

University Technology Services



IT Briefing

Thursday, March 20, 2008

IT briefing

AGENDA FOR FEBRUARY 2008

UPDATES &
ANNOUNCEMENTS

OXFORD WEBSITE

SERVER VIRTUALIZATION

CISO INTRODUCTION

KAREN JENKINS

SETH TEPFER & MAHBUBA
FERDOUSI

STEVE SIEGELMAN

BRETT CORYELL

BRAD SANFORD

general

UPDATES & ANNOUNCEMENTS

WEB HOSTING MIGRATION

- All testing of currently migrated sites must be complete NLT 3/26!!

ENTERPRISE CONTENT MANAGEMENT

- Selected Cascade Server from Hannon Hill!
- Huge higher ed presence (over 50 universities including Duke, Clemson, Cornell, Carnegie Mellon)
- Great reference checks with CMU, Texas A&M Health Sciences Center, and the Medical College of Georgia – outstanding support and responsiveness!
- Healthcare presence as well (although not as large a vertical – about a dozen)
- Easy to use interface
- Standards based XML templates

SERVICE MANAGEMENT TEAM (REMEDY & LANDESK)

- Very limited resources over the next few weeks!

OXFORD WEBSITE REDESIGN

Mahbuba Ferdousi
Seth Tepfer

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APPROACH

- SEND RFP
- VENDOR SELECTION COMMITTEE
- INVITE 3 VENDORS
- UNANIMOUSLY CHOSE DOT MARKETING
- SOLD THE CMS
- UNIVERSITY DID NOT HAVE PLANS FOR CMS
- TALKED WITH JOHN MILLS AND ITPC

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WHY DOTMARKETING

- EDUCATION CUSTOMER BASE
- SURVEYS OF HIGH SCHOOL STUDENTS
- VISUAL APPEAL OF DESIGNS IN PORTFOLIO
- METHODOLOGIES WELL THOUGHT OUT
- THEIR CMS

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WHY DOTMARKETING (CONT)

THEIR CMS

- Written in Java
- Db independent (Oracle, MySQL, SQLServer, etc)
- Runs on Linux and Windows
- LDAP Authentication
- R25 interface experience
- Open Source Product

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CMS ADVANTAGES

- EASE OF END-USER DEVELOPMENT
- BUILT IN GROUPS/ROLES BASED PERMISSIONS
- DYNAMIC DATA
- DESIGN CONTROL
- WORKFLOW PROCESS
- ABILITY TO ROLL-BACK TO PREVIOUS VERSIONS

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CMS ADVANTAGES (CONT)

- EDIT/PREVIEW/LIVE MODES
- LEFT MENU NAVIGATION AND BREADCRUMBS
- PHOTO/VIDEO GALLERY
- STREAMING .MP3 PLAYER
- FORM HANDLING
- WEBDAV

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OUR WEBSITE

- PROSPECT-ORIENTED PHILOSOPHY
- MULTIPLE NAVIGATION METHODS
- NEWS
- EVENTS/CALENDAR
- CMS

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WHAT WE LEARNED

- WE HAVE A LOT OF CONTENT
- NEED MORE ROBUST SEARCH THAN BUILT-IN
- EARLY ADOPTER OF LOAD BALANCER FOR THIS VENDOR
- VENDOR HAS BEEN RESPONSIVE AND STAYED WITH US



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QUESTIONS

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SERVER VIRTUALIZATION

Steve Siegelman

server virtualization

WHY VIRTUALIZE

- SERVER CONSOLIDATION
- COST REDUCTION ON PHYSICAL INFRASTRUCTURE
- HARDWARE BUDGET CUTS
- PROVIDE FAILOVER AND HIGH AVAILABILITY
- PROVIDES MORE OPPORTUNITY FOR SERVER MAINTENANCE DURING NORMAL WORKING HOURS.
- PROVEN, MATURE TECHNOLOGY

server virtualization

TO VM –OR– NOT TO VM

“For any new initiative, it is the direction of UTS to Virtualize first before deploying physical hardware.”

