

Mostly Sunny, with a Chance of Thunderstorms

Is there a Cloud in your future?

MTP 4037

Wednesday October 12, 2016 9:45 AM

Alan Hood

Hood Software Solutions

Alan.Hood@comcast.net

Copyright © 2016 Hood Software Solutions LLC



Hood Software Solutions

Software Solutions For Your Business Problems

View this presentation online at

<http://www.HoodSoftwareSolutions.com/UNITE>

Is there a Cloud in your future?

The short answer is Yes
In fact, you might already be a Cloud user



Hood Software Solutions

Software Solutions For Your Business Problems

You *Might* be a Cloud User...

Copyright © 2016 Hood Software Solutions LLC

- If you have a Smartphone, Tablet, or other mobile device
 - You might be a Cloud user
- If your email address is anything other than your company name (gmail.com, yahoo.com, outlook.com....)
 - You might be a Cloud user
- If you access your applications via a web browser or mobile app
 - You might be a Cloud user
- If you don't know where the server is located, what OS it is running, or who is actually managing it
 - You might be a Cloud user
- If you use Dropbox, OneDrive, Office 365, Google Docs, Salesforce, Azure, AWS...
 - You *Are* a Cloud user

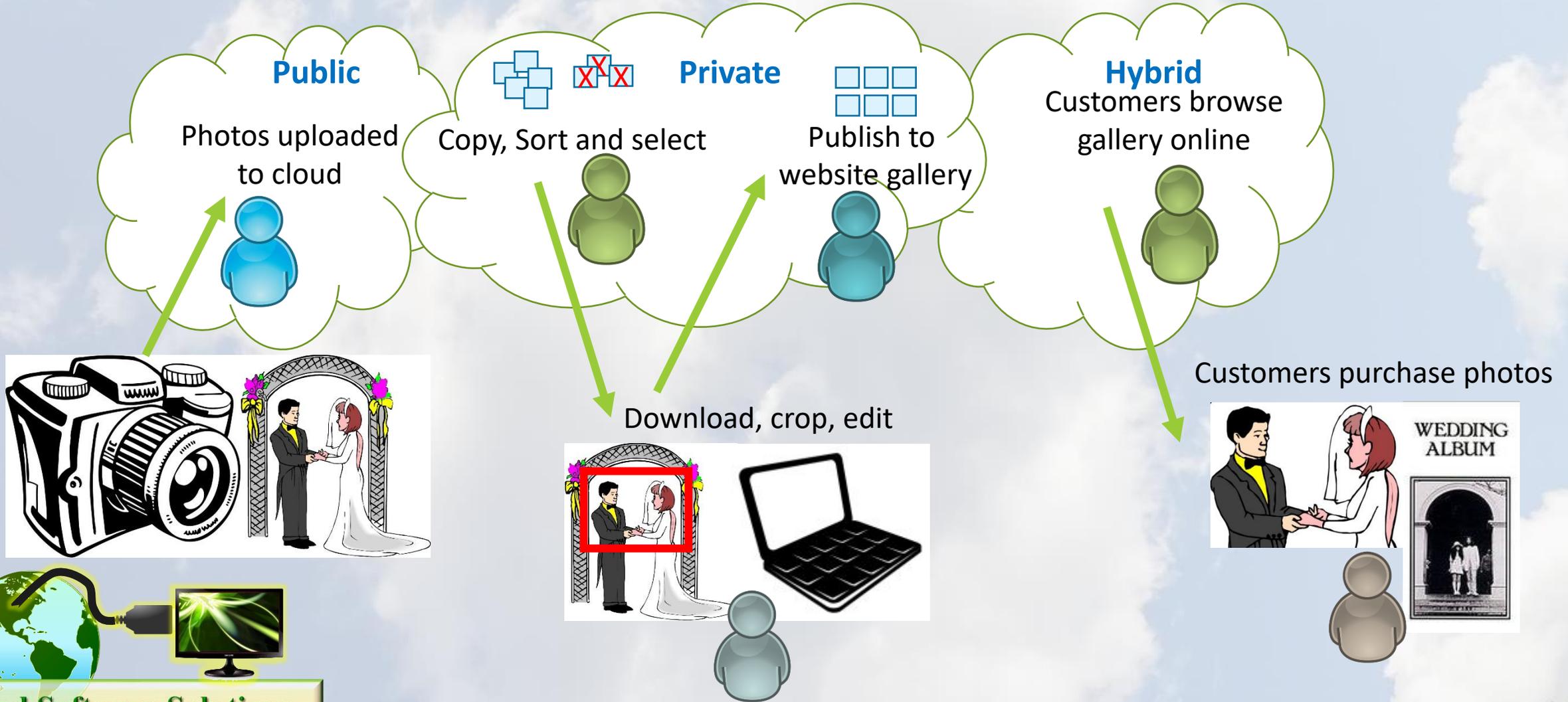


Hood Software Solutions

Software Solutions For Your Business Problems

On the other hand, if you access your applications from a fixed location, using a character-based terminal or emulator, or if your application involves a lot of archaic external interfaces (like tape drives), you probably are not a Cloud user.

Cloud example – professional photographer



Characteristics (Goals) of Cloud Computing

- Agility – improved flexibility
