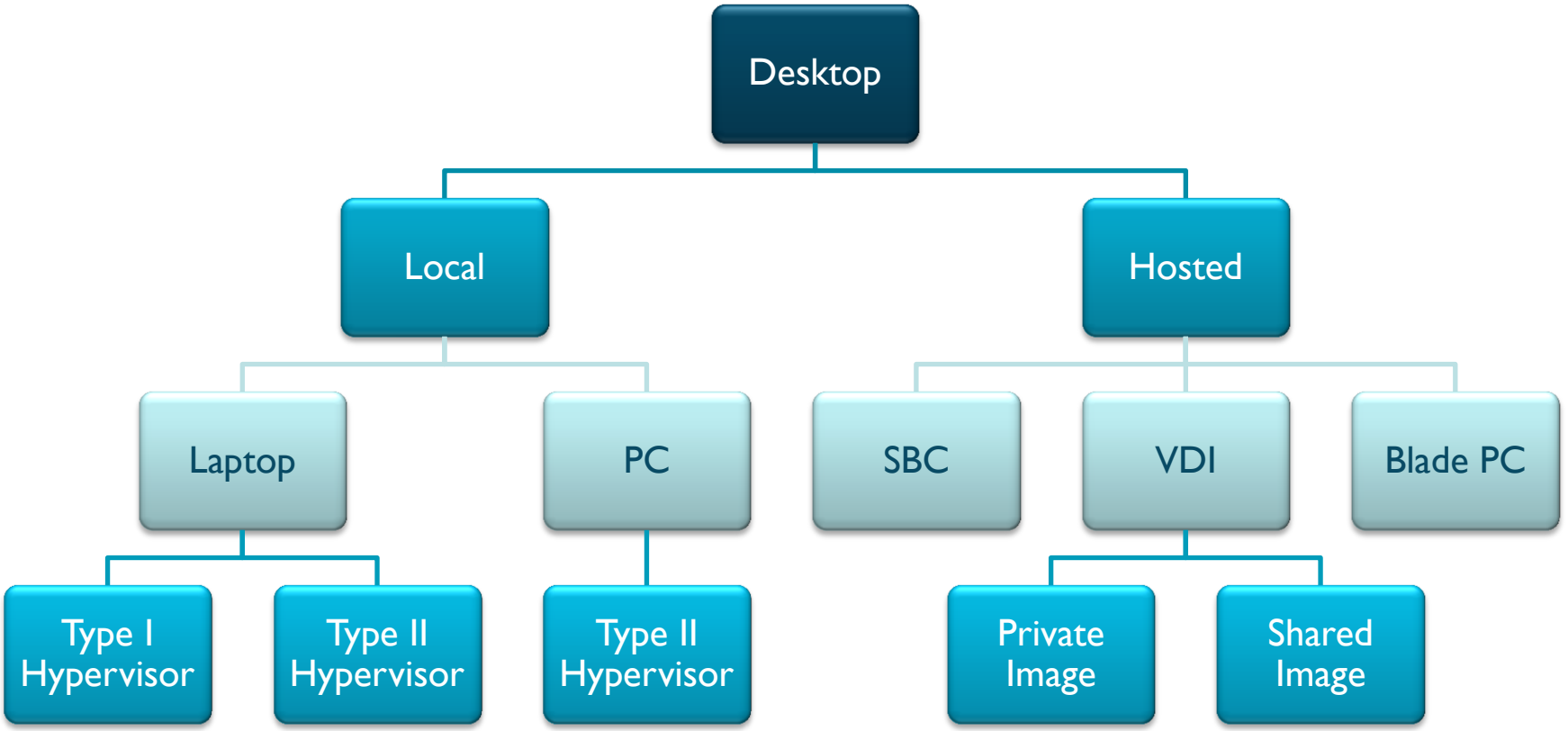


Desktop Virtualization

The Virtualization Market Space

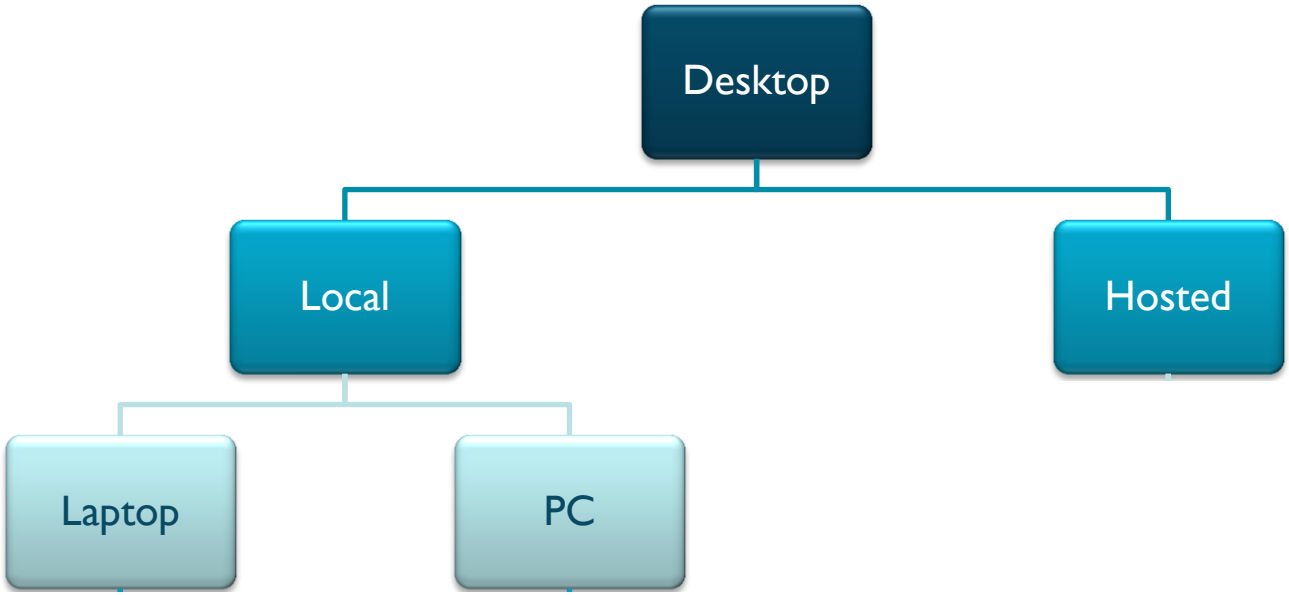


Desktop 2.0

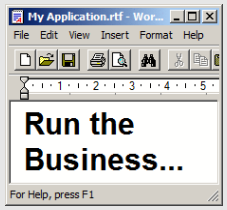

Desktop
Local
Hosted
Laptop
PC
SBC
VDI
Blade PC
Type I Hypervisor
Type II Hypervisor
Type II Hypervisor
Private Image
Shared Image

