

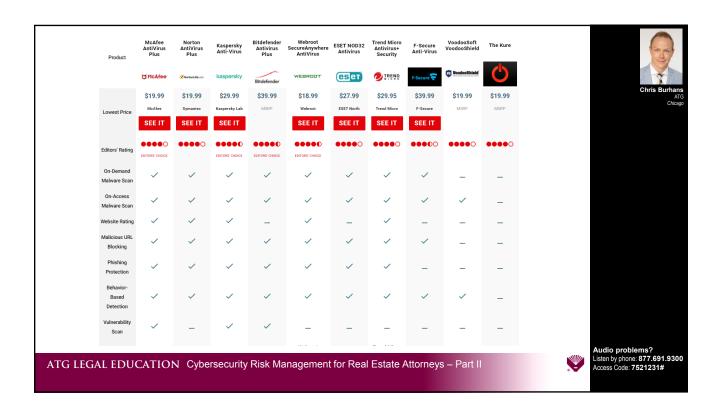


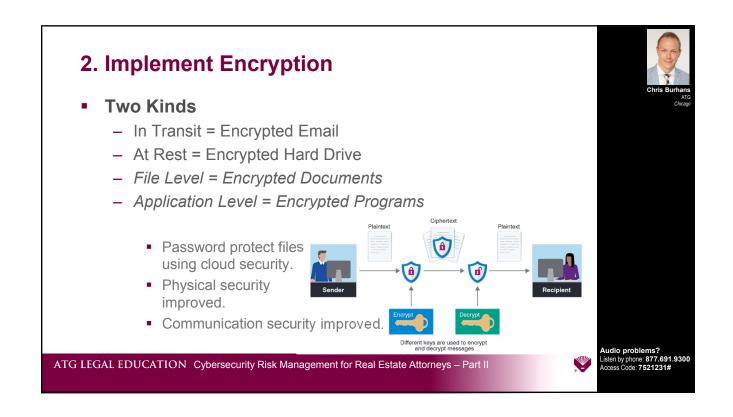


### 1. Install Anti-Virus/Ransomware Protection

- Things to Consider
  - Who else uses it? Does it work?
  - System Load/Requirements
  - Ease of Use
  - Price
    - Make sure it updates regularly.
    - Check bells and whistles.







## 3. Pay Attention to Physical Security

- Tips
  - Clean Desk Policy
  - Server Rooms Under Lock/Key
  - Shredding Service
  - Remote Tracking
  - Lock Screens
    - Mitigates risk against theft.
    - Prevents data leakage.
    - Adheres to standards.



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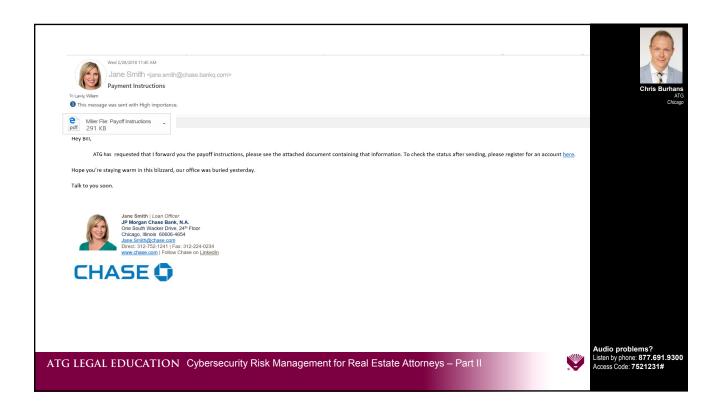
# 4. Secure Email with Multiple Layers

