D'ENLIGHTENMENT

Day to Day Security for Business Managers, Users and SMEs

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"Information Security is about technology, policy, people and common sense"

"Security is a multifaceted word with many different connotations; it involves *protecting* an organization's critical information *from threats*"





"Securing your information is a big issue that is *getting more* complex every day"

Information Security and the CSO

- Most organizations in the Asia Pacific region beginning to realize that security and continuity are important issues.
 - 40% IT Managers rated security as their highest priority.
- Security challenges are getting more complex.
 - Future trends include policy-enforced client security, identity management and the convergence of physical and virtual security.
- Delivering business resilience in an "always connected" global economy.

Information Security and the Organization

- Protection of an organization's critical information.
 - Minimizing the risk posed by internal and external threats.
- Ultimately driven by business needs.
 - A balance between CONFIDENTIALITY, INTEGRITY and AVAILABILITY.
- Internet has brought significant hazards.

"Even the best technology can fail"

Did Technology Fail?

YES!

- In spite of the best technology in place, security had been compromised.

• NO!

- The technology did not fail to deliver, the breach was a human failure.



The Weakest Link

- The weakest link in security is *the human element*.
 - "We have met the enemy; and he is us".
- A security program is effective only if:
 - Every individual in his/her respective capacity is security conscious.
 - Implements the information security policies of the organizations.

Seven Best Practices in Information Security

- 1. Have a defined information security policy.
- 2. Deny all, unless explicitly authorized and allowed.
- 3. Encrypt all data communicated over public connections.
- 4. Classify the information.
- 5. Use information-handling procedures based on the classifications.
- 6. Enforce access control.
- 7. Minimize, or eliminate exceptions to the rule.

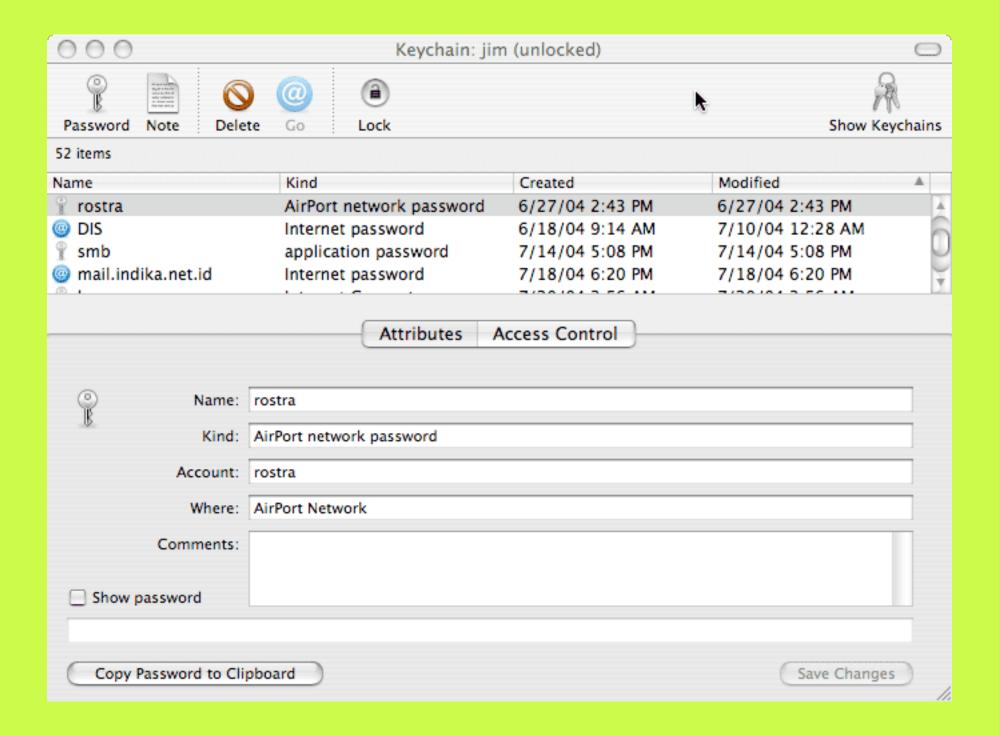
Today issues

Put your stuff online.