Desktop 2.0

Desktop 2.0

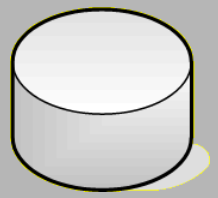


Classic Desktop Infrastructure



Application Front-end

Application Data



Application Back-end

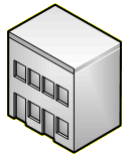
Desktop

Deployment Data

Management Server

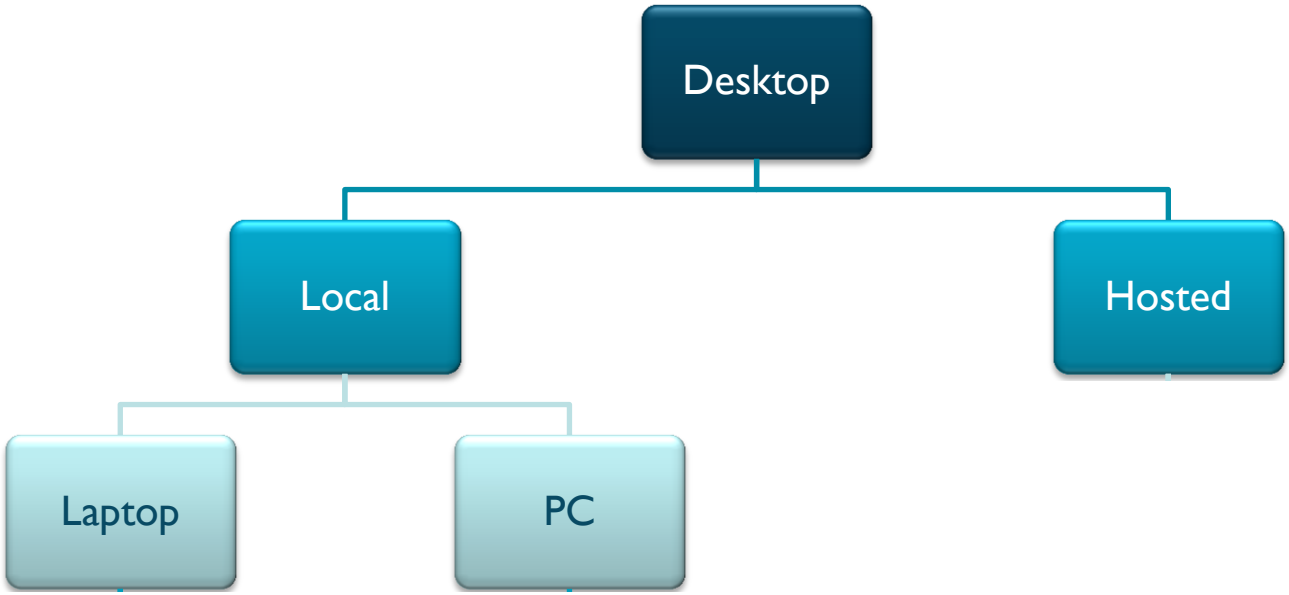
PC / Laptop

Network

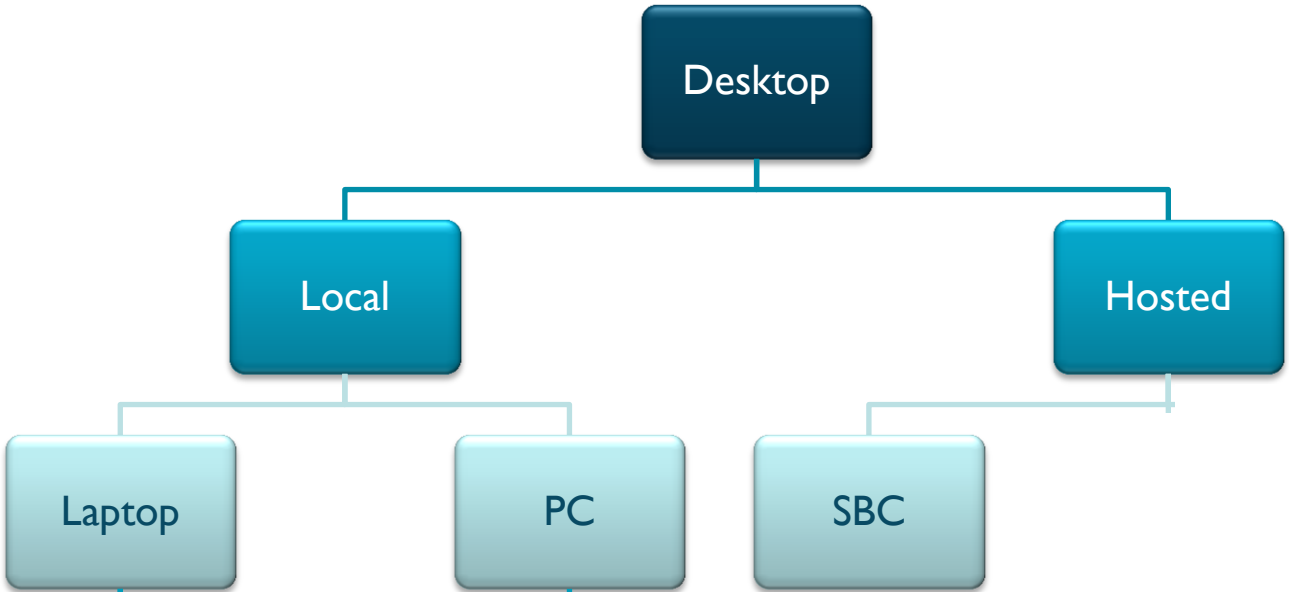


Data Center

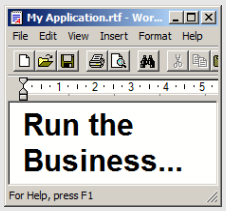
Desktop 2.0



Desktop 2.0

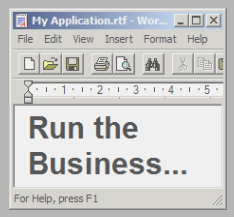


Presentation Virtualization (SBC)