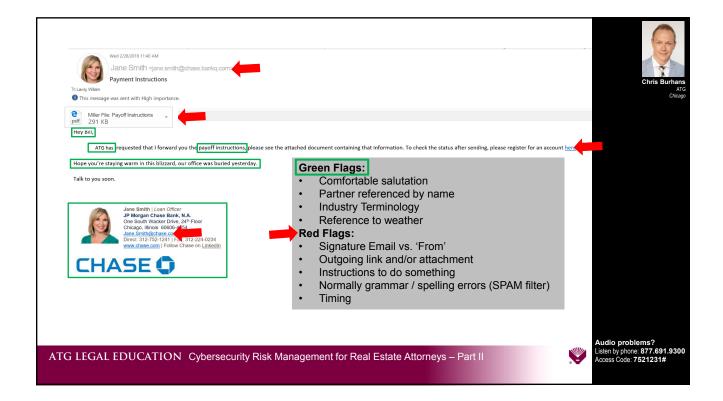
- Recommended Layers
  - Spam Filters
  - MFA Logins
  - Attachment Scanning
  - Link Scanning
  - Simulated Attacks
    - Email is one of the biggest risks.
    - Real estate industry targeted.
    - Layered defense strategies.



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## 5. Overprotect Wireless Networks

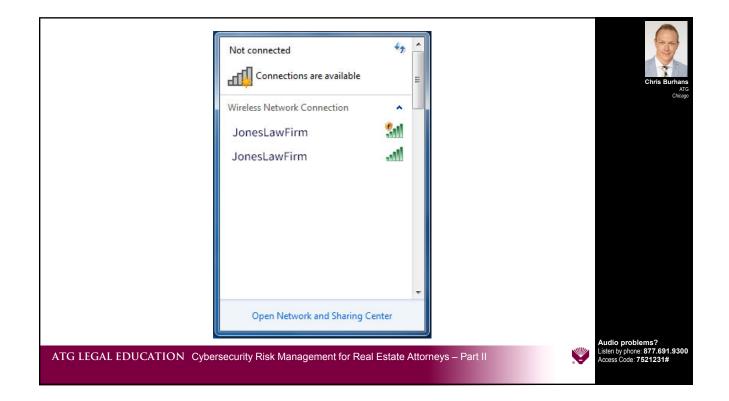
### **Action Steps**

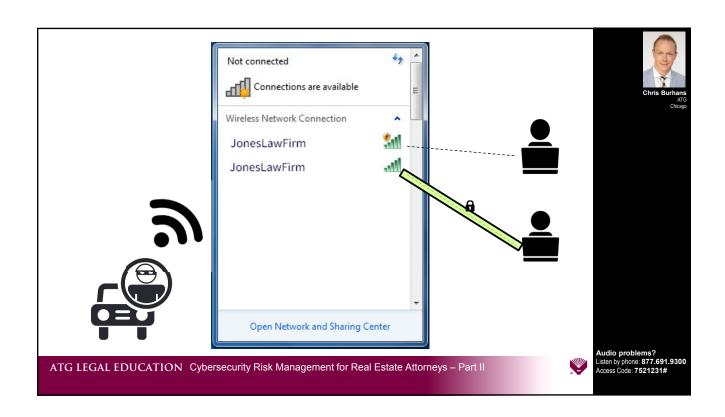
- Enforce WPA2 or higher.
- Do not make SSID recognizable.
- Change default router passwords.
- Be mindful of rogue AP attacks.
- Implement URL filtering.