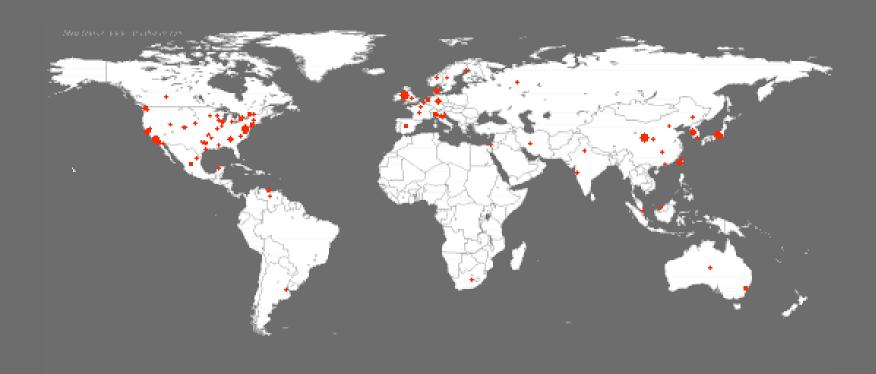
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0280673 justenter username username123 dellon



Zombies, Trojans, Bots, Worms What have we wrought?

"Over 30,000 computers are *recruited* into **botnets** every day"



"Malware is increasingly being designed to steal personal data, particularly financial information and passwords"

"Two of the most troublesome are flash threats and self-mutating worms"

Encryption

SSL/TLS

- Cryptographic security
- Interoperability
- Extensibility
- Relative efficiency

Practical use of SSL / TLS

- Web Mail
- Mail transport
- Secure login / ftp

PGP / GPG

- http://www.pgp.com/
- http://web.mit.edu/network/pgp.html
- http://www.gnupg.org/