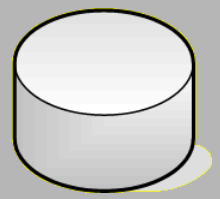
Application Front-end

Presentation Data

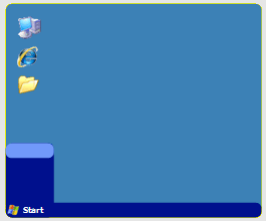


Application Front-end

Application Data



Application Back-end



Remote Desktop

Presentation Data

CTX/TS Desktop

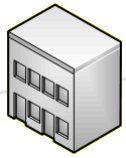
Deployment Data

Management Server

PC/Laptop/Thin Client

Network

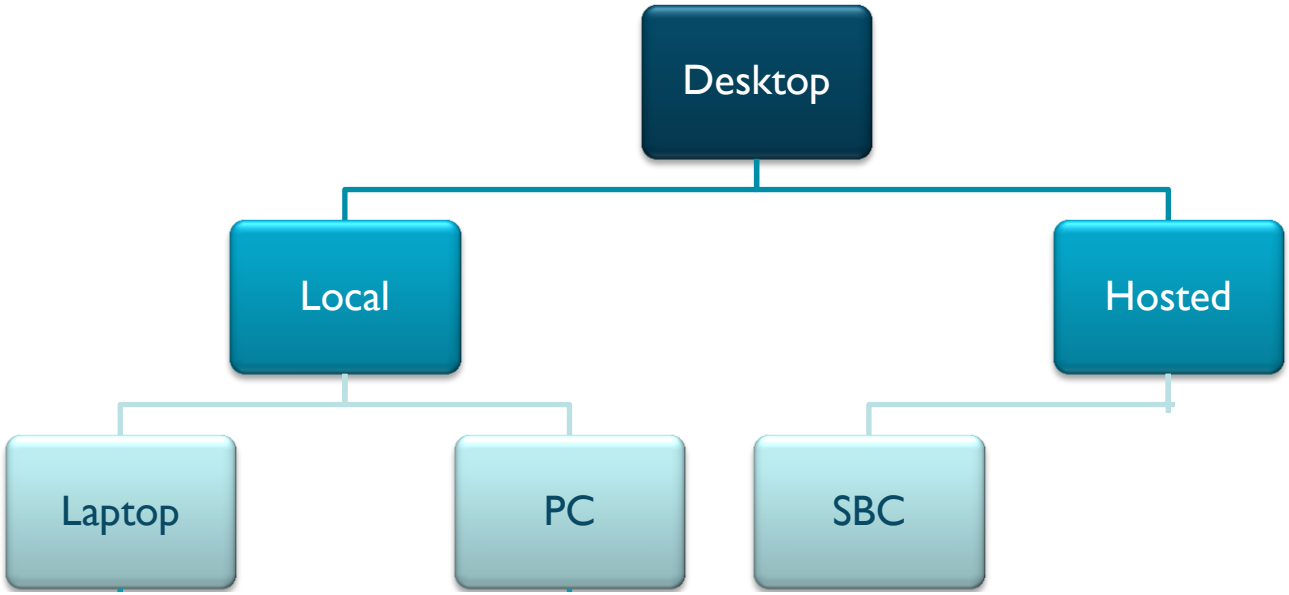
Presentation Servers



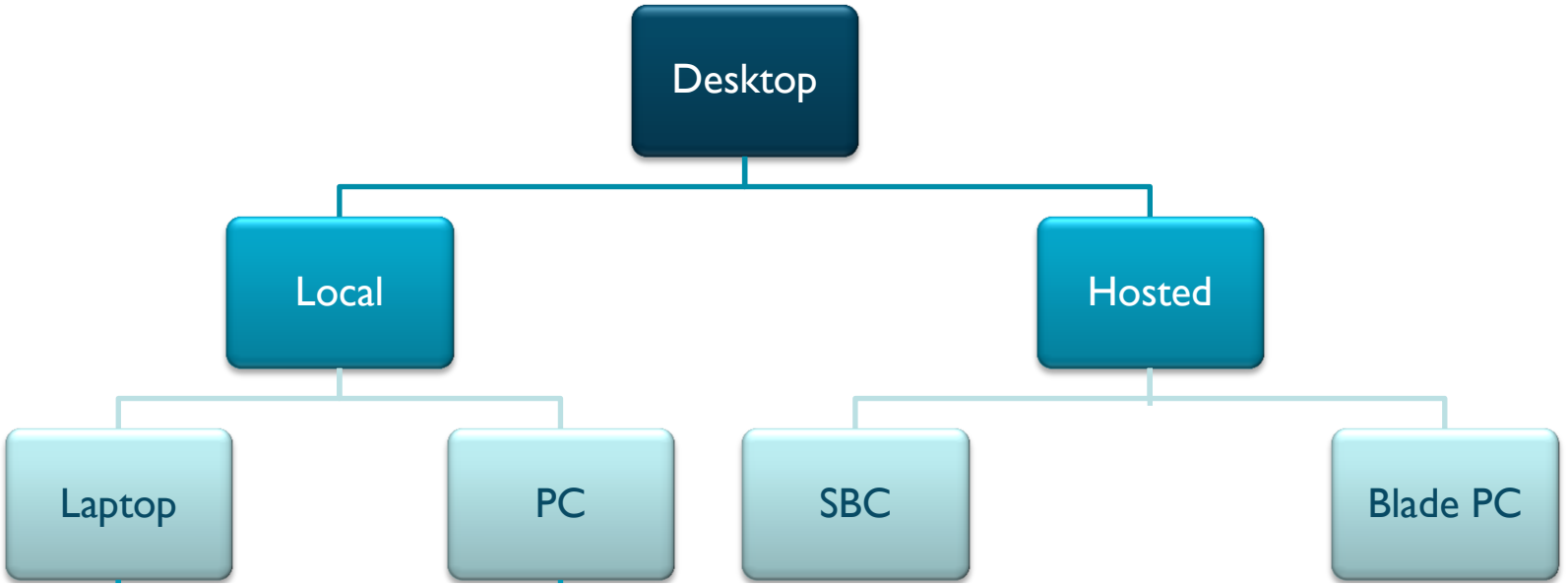
Data Center

Log•in consultants

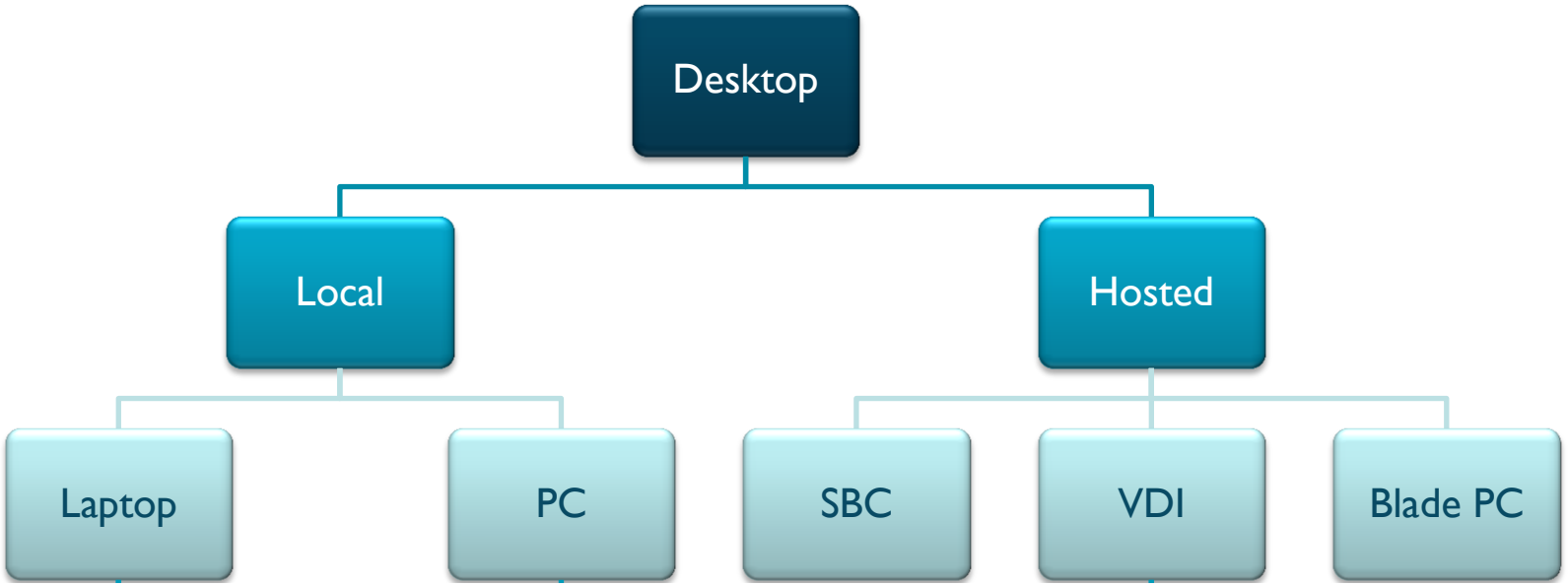
Desktop 2.0



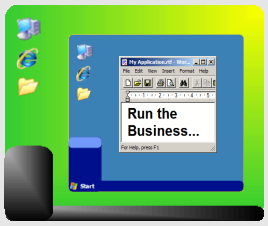
Desktop 2.0



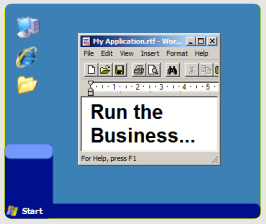
Desktop 2.0



Client side vs Hosted Virtual Desktop



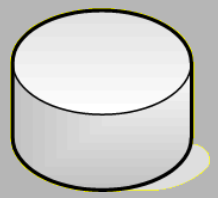
Client side
Virtual Desktop



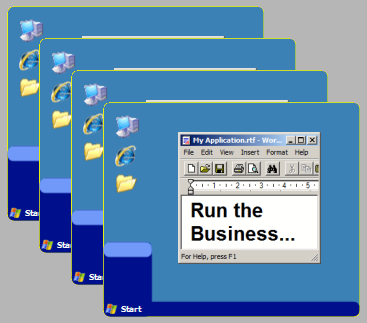
Hosted Virtual
Desktop

Data

Presentation
Protocol



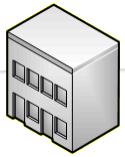
Application



Hosted
Desktops

Client

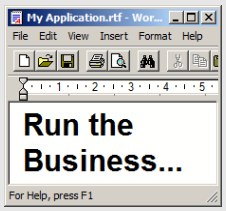
Network



Data Center

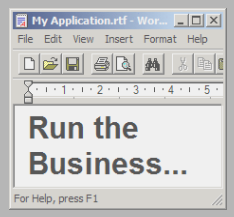
Log•in consultants

Hosted virtual Desktops



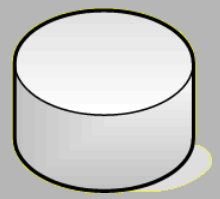
Application Front-end

Presentation Data



Application Front-end

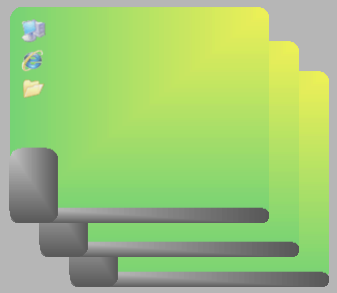