- VM Candidates:
 - Occasionally used development servers
 - Underutilized servers
 - Servers that have seasonal use
 - Application software that the vendor will support running in a VM
- Not VM Candidates:
 - IO intensive applications such as Oracle or SQL Server databases
 - Application software that is unsupported by the vendor in a VM infrastructure

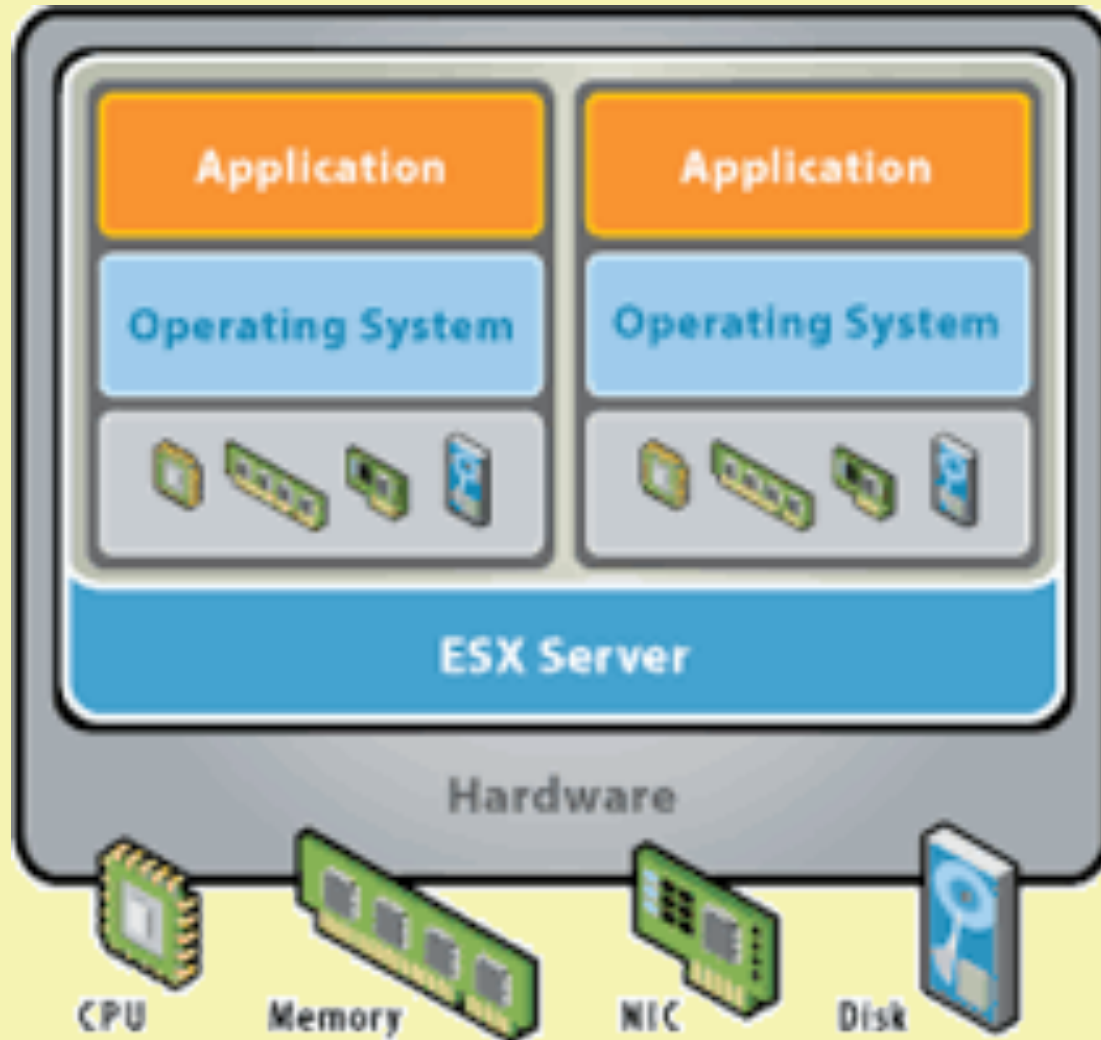
server virtualization

VMWARE VI3

- VMWARE VI3 – SUITE OF PRODUCTS
 - VMWARE ESX SERVER
 - VMWARE VMFS
 - VMWARE HIGH AVAILABILITY (HA)
 - VMWARE DRS
 - VMWARE VMOTION