- Cost reduction – moving from capital expenditure to operational expenditure
- Device and location independence
- Easier maintenance
- Multitenancy
- Performance (monitoring and SLA fulfillment)
- Productivity
- Reliability
- Scalability and elasticity
- Security



Hood Software Solutions

Software Solutions For Your Business Problems

Source: Wikipedia.org Cloud computing

Common Types of Cloud Computing

XaaS (“X” as a Service)

- IaaS – Infrastructure as a Service
 - Machines (virtual), Servers, Network, Storage, Load Balancing
- PaaS – Platform as a Service
 - Database, Web server, Dev Tools, Execution runtime
- SaaS – Software as a Service
 - Email, CRM, Virtual Desktop, Communications, Gaming
- On Premise vs. Off Premise
- Private – Public – Community – Hybrid



Hood Software Solutions

Software Solutions For Your Business Problems

Some related models

- Client-Server model
 - Distributed application, with roles for service providers (servers) and service requestors (clients)
- Service Bureau
 - Provides “off premise” computer resources
- Grid Computing
 - Distributed, loosely coupled computers, sharing resources to complete an application
- Peer-to-peer
 - A form of distributed architecture with no central control or coordination



Hood Software Solutions

Software Solutions For Your Business Problems

Are there other types of Clouds?

- Private / Public / Hybrid
 - It's a case of where it is located and how it is managed
- XaaS – “X” as a Service
 - Choose anything for X – someone will probably call it a Cloud architecture
- Is a Virtual Machine (VM) a Cloud?
 - Maybe, but not always.
 - VM is often used in a Cloud architecture
- Is a Service Bureau a Cloud?
 - Maybe
- Is ClearPath Forward a Cloud?

