



Systems Administrator

July 2014

Sharon Welna, Information Security Officer



Today's Presentation

Live Stream

<rtsp://hog.unmc.edu:554/broadcast/itslive.mp4>

If you are having problems accessing a good quality live video stream, contact the UNMC Video Operations Center at 402-559-8090.

Questions during the session can be emailed to kstrohbe@unmc.edu



Agenda

Topic	Presenter
Information Security Metrics and Projects	Sharon Welna
Microsoft Cloud Solutions	Harry Wines
Enterprise backup architecture	Harry Wines
Student Mobile App	Kim Strohbehn



Information Security Metrics/Projects

Reported to:

- Joint Privacy/Security Work Group
- UNMC Compliance Committee
- TNMC/BMC Compliance Committee
- UNMC P Compliance Committee



Nebraska Medical Center Campus Affiliated Covered Entity

	Jan-Jun 2012	Jul-Dec 2012	Jan-Jun 2013	Jul-Dec 2013	Jan-Jun 2014
High Risk	0	0	1	2	4
Recording Industry Notices	0	5	169	155	142

HIGH Risk:

Feb 2014 Cryptolocker variant

May 2014 2 occurrences Cryptolocker variant

June 2014 Cryptolocker variant

Recording Industry notices

Most notices were false positives; received 26 valid notifications

High Risk

Significant incidents which could impact the security and availability of information system resources. Significant incidents which involve law enforcement.

Recording Industry Notices:

Notification from Recording Industry of potential copyright violations.



Nebraska Medical Center Campus Affiliated Covered Entity

	Jan-Jun 2012	Jul-Dec 2012	Jan- Jun 2013	Jul-Dec 2013	Jan-Jun 2014
Incidents Investigated	46	26	41	38	60
Issues Reported	116	110	336	356	329

Security Incident

Lost/stolen devices, inappropriate use investigations, information security officer investigations in support of HR, response to subpoena, etc.

Security Issues

Devices blocked from network, resetting passwords, web filtering issues, etc.



Nebraska Medical Center Campus Affiliated Covered Entity

	Jan-Jun 2012	Jul-Dec 2012	Jan- Jun 2013	Jul-Dec 2013	Jan-Jun 2014
Virus/Malware Reported	482	388	685	171	145
Email SPAM reported	24	17	91	296	132
Total	668	598	1,153	918	666

Virus/Malware

Machine which are infected with code, scripts, active content, and other software designed to disrupt or deny operation, gather information that leads to loss of privacy or exploitation, gain unauthorized access to system resources, and other abusive behavior.

Email Spam

Unsolicited or undesired email messages .

North Carolina Healthcare Information & Communications Alliance, Inc.

NCHICA is a nonprofit consortium of over 300 organizations representing the many sectors of the healthcare industry.

2014 AMC Conference on Security and Privacy

included academic medical centers (AMCs), teaching hospitals and other large health enterprises - focused on *Managing the Integrated Information Environment*



Stepping Up Compliance in 2014

Linda Sanches

Senior Advisor, HIT and Privacy Policy

AMC Security and Privacy Conference

June 24, 2014



Continued focus on Security Rule compliance

1. Affinity Health Plan – over \$1.2 million
 - ePHI left on photocopier drives
2. Wellpoint - \$1.7 million
 - Faulty testing of programming updates left information accessible on web portal
3. Idaho State University -- \$400,000
 - Disabled firewall exposed ePHI to breach
4. Adult & Pediatric Dermatology -- \$150,000
 - Stolen unencrypted thumb drive; lacked risk analysis, and policies/procedures for breach notification



Photocopiers

1. Deloitte audited TNMC/BMC/UNMC P and found that security controls had not been implemented
2. Lisa Bazis audited UNMC copiers and found that security controls had not been implemented
 - Larry Walker leading group to implement controls