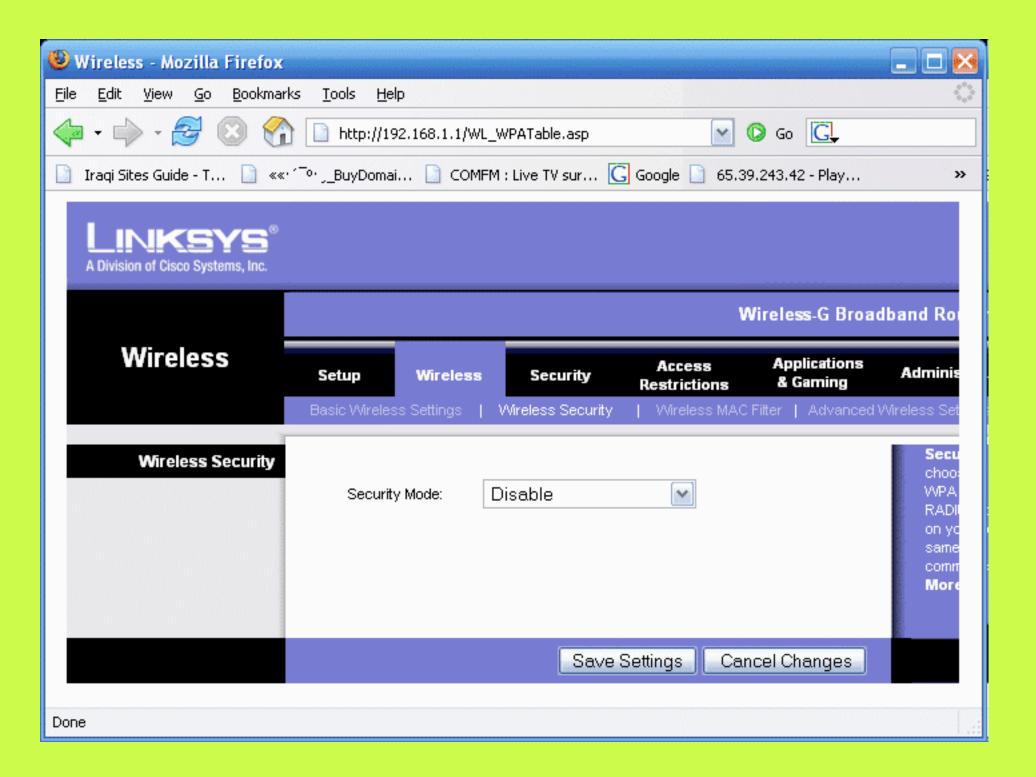
Disk Encryption Tool

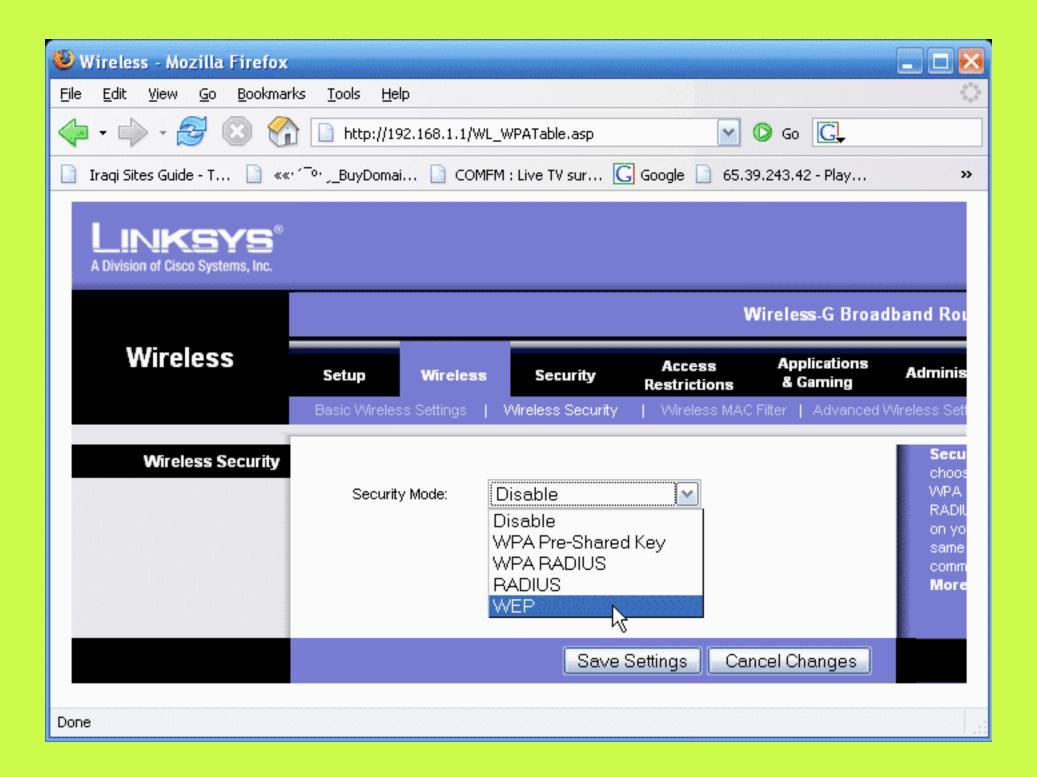
Hard Disk Encryption

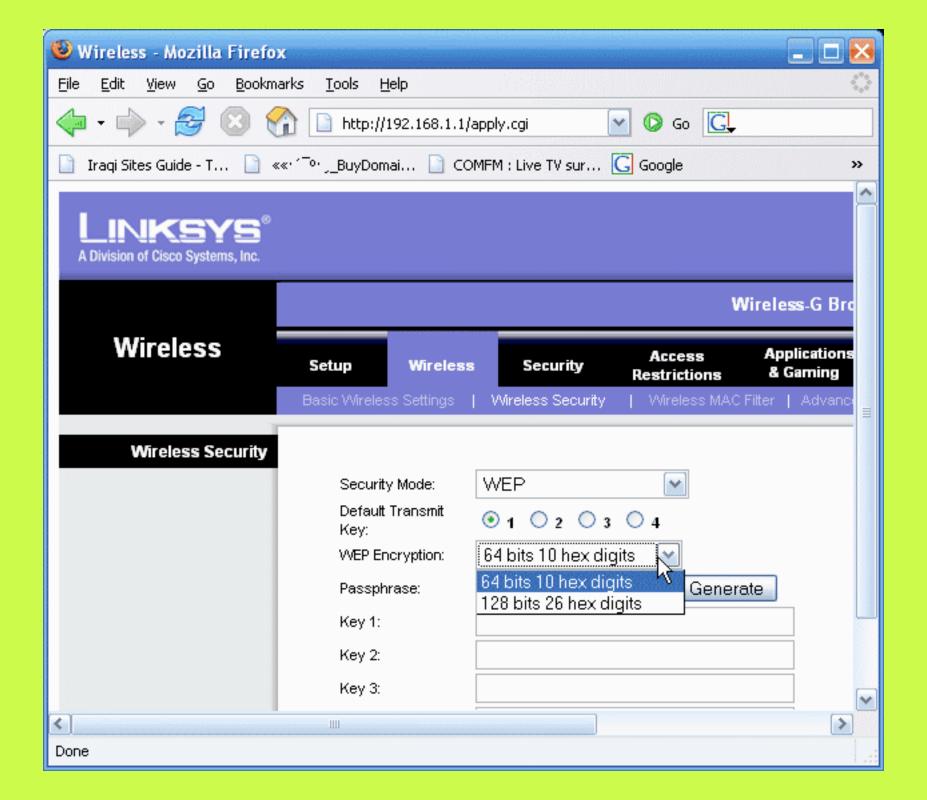
- http://directory.google.com/Top/ Computers/Security/Products_and_Tools/ Cryptography/Hard_Disk_Encryption/
- http://www.infoanarchy.org/wiki/ index.php/Hard_Disk_Encryption