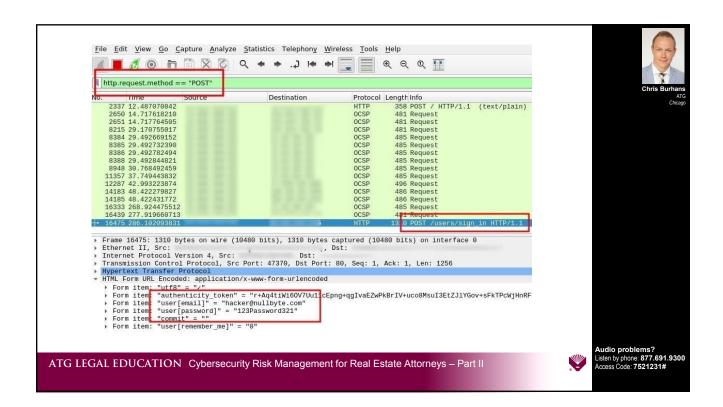


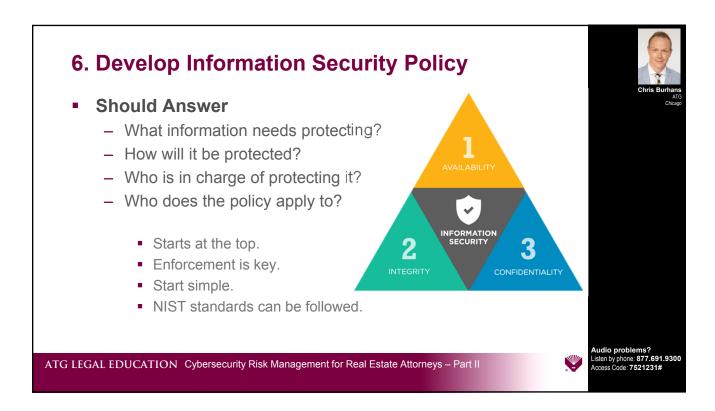
- Make public vs. private Wi-Fi separate networks.
- Do not hang passwords on the wall.
- Computers vs. phones.

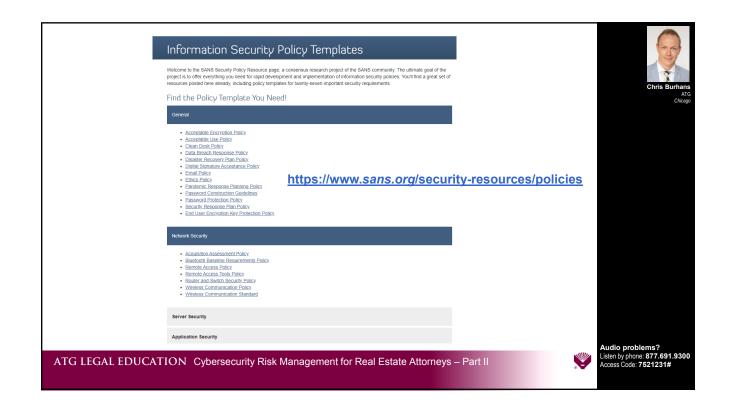












### 7. Create Incident Response Plan

### Three Primary Roles

- Threat Researcher
- Triage/System Analysis
- Crisis Management
  - How much would it cost?
  - Never pay the hackers.
  - Step-by-step process.
  - Communication is key.





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Find Training Live Training

https://www.sans.org/score/incident-forms

## Sample Incident Handling Forms

- Security Incident Forms
  - Incident Contact List
  - 2. Incident Identification
  - 3. Incident Survey
  - 4. Incident Containment
  - Incident Eradication
    Incident Communication Log
- Intellectual Property Incident Handling Forms
  - Incident Form Checklist
    Incident Contacts
  - 3. Incident Identification
  - 4. Incident Containment
  - 5. Incident Eradication
- 6. Incident Communication Log
- · Chain of Custody Form

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### 8. Understand Why Business Domains Are Vital

- **Business Domains Advantages** 
  - Create trust.
  - Harder to impersonate.
  - Very cheap.





- Tip: Read email addresses backwards.
- Helps promote awareness.
- Expect to be impersonated.

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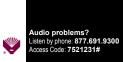
### 9. Use the Cloud