Application Data



Application Back-end

Desktop

Presentation Data



Desktop

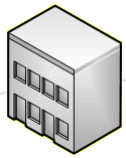
Deployment Data

Management Server

Client

Network

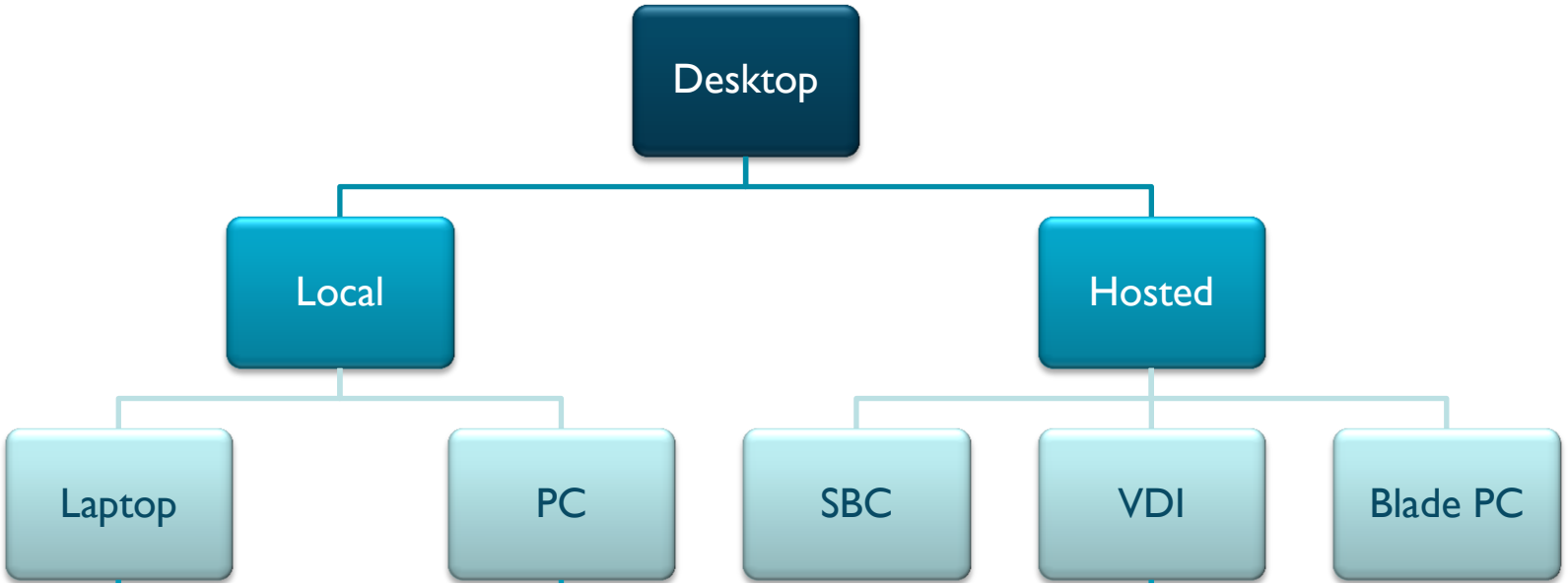
Virtualization Host



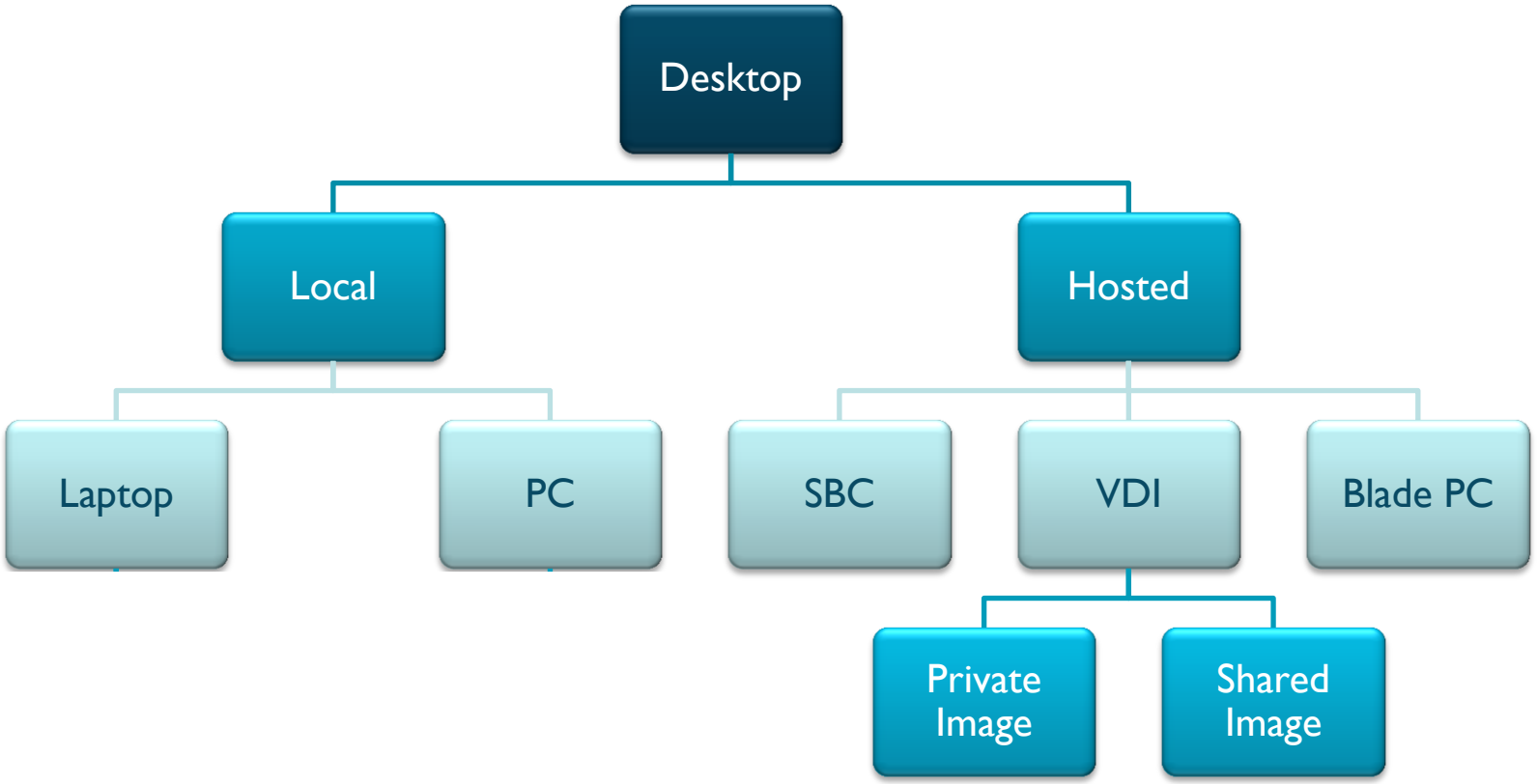
Data Center

Log•in consultants

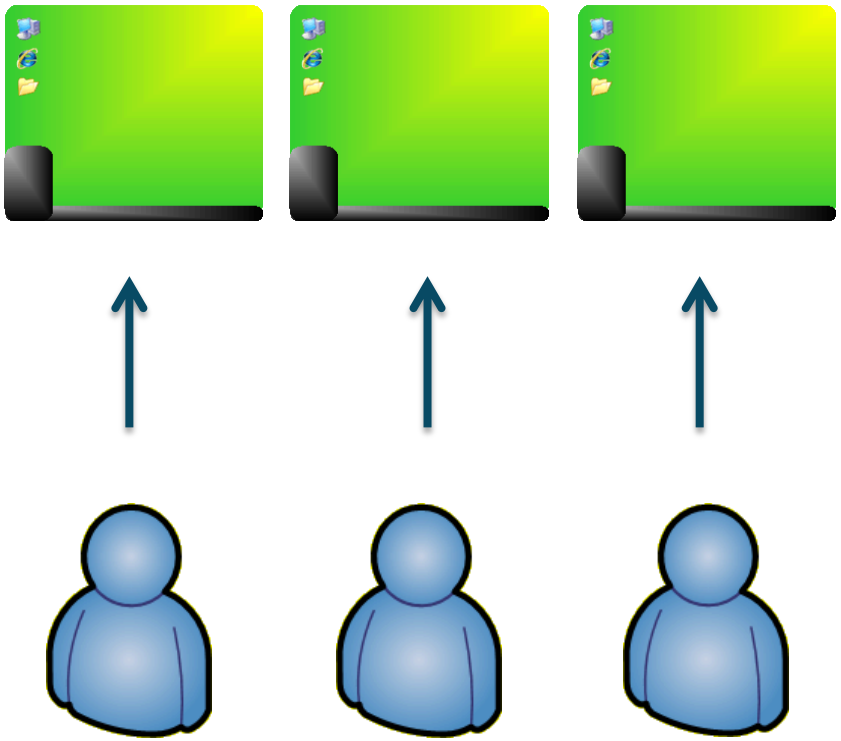
Desktop 2.0



Desktop 2.0

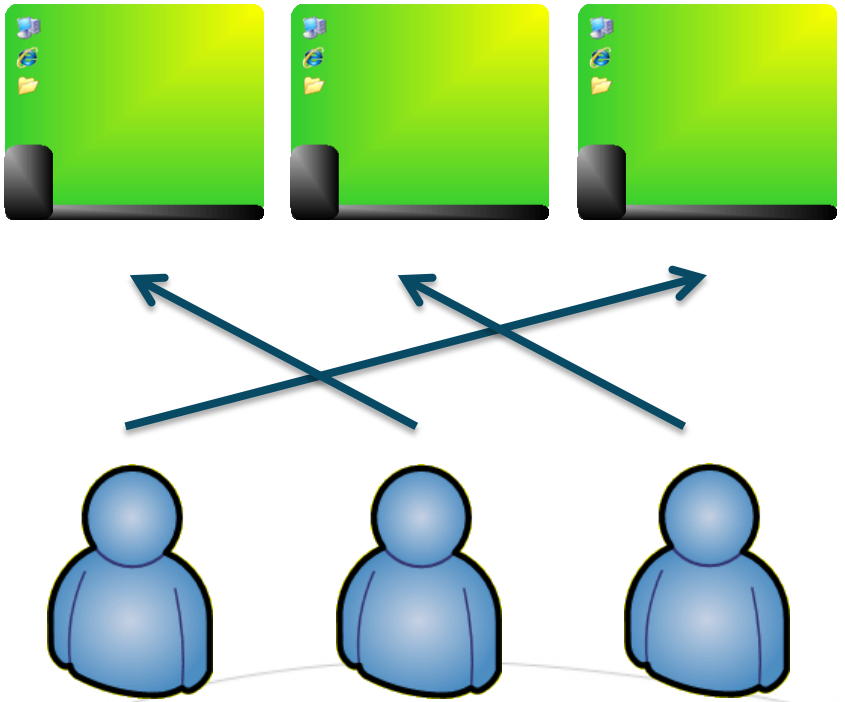

Desktop
Local
Hosted
Laptop
PC
SBC
VDI
Blade PC
Private Image
Shared Image

Shared vs Private VDI

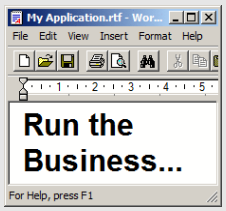


Persistent
Private
Statefull
Assigned

Non-Persistent
Shared
Stateless
Pooled

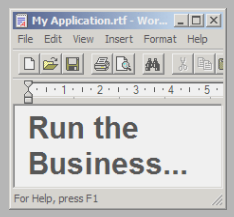


Hosted virtual Desktops



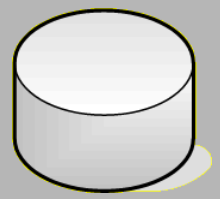
Application Front-end

Presentation Data



Application Front-end

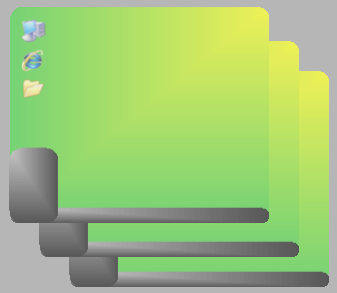
Application Data



Application Back-end

Desktop

Presentation Data



Desktop

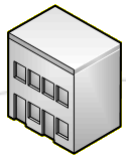
Deployment Data

Management Server

Client

Network

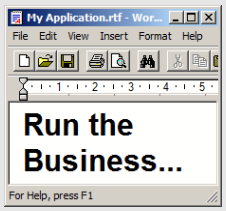
Virtualization Host



Data Center

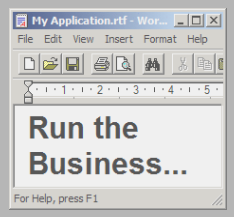
Log•in consultants

Presentation Virtualization (SBC)