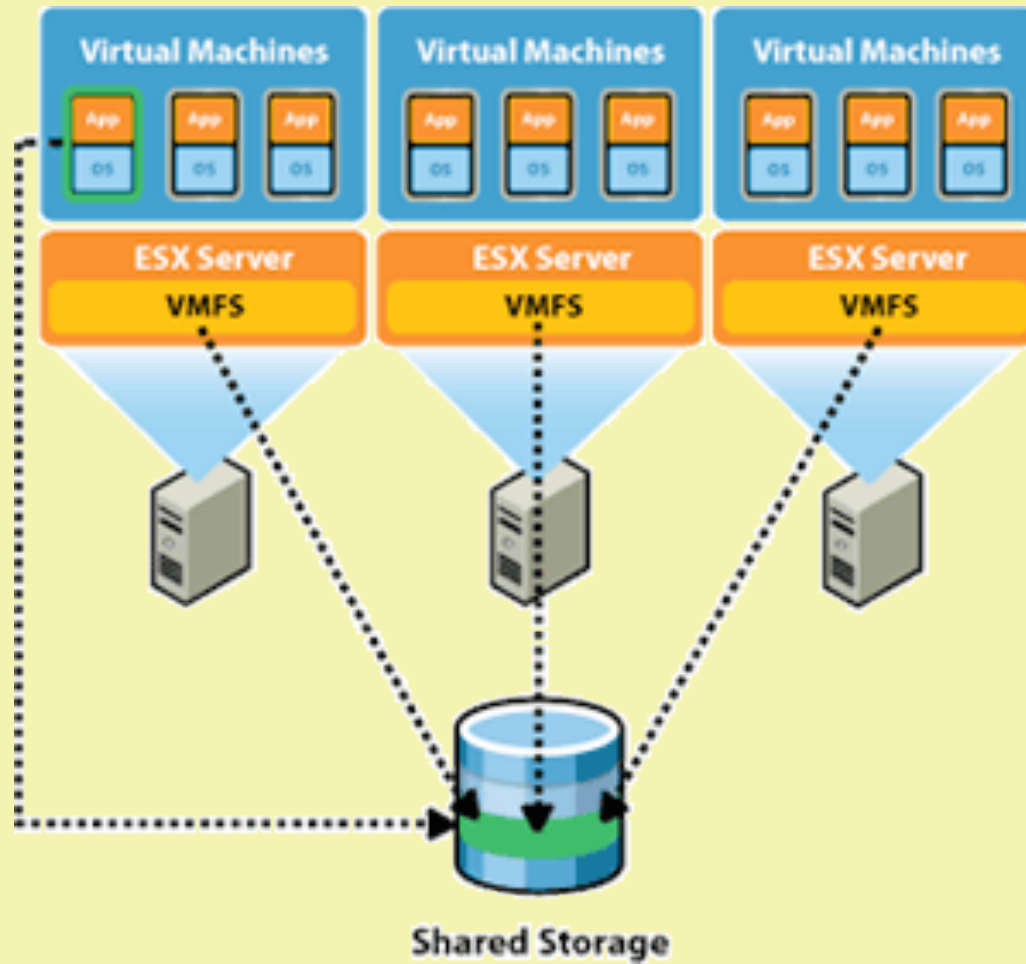
server virtualization

VMWARE ESX SERVER