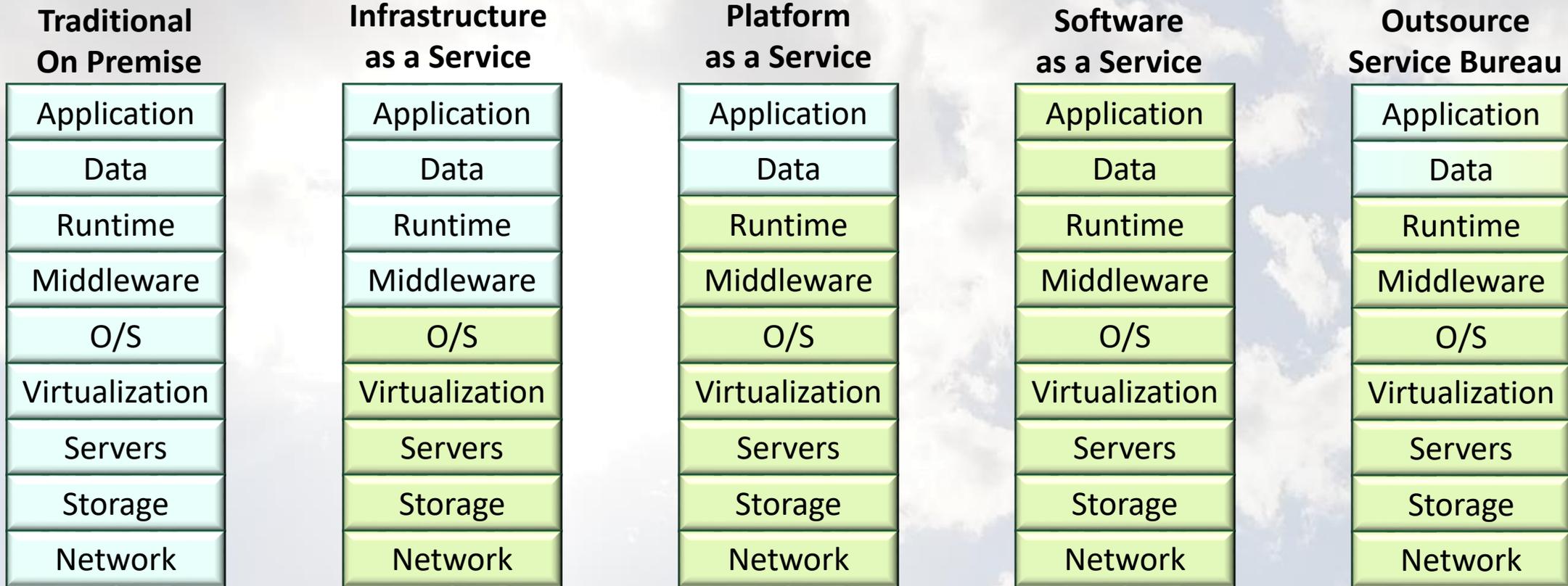
ClearPath Forward has many features in common with Cloud



Hood Software Solutions

Software Solutions For Your Business Problems

Degrees of control and management



Managed by You

Managed by Provider



Hood Software Solutions

Software Solutions For Your Business Problems

Some impediments or concerns about Cloud

- Data motion
 - If your application requires a very large database, consider the time required to move that data from on premise to a remote Cloud
 - A Hybrid solution that allows the application to access the data locally, but off-board less data-intensive transactions may be a better solution
 - E.g. Consider Look vs. Buy problem in travel industry
- Highly volatile transaction load
 - Consider the time required to provision a new Cloud environment
- Security
 - Consider physical security as well as transactional security (e.g. hacking, DDOS attacks, Malware...)



Hood Software Solutions

Software Solutions For Your Business Problems

What makes an application a good Cloud candidate?

Characteristic	Traditional	Private	Hybrid	Public
Primarily uses character based terminal interface	√			
Security and data integrity paramount	√	√	√	
Very large data volume	√	√	√	
Requires access to legacy applications a data	√	√	√	
Performance critical, high volume transactions	√	√	√	
Web or Mobile user interface	√	√	√	√
Some periodic shift in volume (e.g. seasonal sales increases)	√	√	√	√
Highly scalable, resilient application architecture	√	√	√	√



Hood Software Solutions

Software Solutions For Your Business Problems

Additional Resources



Hood Software Solutions

Software Solutions For Your Business Problems

From Microsoft – 10 Myths about Moving to the Cloud

Myths

- 1 Office 365 is just Office tools in the cloud, and I can only use it online.
- 2 If our data moves to the cloud, our business will no longer have control over our technology.
- 3 Keeping data on-premises is safer than in the cloud.
- 4 I have to move everything to the cloud; it is an all-or-nothing scenario.
- 5 Cloud migration is too much for my business to handle.
- 6 Corporate spies, cyberthieves, and governments will have access to my data if it is in the cloud.
- 7 I have to learn all new tools to manage SharePoint Online.
- 8 Skype and Skype for Business are one and the same.
- 9 Email isn't any simpler in the cloud.
- 10 Continuously updating Office 365 will break my critical business applications.