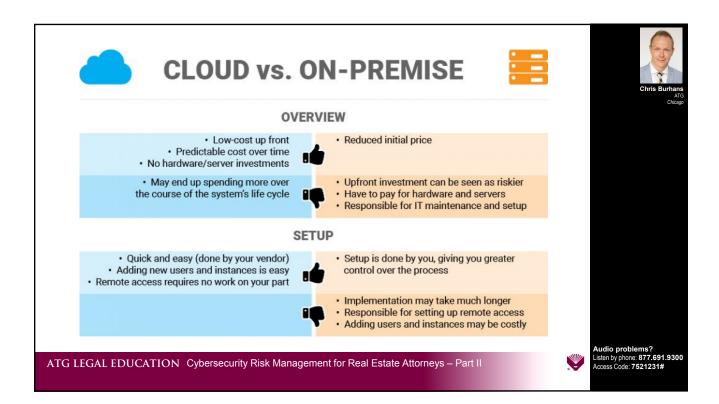
- Cloud Advantages
  - Inherent Security
  - Integrated Disaster Recovery
  - Integrated Encryption
  - Low Storage Price
  - Share Links, Not Attachments

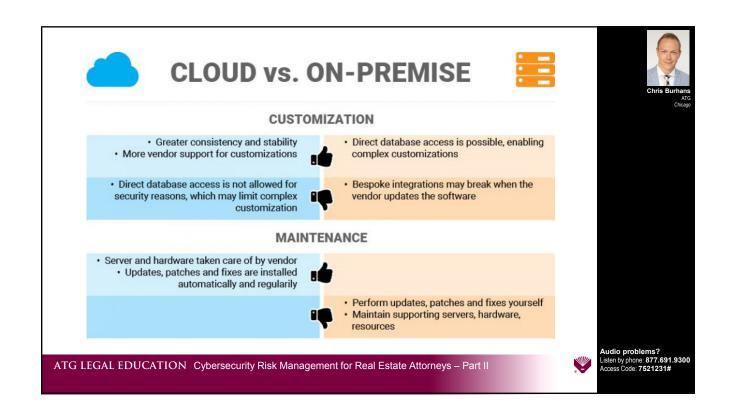


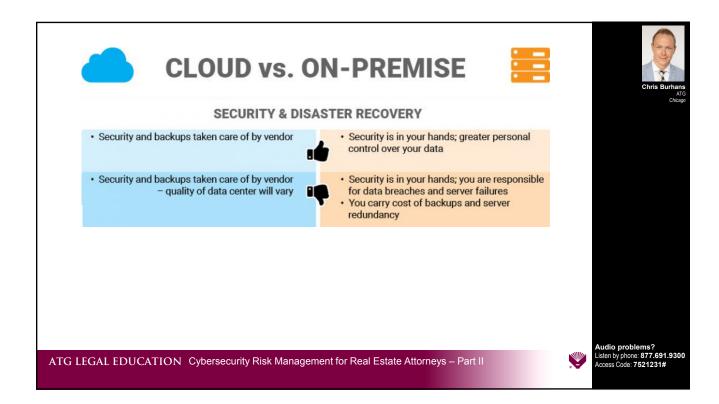
- Use MFA for access.
- Directory-level security recommended.
- Audit logs make triage easier.
- Encrypt at rest and in transit.
- Off-site backup built in.