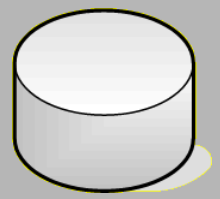
Application Front-end

Presentation Data

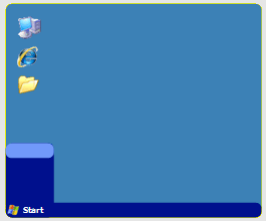


Application Front-end

Application Data



Application Back-end



Remote Desktop

Presentation Data

CTX/TS Desktop

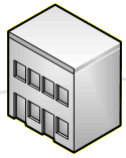
Deployment Data

Management Server

PC/Laptop/Thin Client

Network

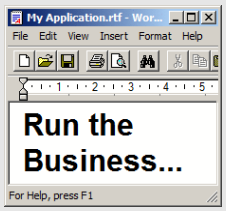
Presentation Servers



Data Center

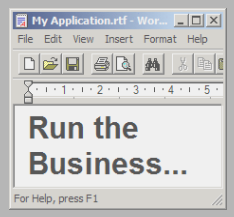
Log•in consultants

Hosted virtual Desktops



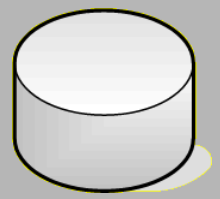
Application Front-end

Presentation Data



Application Front-end

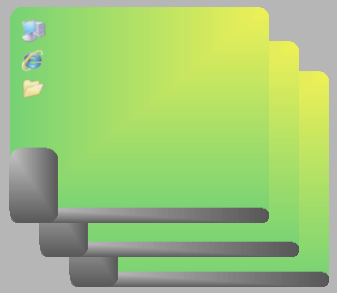
Application Data



Application Back-end

Desktop

Presentation Data



Desktop

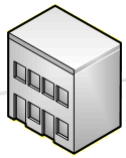
Deployment Data

Management Server

Client

Network

Virtualization Host



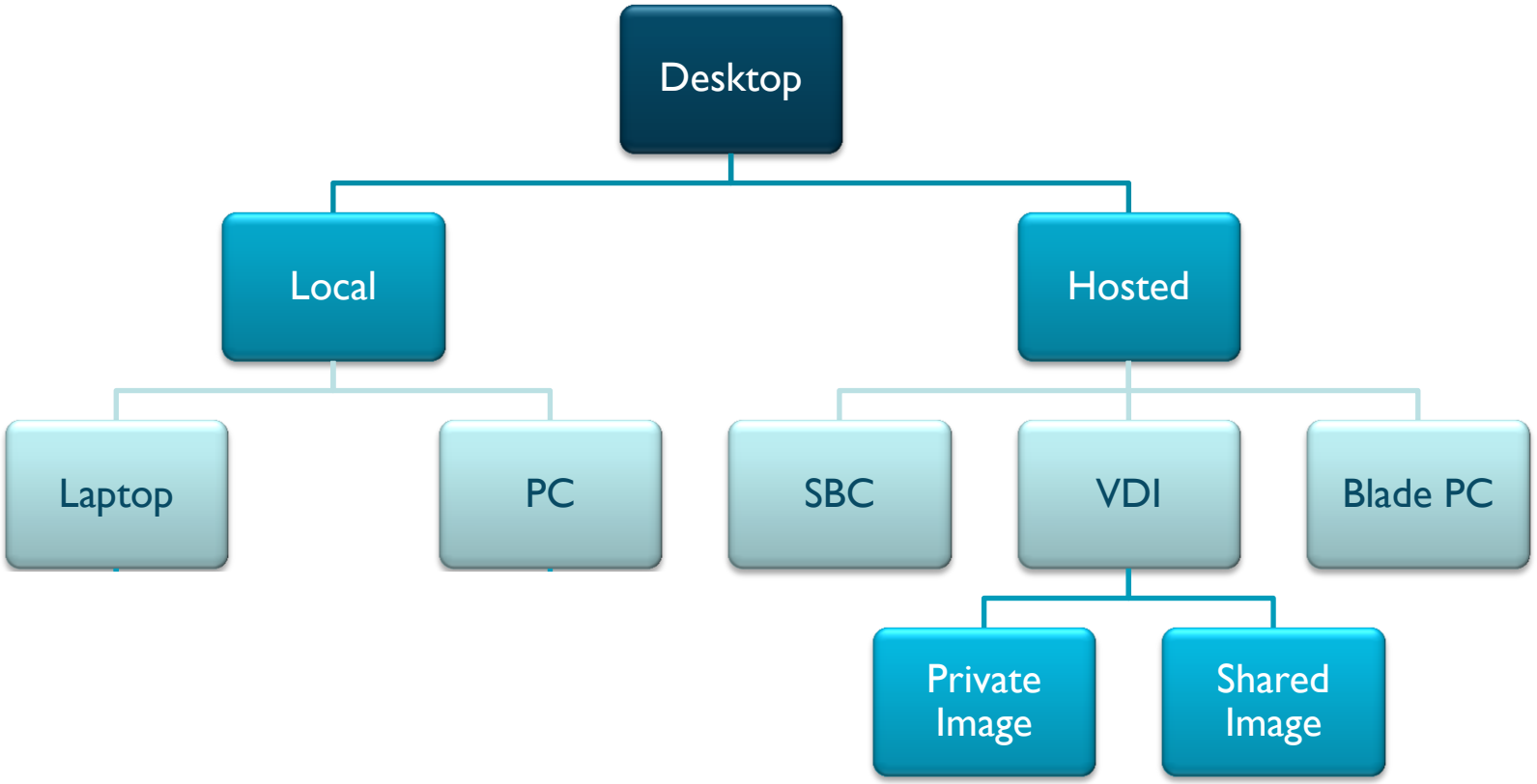
Data Center

Log•in consultants

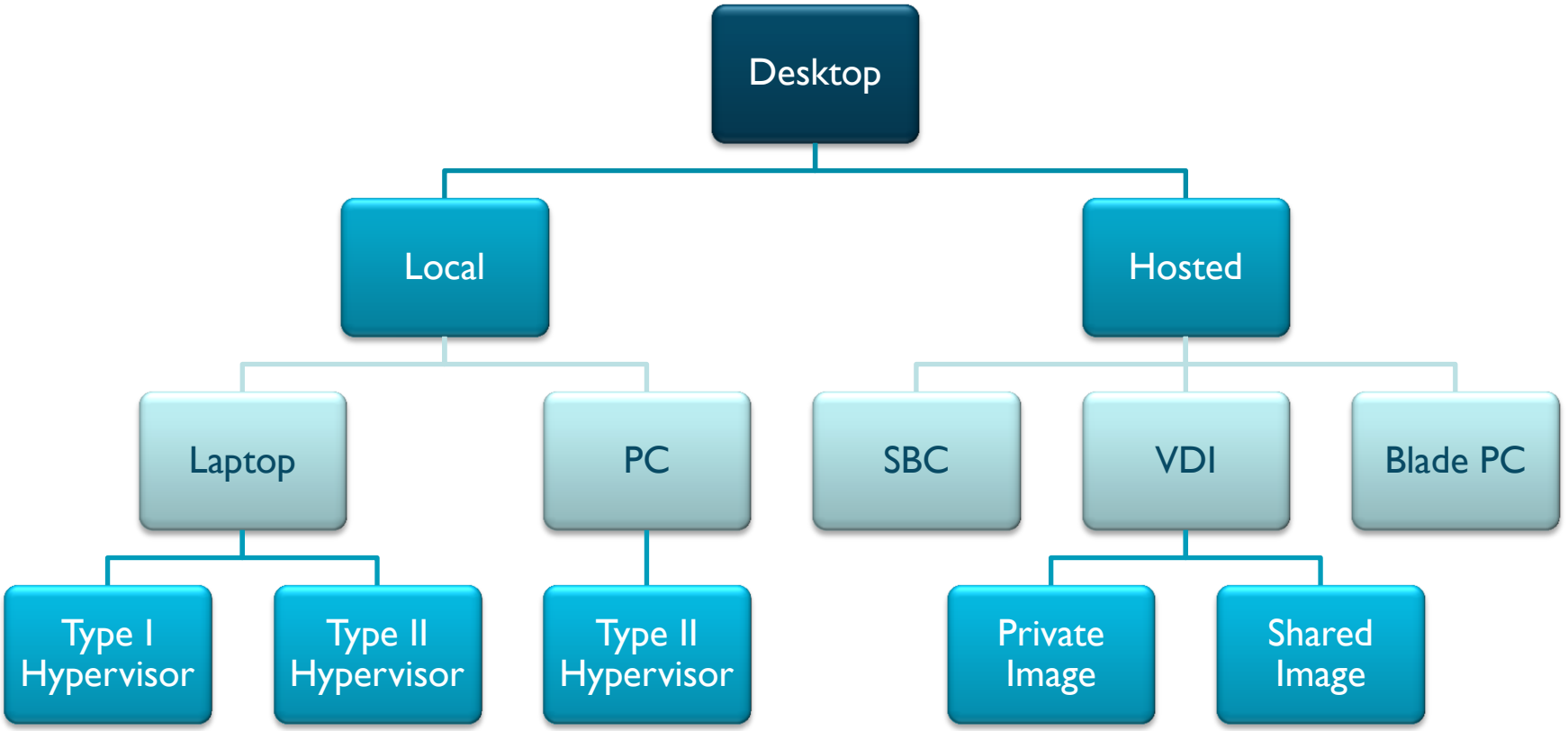
SBC vs VDI


You Tube
SAP
fr

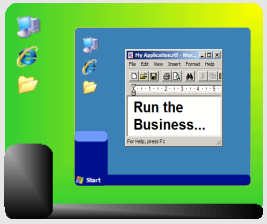
Desktop 2.0


Desktop
Local
Hosted
Laptop
PC
SBC
VDI
Blade PC
Private Image
Shared Image

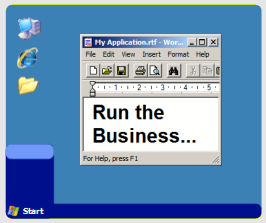
Desktop 2.0


Desktop
Local
Hosted
Laptop
PC
SBC
VDI
Blade PC
Type I Hypervisor
Type II Hypervisor
Type II Hypervisor
Private Image
Shared Image

Client side VDI: Type I vs Type II



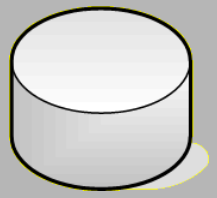
Local Virtual Desktop (Type II)



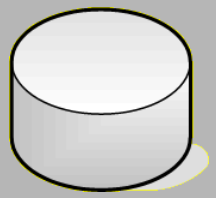
Client Hypervisor Type I

Data

Data



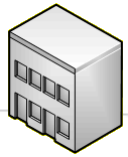
Application



Application

PC / Laptop

Network



Data Center

VDI?

Developers


00:00
00:28

Centralization

Green IT

Windows Upgrade


TM

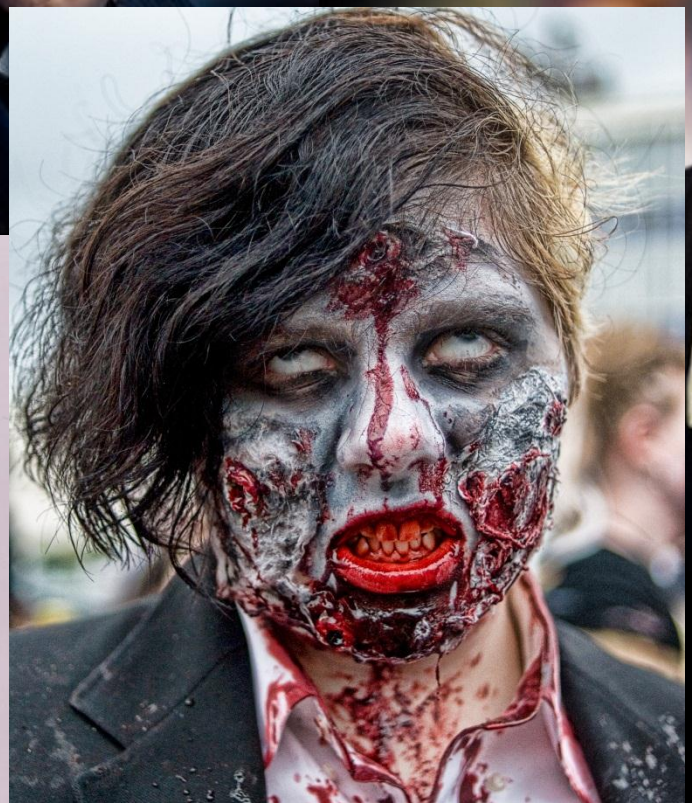
‘Het Nieuwe Werken’