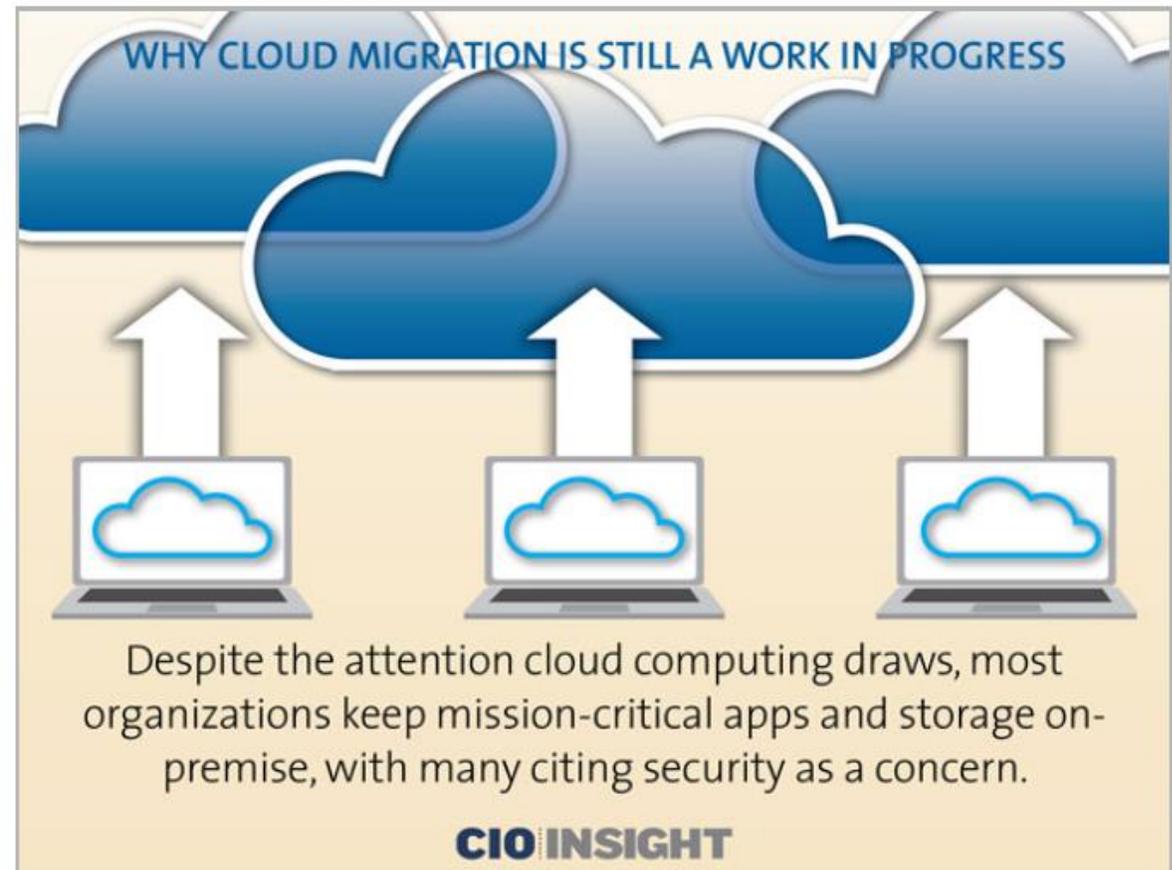


Hood Software Solutions

Software Solutions For Your Business Problems

From CIO Insight

- They cite concerns about security as the greatest challenge to Cloud adoption
- Mission critical apps will stay on premise



Why Cloud Migration Is Still a Work in Progress

Despite the attention cloud computing draws, most organizations keep mission-critical apps and storage on-premise, with many citing security as a concern.