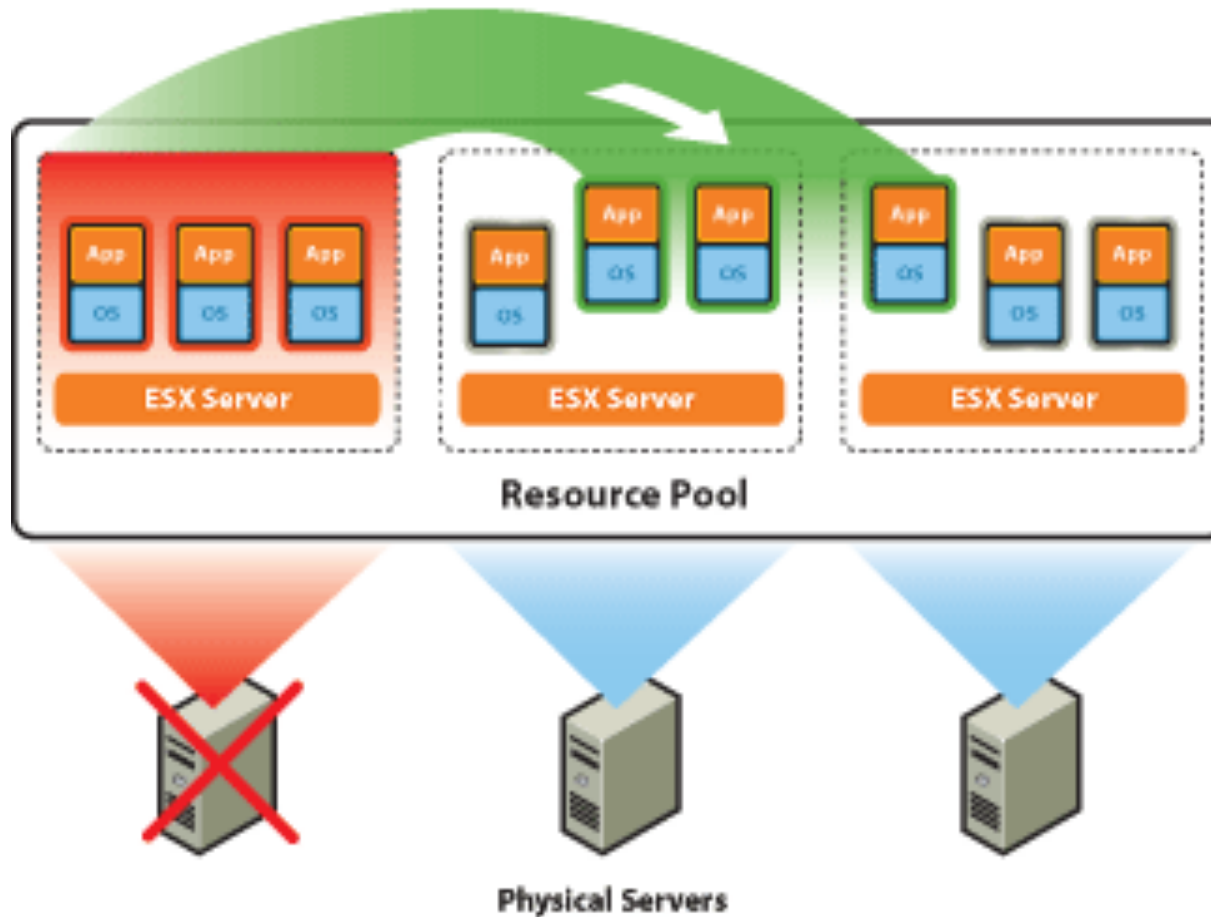
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VMWARE VMFS