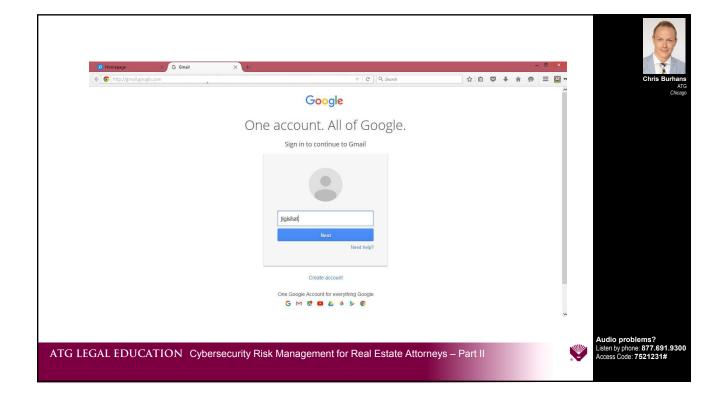


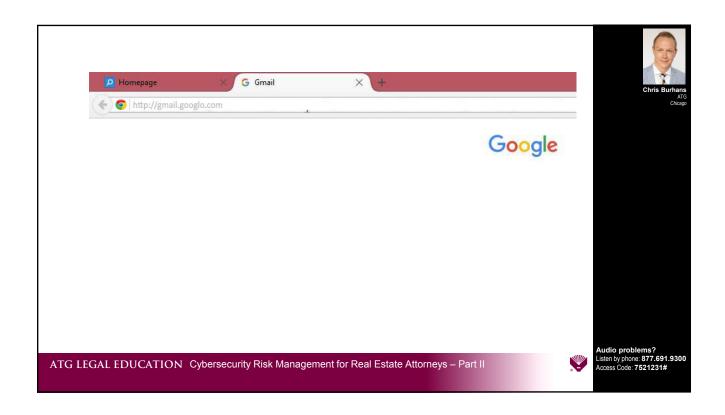


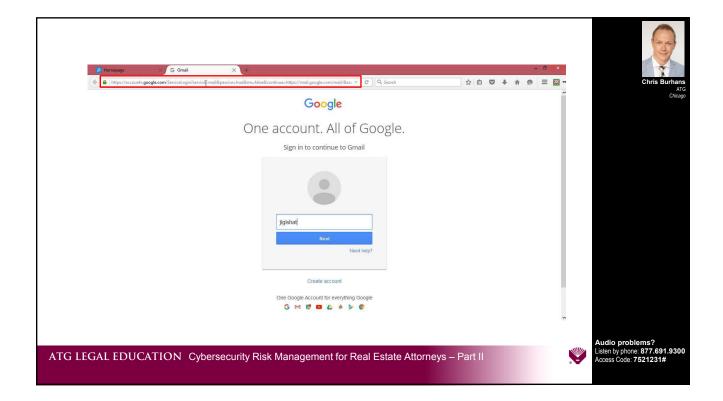


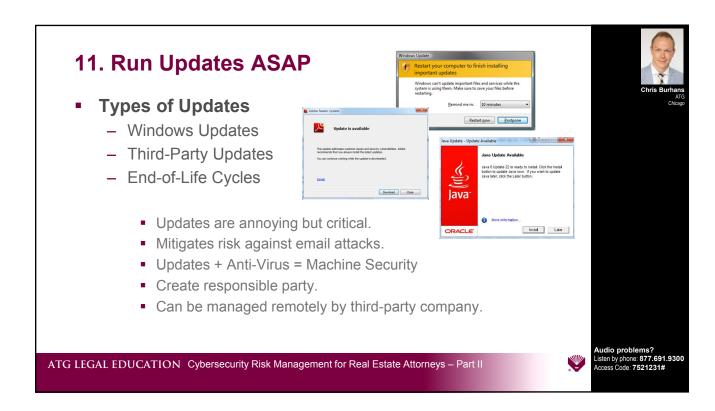


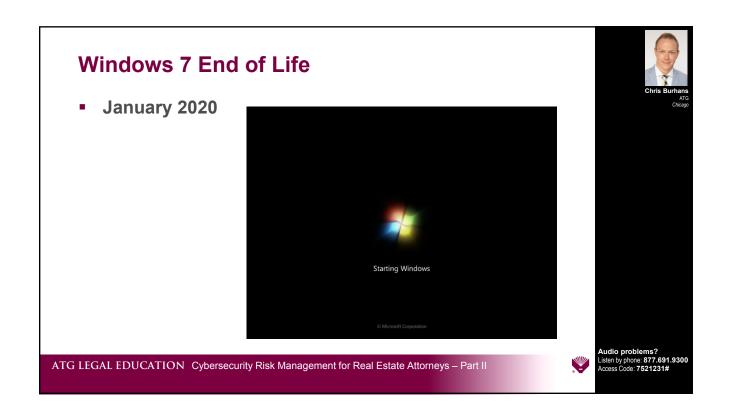












### 12. Consider Cybersecurity Insurance

#### **Questions to Ask**

- What types of incidents are covered?
- What types of incidents are NOT covered?
- How long do I have to report it?
- What happens after I report a claim?