DIVING
CREW
JUST VISITING
THIS PLANET
SLIPPERY NOODLE INN
HTML 4

Disaster Recovery


van tilburgen
9-VDN-84
18-SK-LF
TR-RJ-13
60-PS-HD





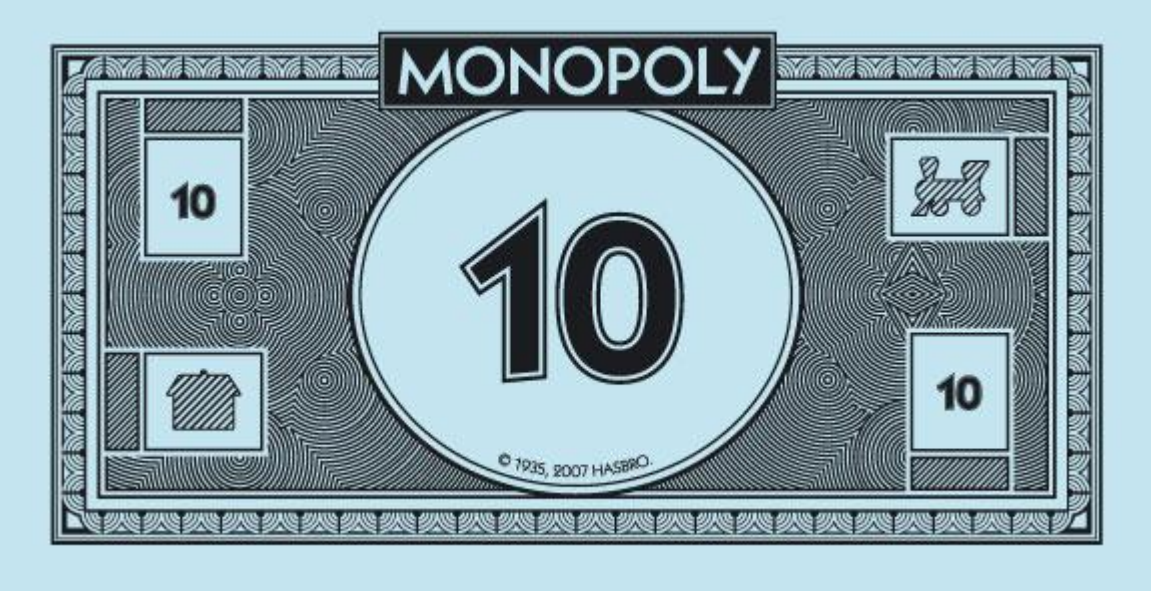

Vandaag acties in openbaar
vervoer. Geen treinen. Meer
informatie op www.ns.nl
1/2

BYOC


Nerd.
Pretty Boy.


Windows 8

Cost Savings?


MONOPOLY
10
10
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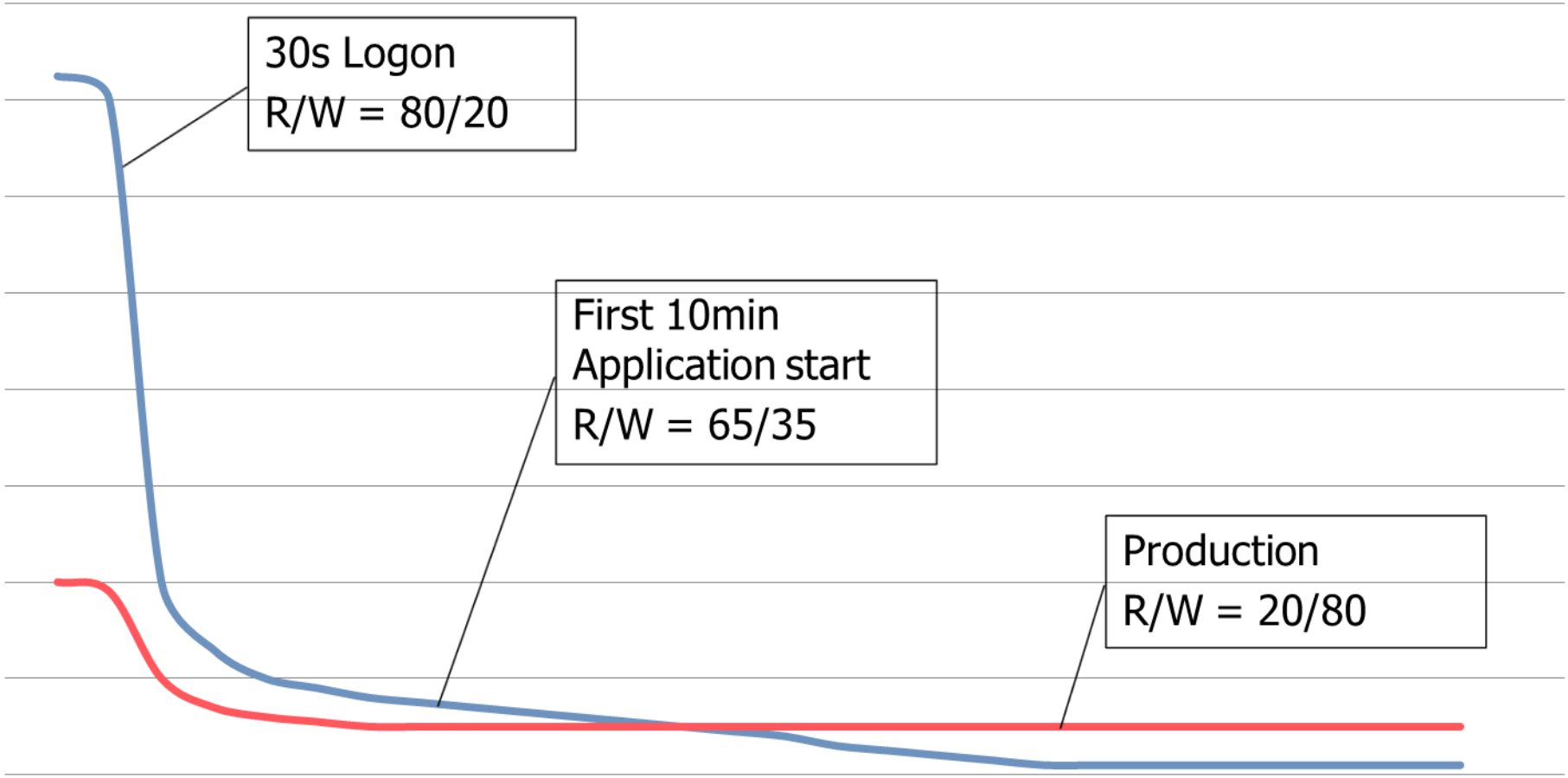
© 1935, 2007 HASBRO.

Desktops as a Service

VDI!