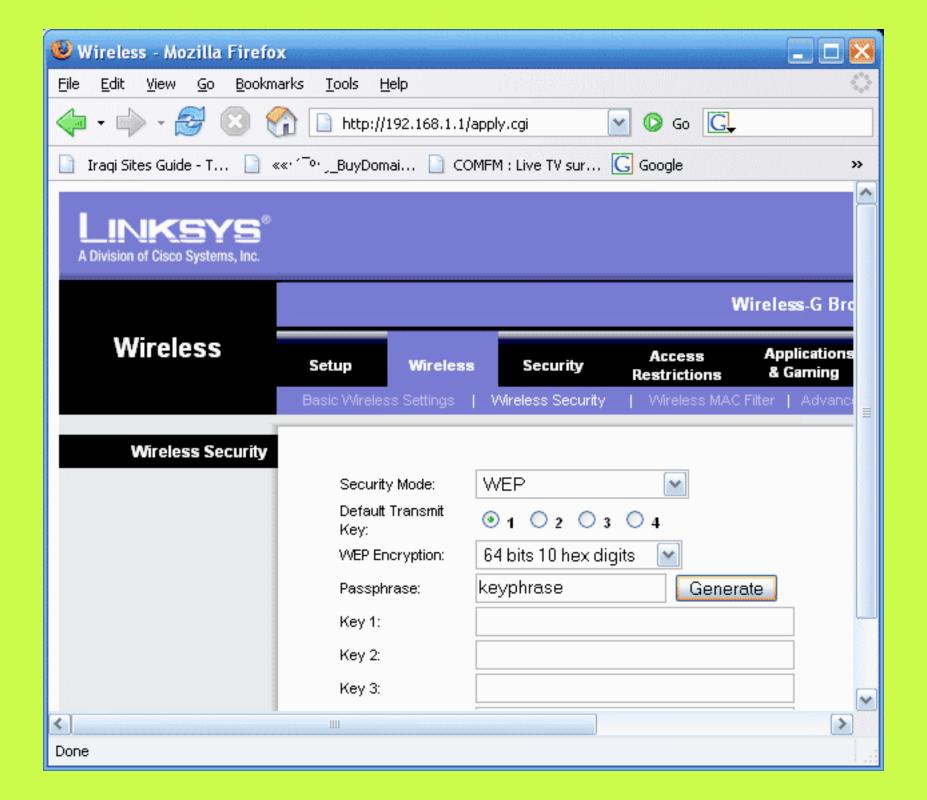
Wireless Encryption

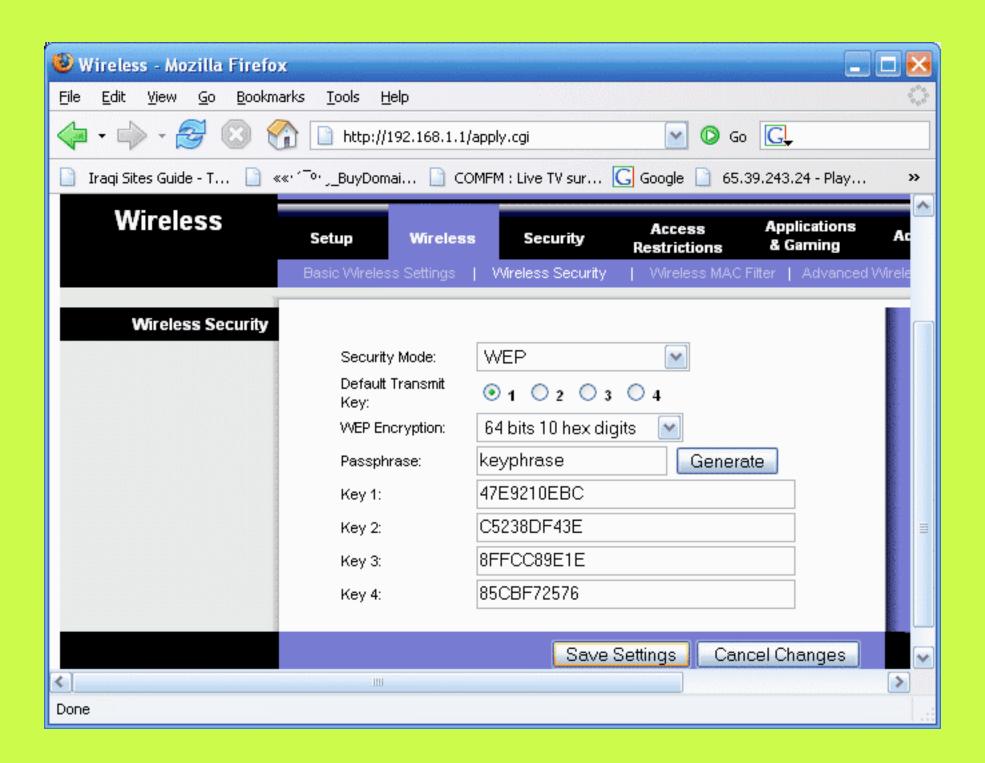












Backup Strategy

Backup Consideration

- Document
- Label
- Verify
- Test
- Test again
- Be pessimistic

The Responsibility

- Security is **NOT** just a job function of the technical IT team; it is everybody's responsibility.
 - Each individual is responsible.
 - Security awareness program.

The Truth

- Having the latest gizmo in place will NOT guarantee complete security.
- Technology and human factors have to go hand-in-hand while implementing a complete security solution.
- A security conscious and alert employee may often be able to identify, avoid or contain an incident to ensure minimal damage.

"Information security is a concern for everyone"