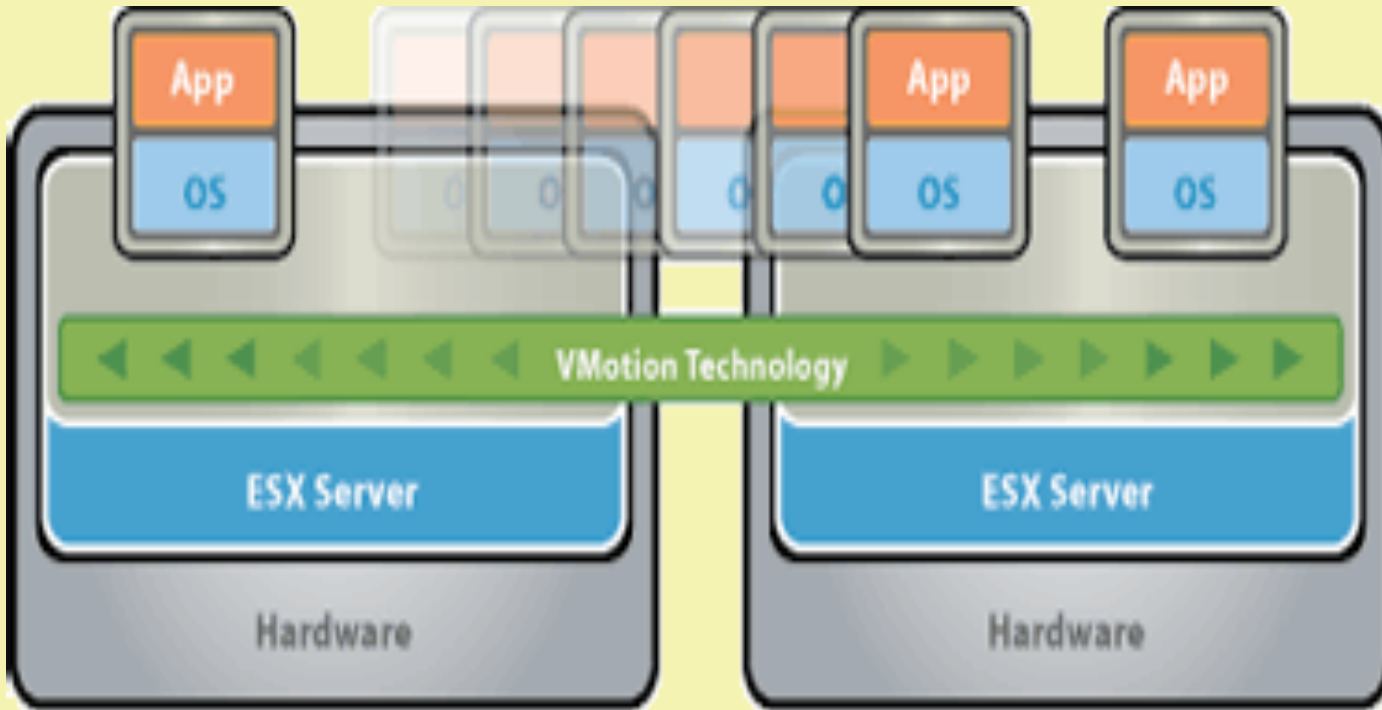
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VMWARE HIGH AVAILABILITY (HA)



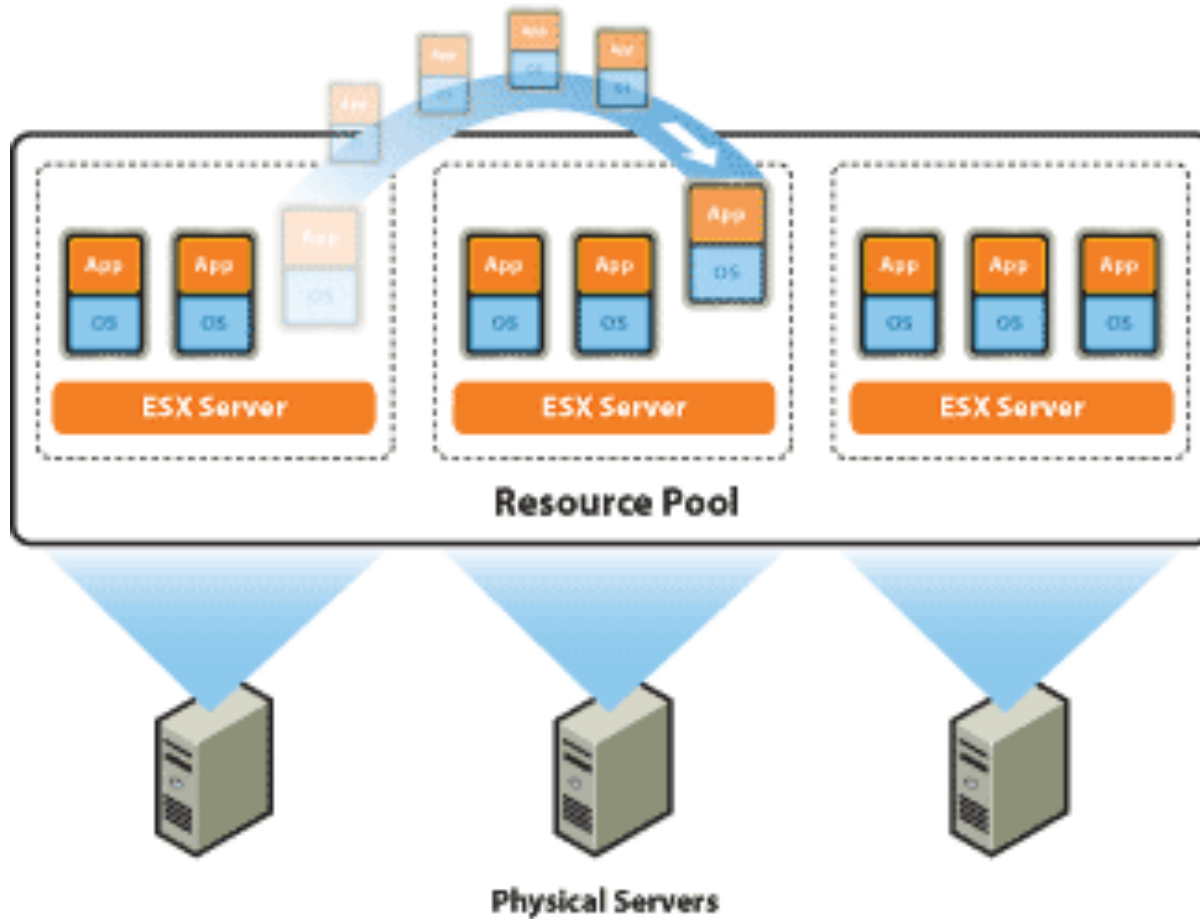
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VMWARE VMOTION