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### 12. Consider Cybersecurity Insurance

#### **Questions to Ask**

- What is the cost; how is coverage priced?
- If a breach occurs, does my premium go up?
- Are there any audit or operational obligations?
- Is there anything I can do to minimize cost?
- Have any recent claims been denied coverage? If so, why?







### **Common Reasons Why Cybersecurity Claims Are Denied**

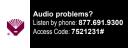
- **Failure to Maintain (Negligence)** 
  - You did not protect yourself.
- **Industry-Specific Fine** 
  - Your business, your responsibility.
- Ransomware/Extortion
  - Lost income covered, extortion bill is not.
- **Social Engineering (Negligence)** 
  - Did you open the door?

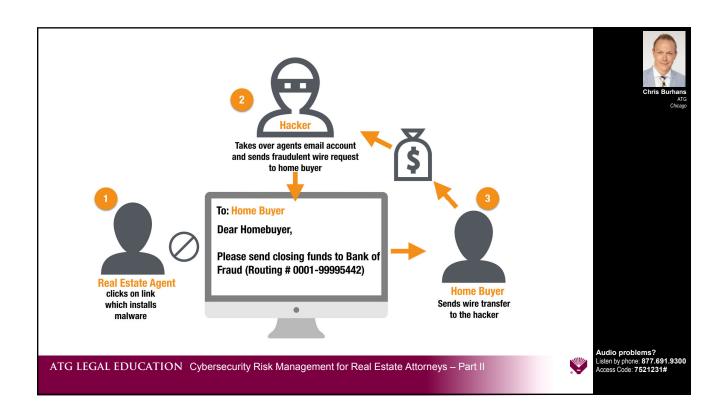


### 13. Go Above and Beyond for Wire Fraud

#### Wire Fraud Prevention

- Create educational welcome packet.
- Consider further protection with paid services.
- Develop specific guidelines.
- Create separate wire fraud response process.
  - Can't stop impersonation; need to educate.
  - You are on the hook.
  - Wires are foreign; further need to educate.
  - You cannot secure buyer, seller, or agent.
  - Know what to look for.





# Real estate wire fraud complaints

Year	Victims	Dollars lost
2014	9,955	\$19.8M
2015	11,562	\$41.4M
2016	12,574	\$47.9M
2017	9,645	\$56.2M
2018	11,300	\$149.5M

Source: FBI

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## 14. Treat Sensitive Data Like Money

- Noteworthy Compliance
  - GDPR
  - California Consumer Privacy Act
    - Facebook set the stage.
    - Fines are meant to be severe.
    - New York is coming.



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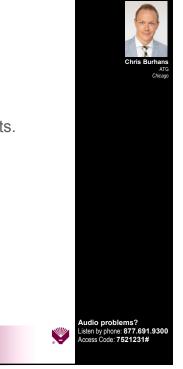


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- Email
  - Use private business domain.
  - Add multi-factor authentication to all company accounts.
  - Implement a SPAM filter.
  - Encrypt sensitive messages.



- Wi-Fi
  - Change default passwords on router.
  - Disguise network name.
  - Ensure use of latest security protocol for encryption.
    - WPA2 now; WPA3 coming.

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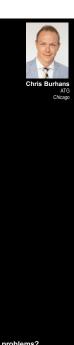


### **Easy Tips to Secure Your Business**

- **Computers** 
  - Update anti-virus software daily.
  - Encrypt sensitive documents.
  - Ensure you have effective patch management.

#### Restoration

- Back up to the cloud or a server.



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## **Easy Tips to Secure Your Business**

#### Awareness

- Create process to regularly train staff on cybersecurity threats.
- Create cybersecurity information packets for clients.



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#### Documentation

- Create an information security policy and enforce it.



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## **Easy Tips to Secure Your Business**

### Mitigate Risk

 Get annual cybersecurity assessments done to measure your level of exposure.



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