Storage

Read vs Write I/O's

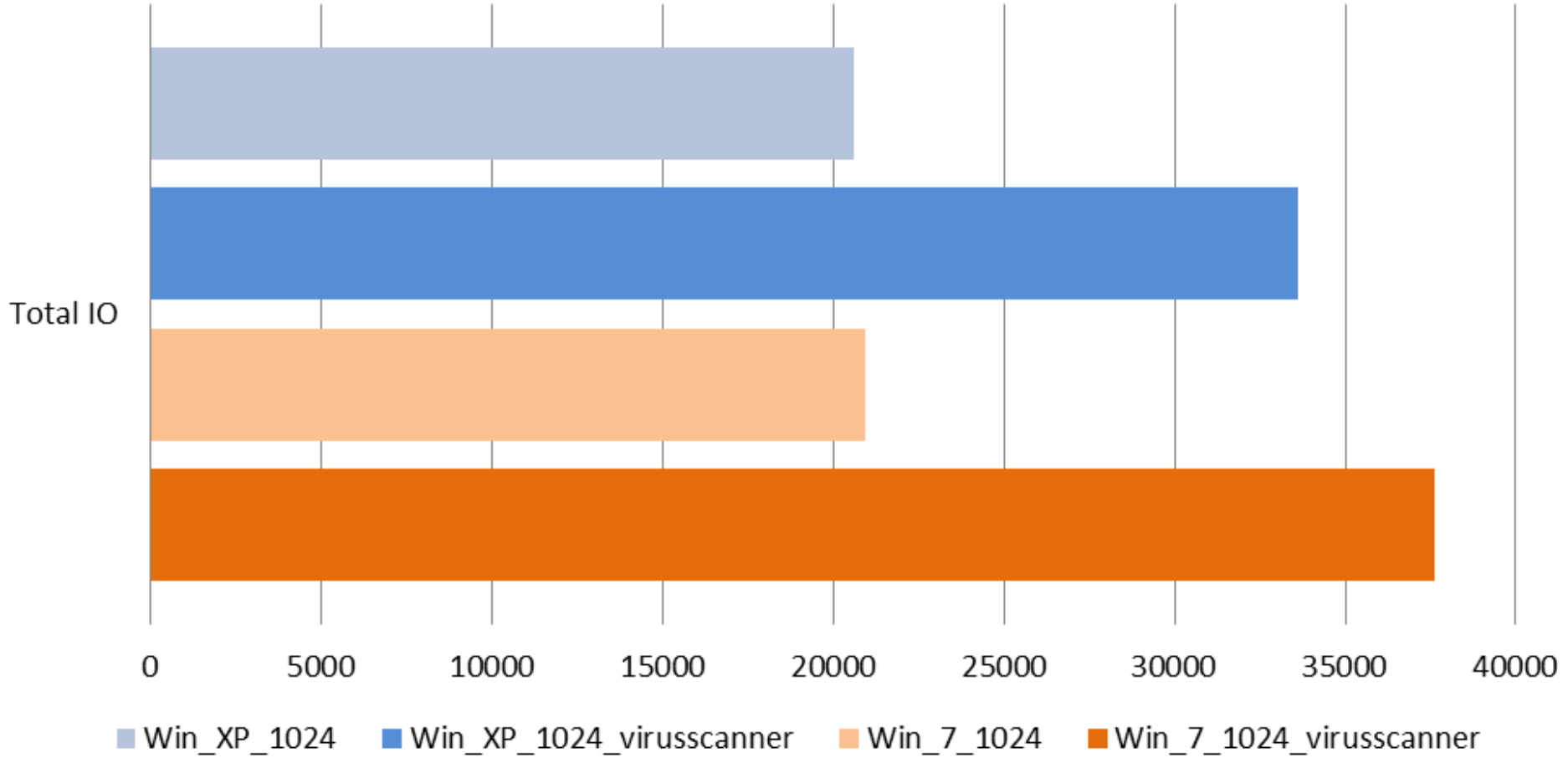


IOPS per Desktop VM

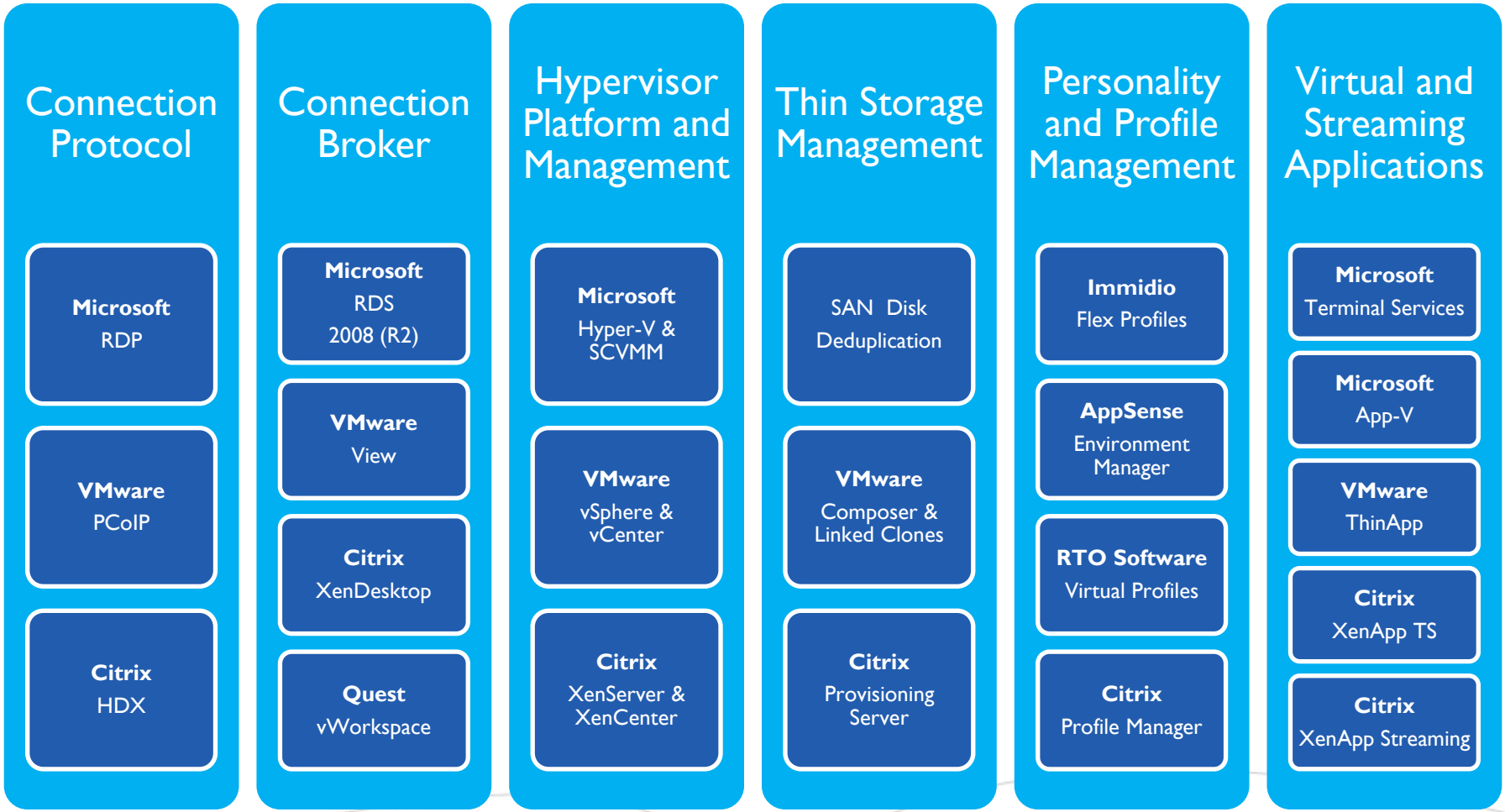
- Light User 3-5 IOPS
- Normal User 7-12 IOPS
- Heavy User 15-30 IOPS

- DEPENDS ON APPLICATIONS! (of course)