server virtualization

VMWARE DRS



server virtualization

HARDWARE PLATFORM

HP c-Class Blades



server virtualization

PHASE ONE

- TWO VMWARE CLUSTERS
 - 3 NODE CLUSTER – DMZ
 - 3 NODE CLUSTER – ADMIN CORE

- TARGETED VMS
 - 39 VMS – DMZ
 - 23 VMS – ADMIN CORE
 - OSS: WINDOWS 2003, REDHAT LINUX, SOLARIS 10 X86, SLES LINUX

server virtualization

PHASE TWO – FALL '08

- ACADEMIC CORE CLUSTER BUILD OUT
 - 3 NODE CLUSTER – ACADEMIC CORE
- GROW OUT DMZ & ADMIN CORE CLUSTERS AS NEEDED
- CAMPUS WIDE HOSTING OFFERING

A large, light blue question mark graphic that serves as a background for the title text.

Questions

BRAD SANFORD

CHIEF INFORMATION SECURITY OFFICER



Brett Coryell



Introduction and Observations from My First 50 Days

Brad Sanford, CISSP, GSEC, GCIH
Chief Information Security Officer (CISO), Emory

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INTRODUCTION

PERSONAL BIO

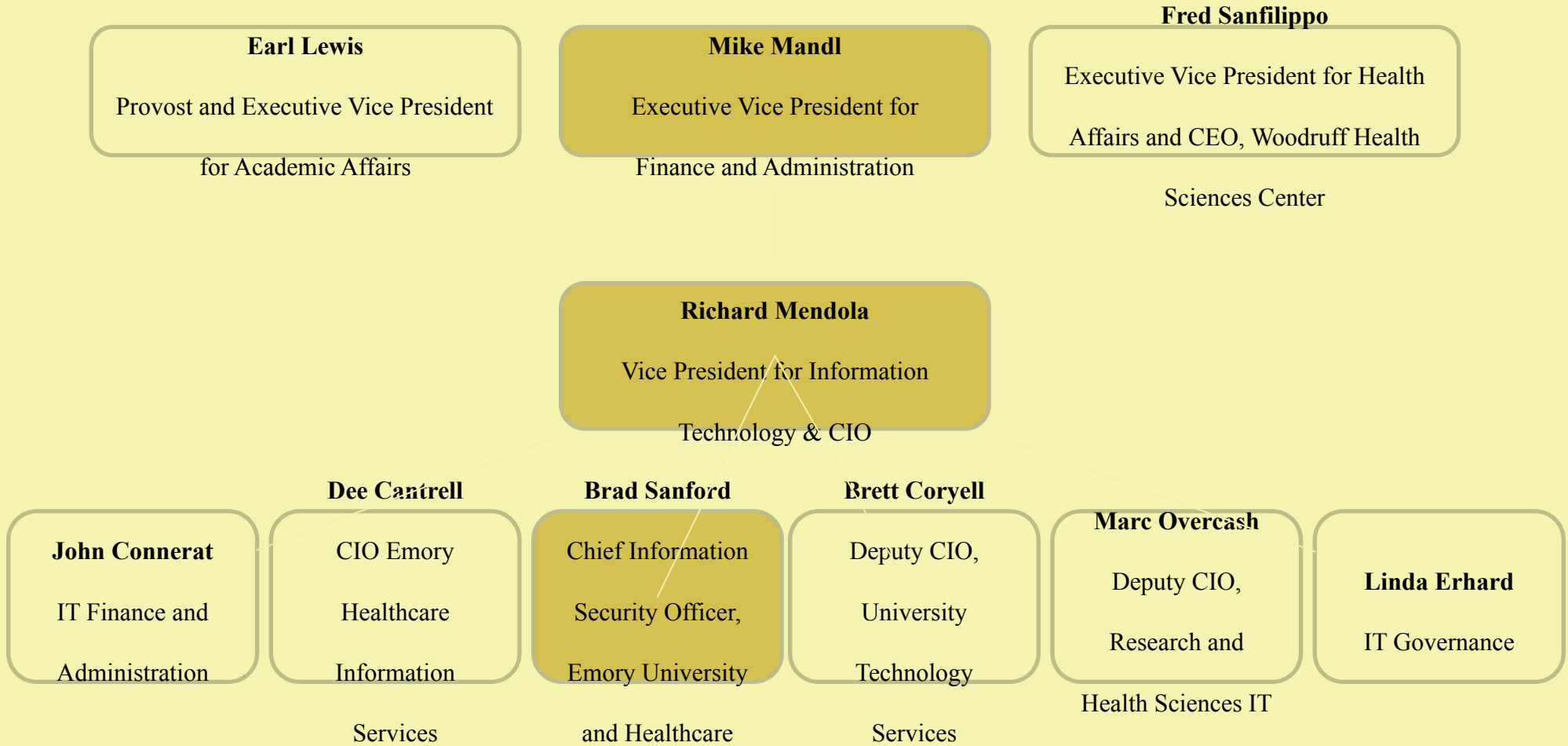
- Kentucky
- Interest in Computers and Security
- Education

WORK BIO

- Humana through HCA
- Vanderbilt
- HCA (Security Assurance & Architecture)

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CISO ROLE AT EMORY



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CISO ROLE AT EMORY

THE CHIEF INFORMATION SECURITY OFFICER IS RESPONSIBLE FOR COORDINATING AND LEADING INFORMATION SECURITY ACTIVITIES ACROSS EMORY UNIVERSITY AND EMORY HEALTHCARE

PRIMARY AREAS OF ACCOUNTABILITY

- Security Policy and Strategy
- Security Awareness
- Security Architecture