<http://www.ciainsight.com/it-strategy/cloud-virtualization/slideshows/why-cloud-migration-is-still-a-work-in-progress.html>



Hood Software Solutions

Software Solutions For Your Business Problems

From Unisys

Unisys Study Shows U.S. CIOs Leading the Charge to the Cloud

- 72% say CIO is their organization's primary driver of cloud migration
- 63% say cost reduction is a key motivation for cloud adoption
- 62% cite on-demand access to computing capacity as key cloud benefit
- 67% see at least half of IT resources in the cloud by 2018
- 42% cite security as the biggest challenge in cloud management



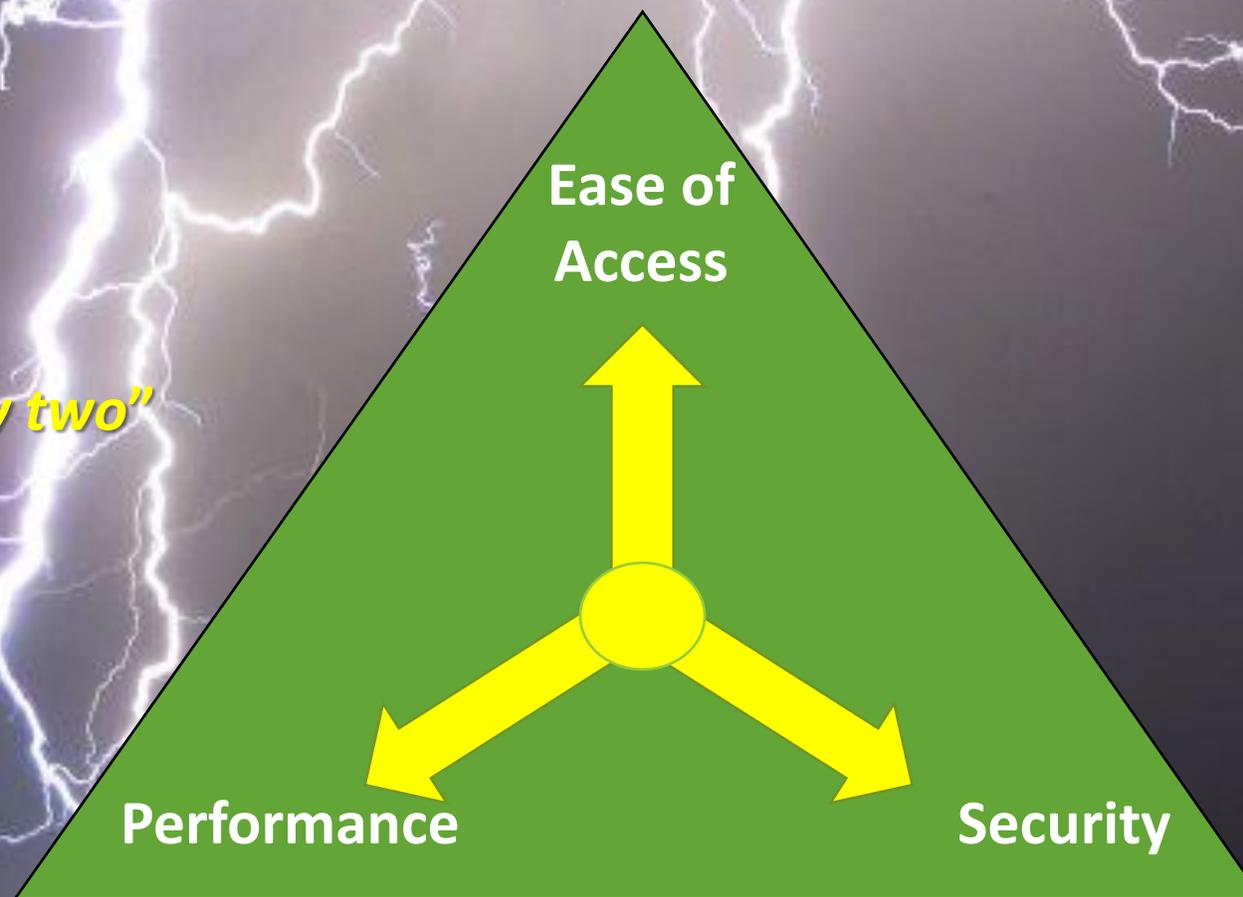
Hood Software Solutions

Software Solutions For Your Business Problems

<http://www.unisys.com/offerings/cloud-and-enterprise-compute-services/news%20release/unisys-study-shows-us-cios-leading-charge-to-cloud>

- **Ease of Access**
- **Performance**
- **Security**

"You can have any two"



Hood Software Solutions

Software Solutions For Your Business Problems

ClearPath Forward

- Supports premium ClearPath operating environments (MCP, OS 2200)
- Supports Unisys defined images for Linux and Windows
- Support user defined (and managed) partitions
- Partitions provisioned and administered using a portal
- Highly scalable and resilient
- Very secure

ClearPath Forward could be a component in a
Private or Hybrid Cloud architecture



Hood Software Solutions

Software Solutions For Your Business Problems

What about your core application?

- Agile Business Suite
 - Supports ASP .NET and Web Services interface
 - Available for ClearPath MCP (private) and Windows .NET (private, public)
 - Works with ClearPath ePortal
- Business Information Server
 - Supports browser and service oriented interfaces
 - Supports ClearPath OS 2200 (private) and Windows/Linux (private, public)
- COBOL and other 3GL
 - Works with ClearPath ePortal and various web enabling technologies



Functionality driven by browser interfaces or wrapped as services can easily become part of a private Cloud environment, with appropriate security and control



Hood Software Solutions

Software Solutions For Your Business Problems

STEALTH™

More information about Stealth from Unisys at
<https://unisyssecurity.com/unisys-stealth/>