VIRUSSCANNER: TOTAL I/O's

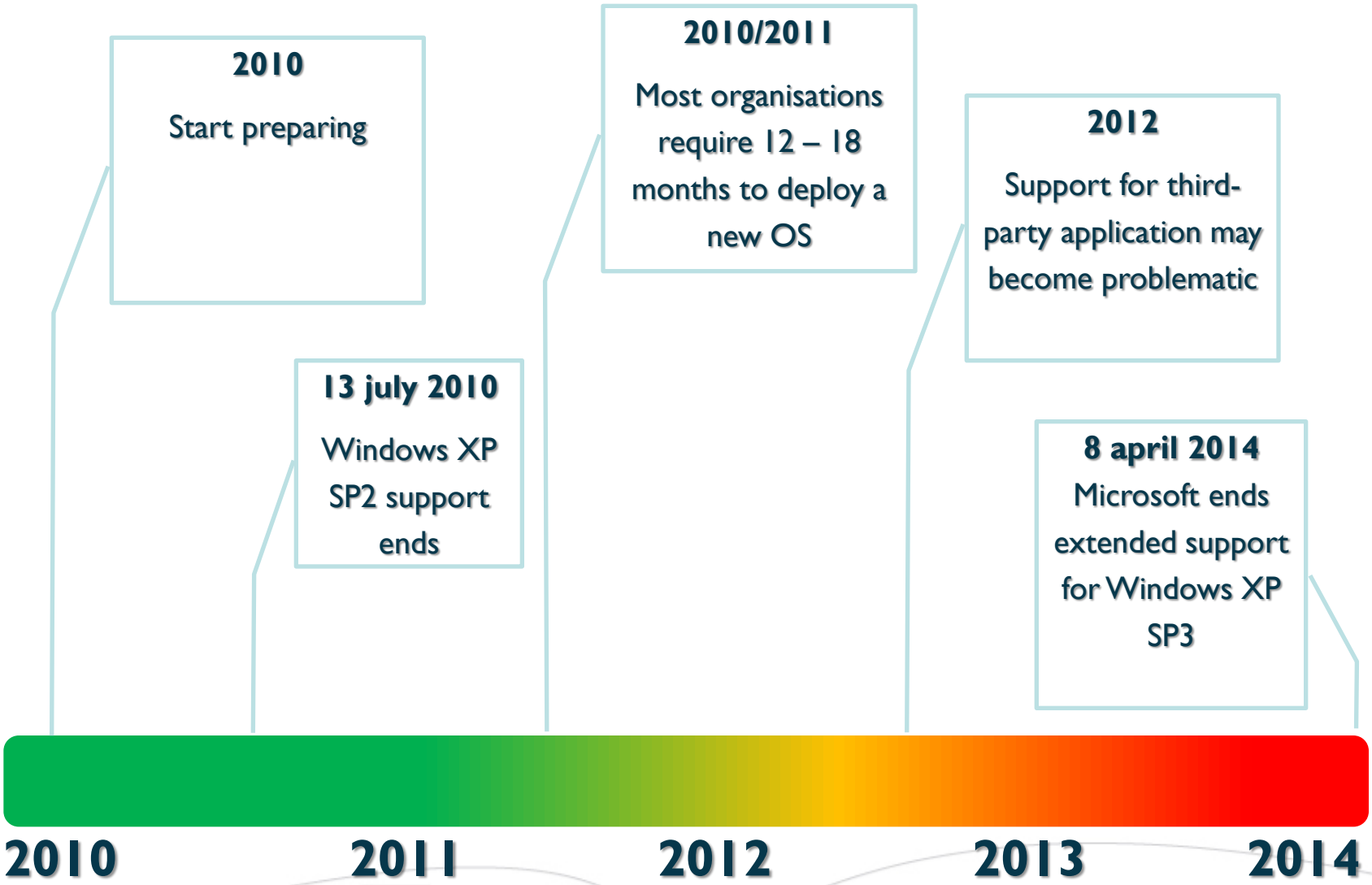


VDI Technologies



Windows 7

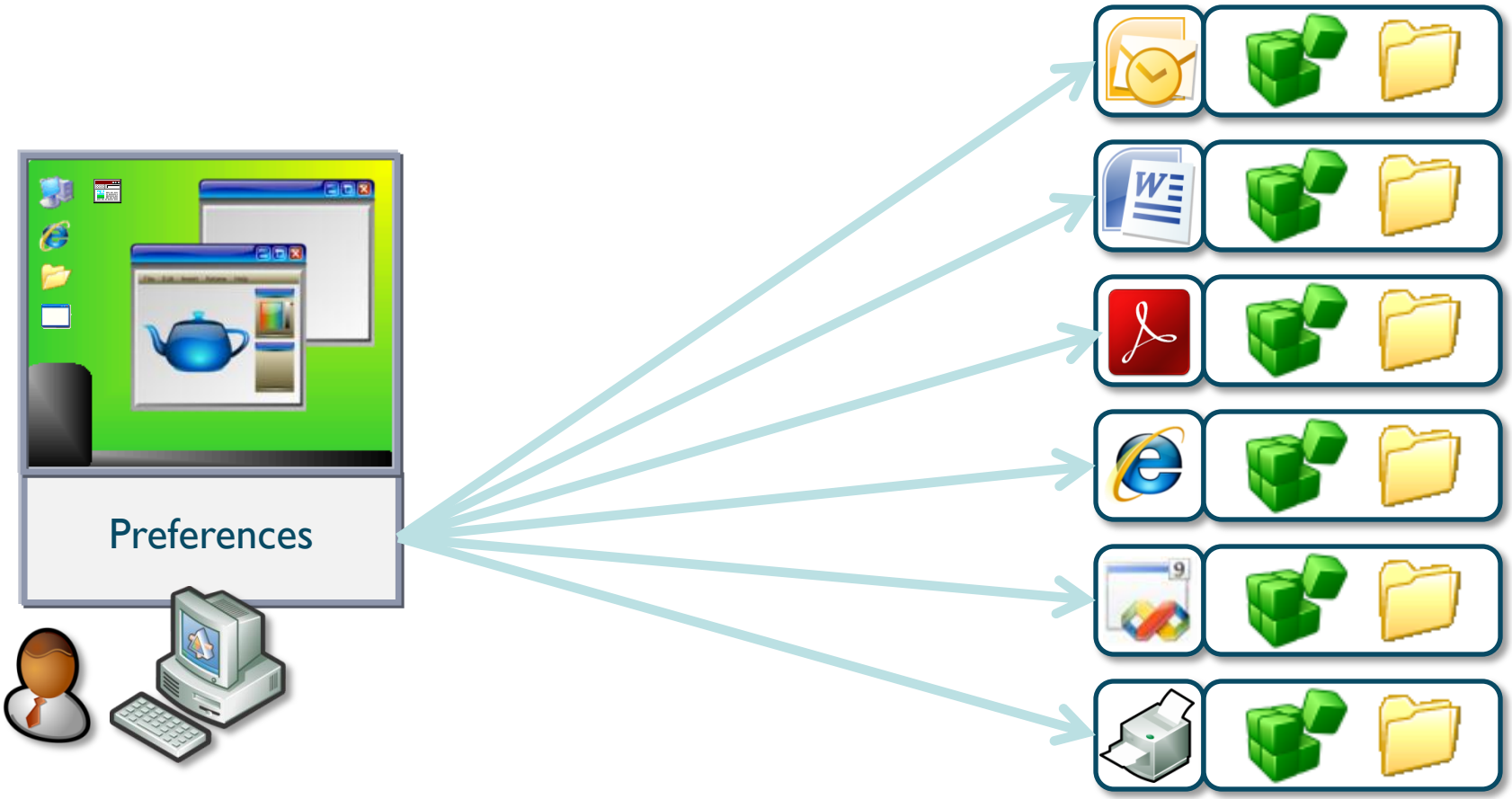
Windows XP Support



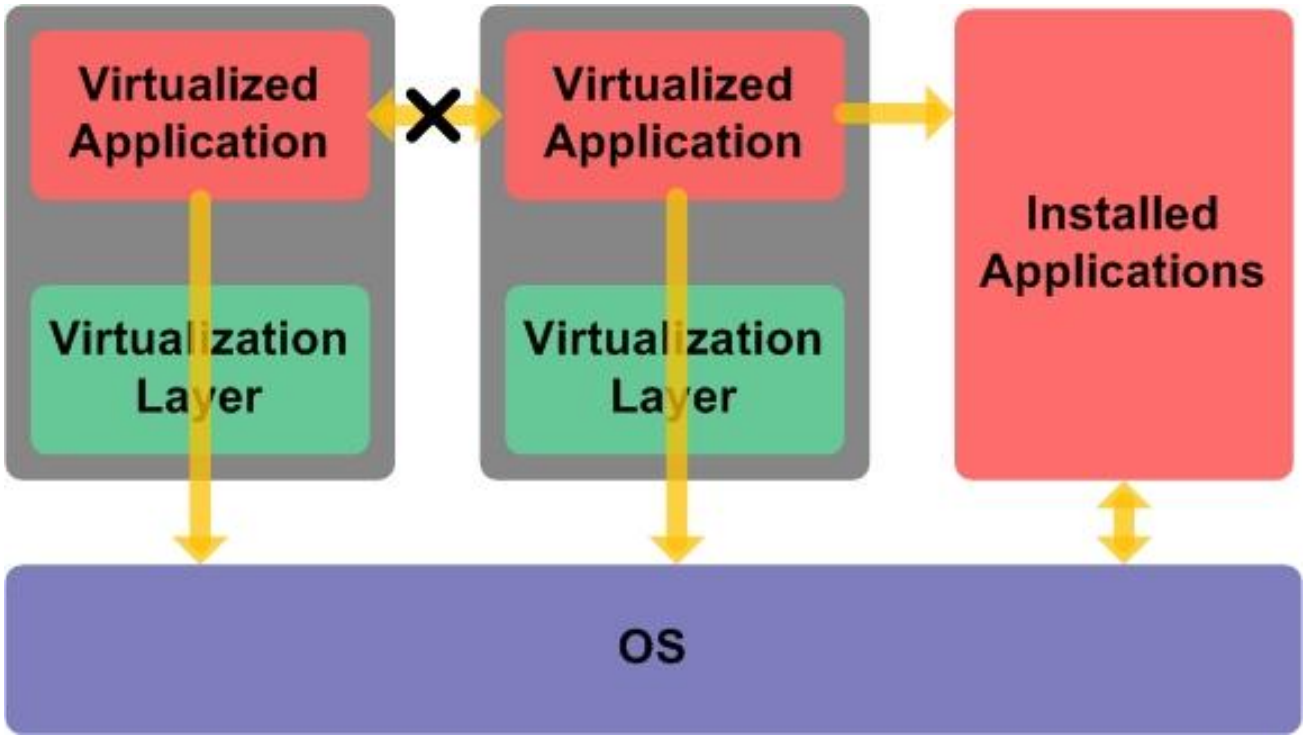
User Profile

VS

Profile virtualization



Application Virtualization

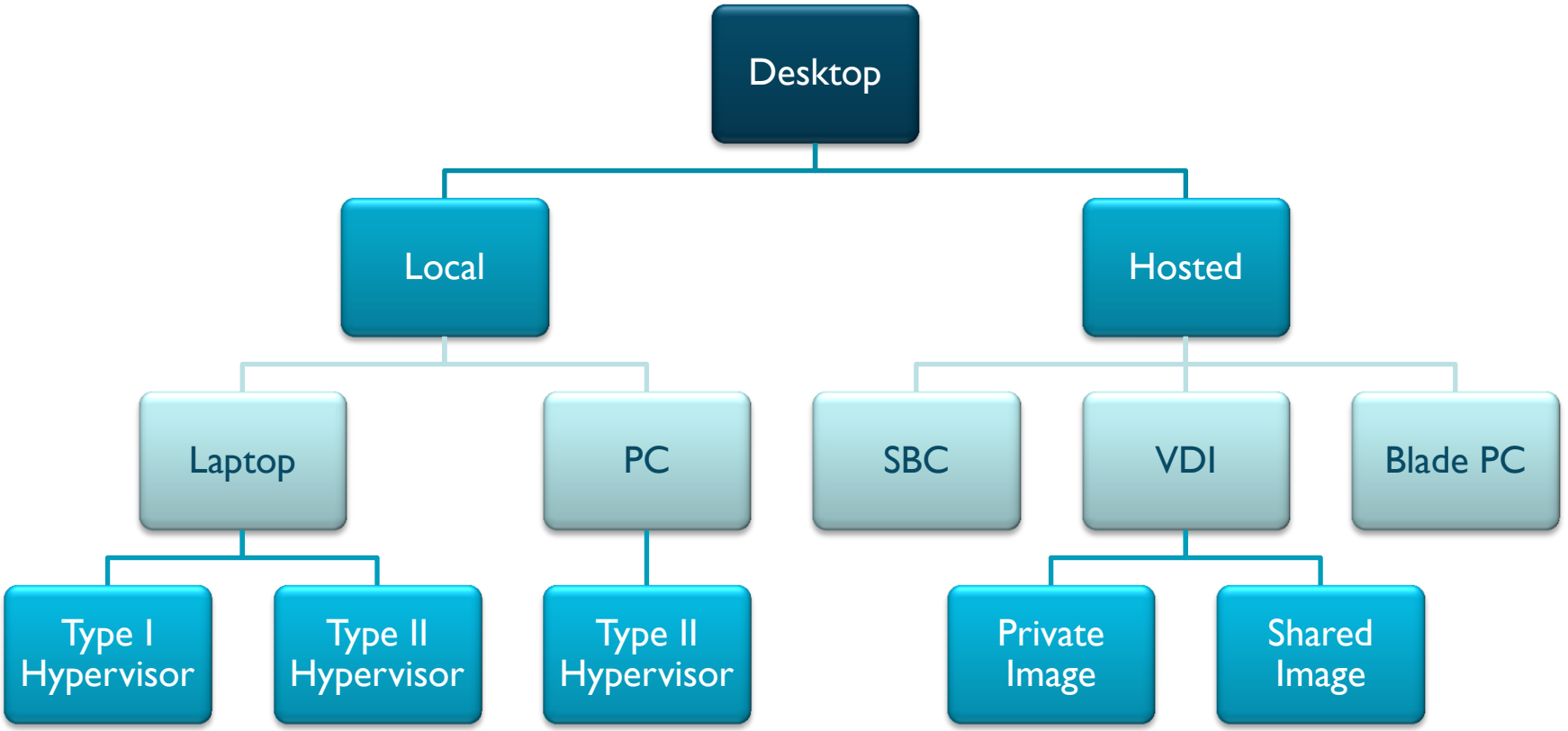


Do not forget your audience!

Proof of Concept: User Experience

Conclusion

Desktop 2.0


Desktop
Local
Hosted
Laptop
PC
SBC
VDI
Blade PC
Type I Hypervisor
Type II Hypervisor
Type II Hypervisor
Private Image
Shared Image


CITRIX
NetApp
CISCO
EMC²
where information lives
vmware