- IT Risk Management
 - Security Incident Response
 - Vulnerability Management

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INITIAL OBSERVATIONS

WILLINGNESS TO “DO THE RIGHT THING” IS HIGH

- Awareness is low
- Expectations are unclear

OUR KNOWLEDGE IS LIMITED

- Where does sensitive data reside and how is it protected
 - **But we do know we have a data protection problem**
- What vulnerabilities are putting us at risk and how do we address them
- Who is responsible
- How should we respond to security incidents

DUPLICATION OF EFFORTS ACROSS SCHOOLS AND DEPARTMENTS IS HIGH

- Active Directory
- Virtualization
- Many Others

MANY SECURITY CONTROLS AND OPERATIONAL PROCESSES ARE IMMATURE

- Ad-Hoc
- Limited in Scope / Coverage
- Limited Effectiveness

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SECURITY RELATED INITIATIVES

ONGOING

- Information Gathering
- Security Gap Analysis
- Security Policy Review
- Full Disk and Removable Media Encryption
- Trusted Zone
- Trusted Storage
- Security Strategy

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SECURITY RELATED INITIATIVES

FUTURE

- Security Policy Overhaul
 - Data focused
- Security Awareness Program
- Mobile Device Protection (PDAs, Smartphones, etc.)
- IT Risk Management Program
 - Vulnerability management
 - Expanded HIPAA Risk Assessment
 - PCI Data Security Standard Compliance
- Evolution of Operational Security Capabilities
- Integrate Security Controls into Existing Processes
 - Contracts
 - New-Hire Process
 - IRB



Questions