Information Security Projects

Information available via web portal

1. Phase 1--Currently UNMC implementing a data loss prevention (DLP) module evaluating data going across the Internet
2. Phase 2--UNMC is evaluating implementing a DLP module to find PII data on servers in the DMZ
3. Phase 3—Evaluate product to identify PII on workstations that are not encrypted

Firewall/DMZ Audit

1. All firewall rules are audited in July
2. Will be requesting Compliance Checklist
3. Will be validating that current contracts are in place



Unencrypted thumb drives

1. UNMC has implemented Microsoft One Drive for faculty, staff, and students to reduce the need to use thumb drives



Risk Analysis

1. Information Security Office performs the risk analysis
2. Document reviewed by Deloitte, Fishnet, OCR and has been accepted
3. Developing plan to rebaseline in 2015



Credit Card Compliance

1. New guidelines issued Oct 2013
 - Effective Jan 1 2015
2. However, new guidelines issued additional details on how to comply with PCI 2.0 (currently in effect)
3. Statement indicating compliance status completed July 1, 2014



New Resident Orientation

- One Drive
- Lync



UNIVERSITY OF NEBRASKA MEDICAL CENTER unmc.edu

Information Technology Services

Call 9-7700 for assistance with computers and phones

<http://www.unmc.edu/its>

Quick How To's

Reset NetID and Password

http://www.unmc.edu/its/its_passwords.htm

Setup Mobile Email

http://www.unmc.edu/its/mobile_devices.htm

Request Secured Remote Access

http://www.unmc.edu/its/remote_access.htm

Know about Information Security

http://www.unmc.edu/its/information_security.htm

How to Encrypt a Flash Drive

<http://www.unmc.edu/its/flashdrives.htm>

Setup Instant Messaging

http://www.unmc.edu/its/instant_messaging.htm

Use One Drive for Business

<http://www.unmc.edu/its/OneDriveforBusiness.htm>

Use Software at Work & Home

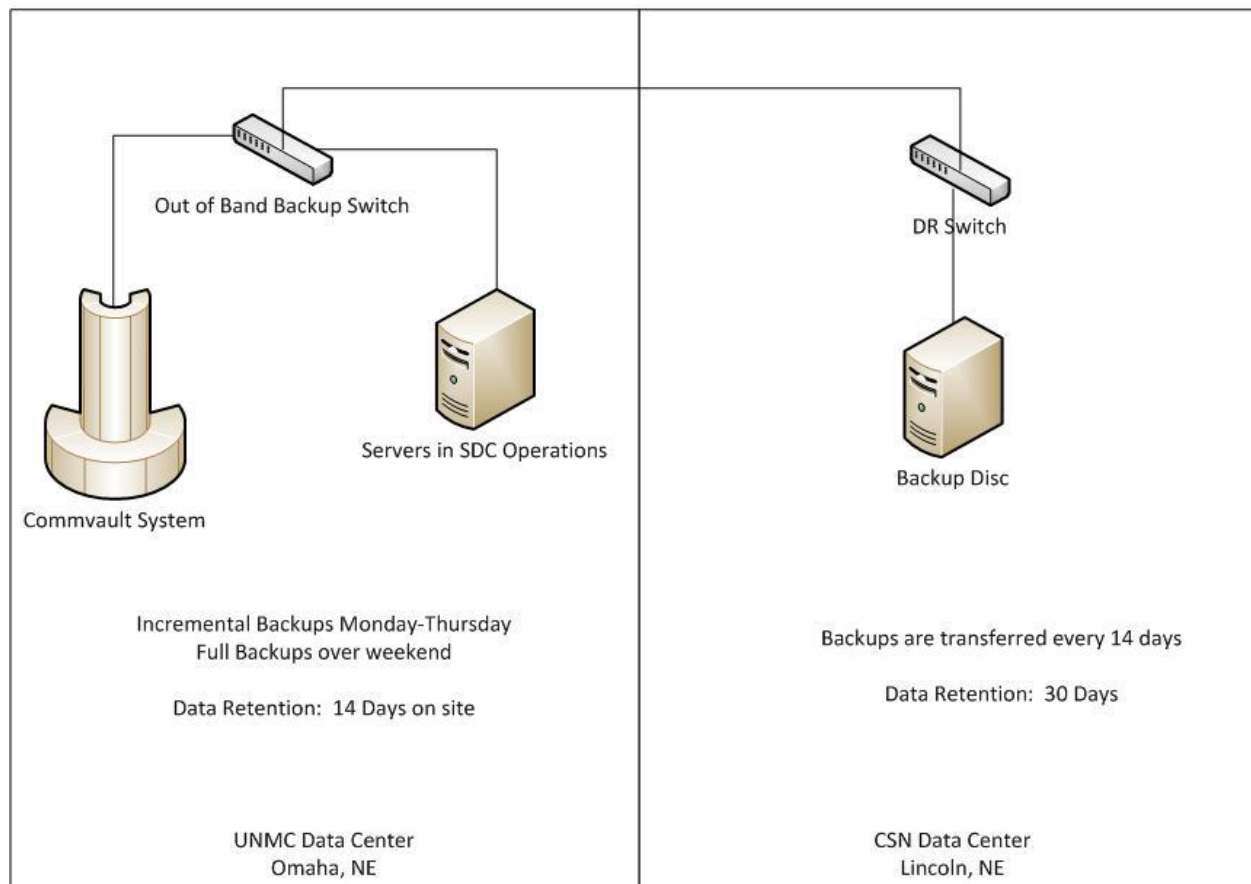
http://www.unmc.edu/its/software_downloads.htm