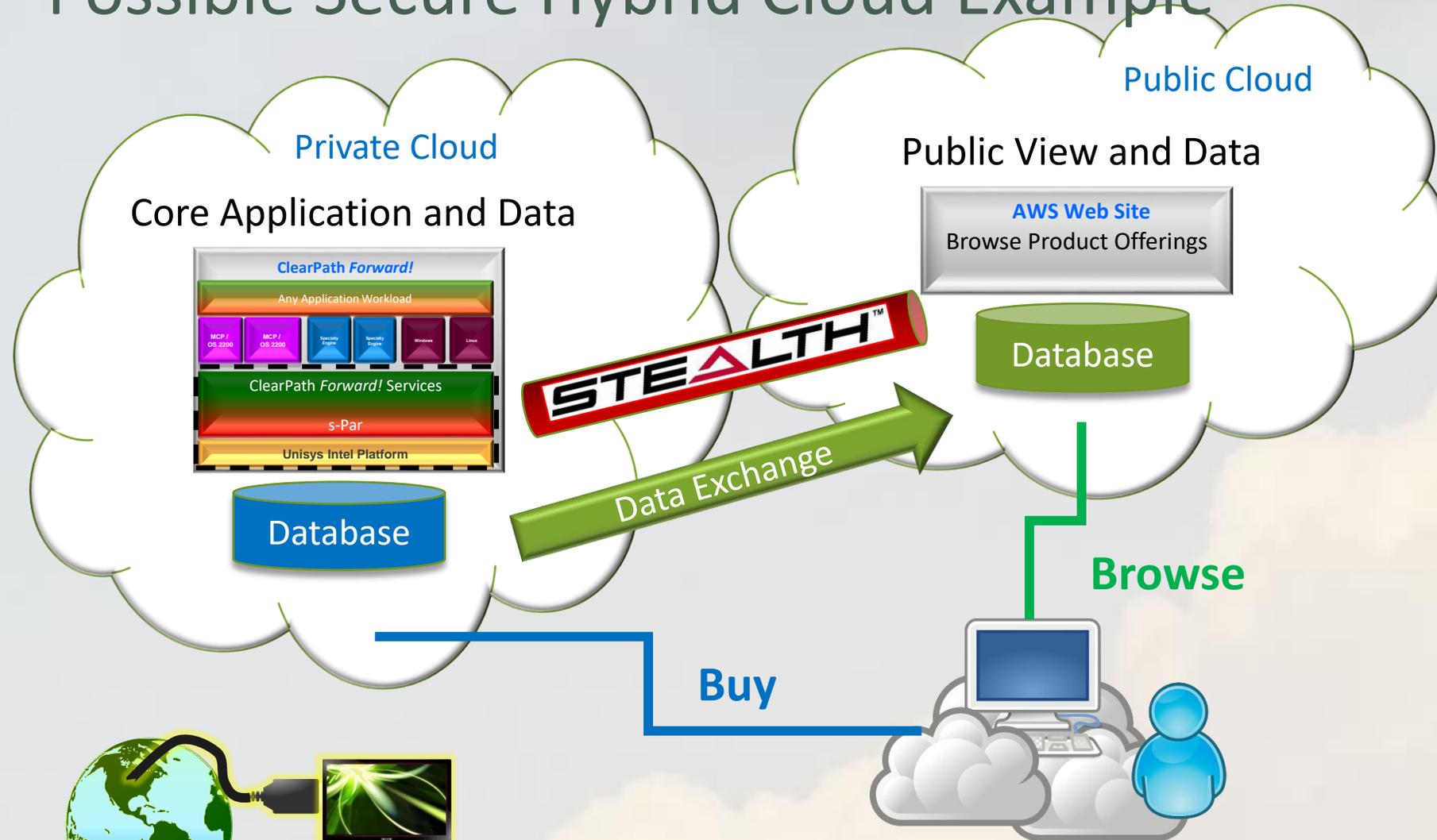


Hood Software Solutions

Software Solutions For Your Business Problems

Possible Secure Hybrid Cloud Example

Copyright © 2016 Hood Software Solutions LLC



- Core functionality resides in ClearPath
- Off load Browse/Look functionality to Public Cloud (e.g. AWS)
 - Update in “near Real Time” with Data Exchange
- Users Browse Public Cloud
- When ready to buy, Login switches them to Core application
- Purchase is made on secure Core application (ClearPath Forward) protected by Stealth



Hood Software Solutions

Software Solutions For Your Business Problems

About Hood Software Solutions

- I have been associated with AB Suite and its predecessors for many (many, many, many) years, as an engineer, architect, program manager, and technical consultant.
- Last year I formed Hood Software Solutions to help people solve their business problems with the aid of software solutions.
- I do not represent Unisys, but I do work closely with them.
- My expertise includes EAE and AB Suite, but also much more.

How can I help you?

- Application Design and modernization
 - Restructuring
 - Web, GUI, Mobile modernization
 - Requirements gathering, prioritization, planning
- System Architecture and Planning
- AB Suite or EAE training and mentoring
- AB Suite migration
- Agile development processes
- AB Suite or EAE application design audits
- Application development, coding and mentoring



Hood Software Solutions

Software Solutions For Your Business Problems

Contact me at:

Alan.Hood@comcast.net

<http://www.HoodSoftwareSolutions.com>

Is there a Cloud in your future?

Probably.

Hopefully this has given you some points to think about to help make your transition to Cloud safe, secure, and as easy as possible.

Thank you

Alan.Hood@comcast.net

<http://www.HoodSoftwareSolutions.com>



Hood Software Solutions

Software Solutions For Your Business Problems

Content and format of this presentation is Copyright © 2016 Hood Software Solutions LLC. Trademarks and third party products referenced are the property of their respective owners.