1. **NetID and Password.** Your UNMC NetID and password provides access to many campus systems such as email, eServ (Employee Self Service), the campus network and Blackboard for online compliance courses. **Do not share your IDs and passwords with anyone.**
2. **Email at Work and On the Go.** Email is available from your desktop, via the internet and on your mobile device. Up to two mobile devices may be connected.
3. **Off-Campus Access (Secured Remote Access)** Off-campus access to sensitive information such as patient data and the campus network requires an extra level of security. This requires you to enter your NetID and password; AND use what is called a grid card. Email access only does not require a grid card.
4. **Information Security.** Information security is everyone's responsibility.
 - Always demonstrate professional conduct.
 - Only access information required to do your job... "legitimate business need"
 - Password protect and encrypt mobile devices.
 - Report information security incidents to the ITS Helpdesk at 9-7700 (402-559-7700 from off-campus).
5. **Instant Messaging.** UNMC uses Microsoft Lync for instant messaging. Everyone has access, but one-time setup is required.
6. **One Drive for Business.** Everyone has access to UNMC's One Drive for Business. This is a secured, HIPAA compliant cloud storage solution for your UNMC documents.
7. **Software for Work and Home.** UNMC uses the Microsoft Office suite at work and discounted pricing is available for home use.



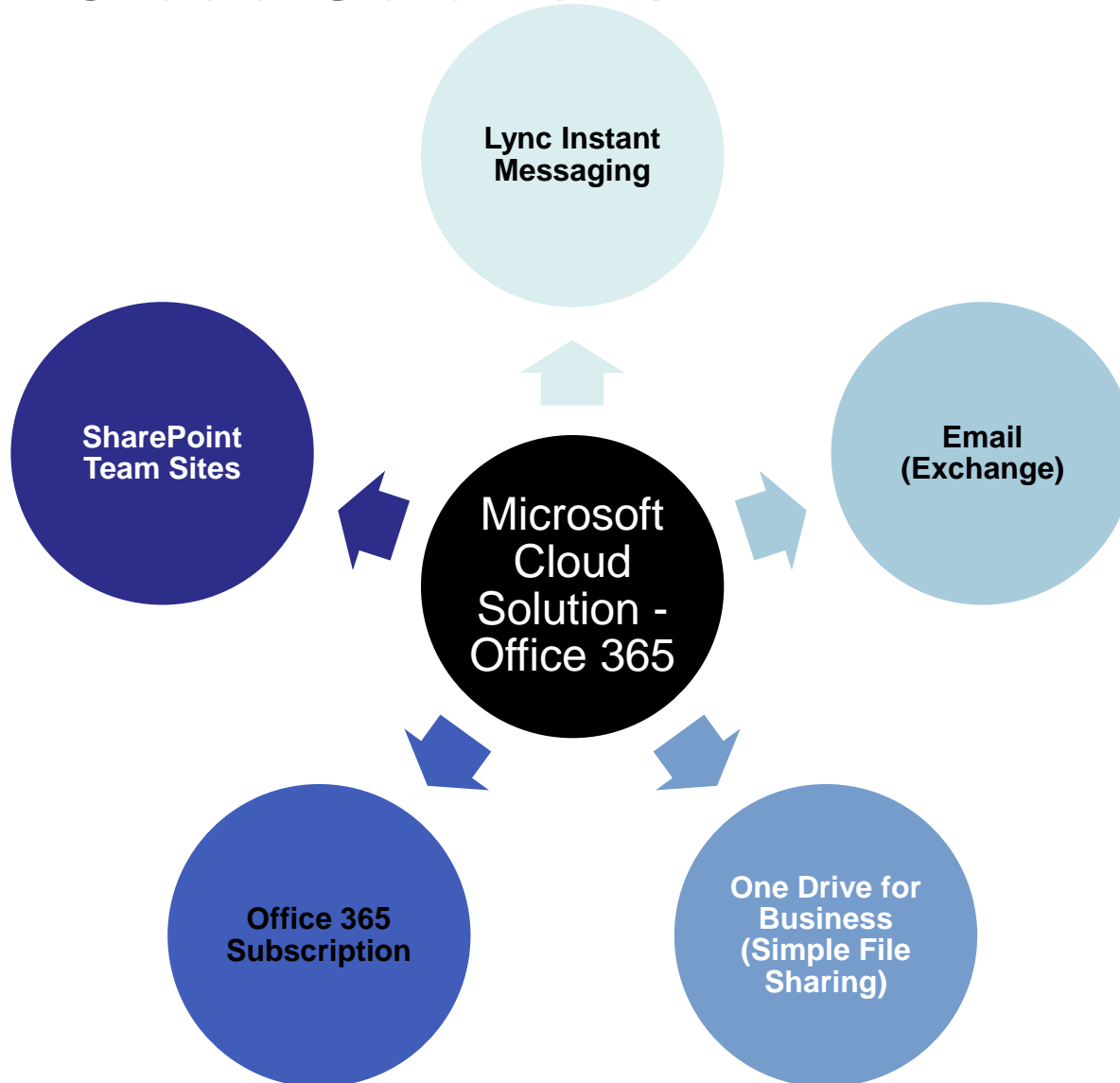
Enterprise Backup

UNMC Enterprise Backup





Microsoft Cloud Solutions





Cloud Deployment Status

Lync Instant Messaging

- Deployed
- Everyone has access; no request process
- One time setup
- App available for mobile devices
- Lync now working with TNMC

SharePoint

- 4 Pilots (Facilities; Library; CON; Public Relations)
- Complex product; many options
- Difficult to incorporate SharePoint administration into already busy workloads



Cloud Deployment Status

Azure

Yammer/365

Email

- ITS Testing
- Calendaring issues
 - UNMC premise and UNMC cloud
 - Hospital and UNMC
- Access to Shared / Generic Account



One Drive for Business / Office 365

One Drive for Business – Currently Available

- Available for faculty, staff, students
- Your h: drive in the cloud
- Simple file sharing
- Internet connection & web browser
- Eliminate need for thumb drives

Office 365 (subscription service)

- UNMC's is not currently licensed for Office 365
- Purchasing a few licenses for testing
- Billing/tracking/renewal processes need to be worked out
- **BUT can use One Drive for Business via web browser**



Student Mobile App



Campus

Communication –
Week of July 21

