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Cyber Risks- The new normal



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Cyber Risks, dominating for the past three years



Source- Global Risk Landscape, 2016

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Some major cyber attacks - 2017

	 Database of 1.4 Billion Records leaked from World's Biggest Spam Networks A database of 1.4 billion email addresses combined with real names, IP addresses, and often physical address has been exposed in what appears to be one the largest data breach of this year The database contains sensitive information about the company's operations, including nearly 1.4 Billion user records, which was left completely exposed to anyone – even without any username or password.
YAHOO!	 Yahoo Hacked Once Again! Quietly Warns Affected Users About New Attack Yahoo sent out another round of notifications to its users on Wednesday, warning that their accounts may have been compromised as recently as last year after an ongoing investigation turned up evidence that hackers used forged cookies to log accounts without passwords
KEOX CBOX CAMING FORUMS HACKED 25 MILLION Users Data Leaked	 Popular PlayStation and Xbox Gaming Forums Hacked; 2.5 Million Users' Data Leaked Mostly gamers who look for free versions of popular games are members of these two gaming forums, which provide download links for gaming ISO files – digital copies of online video games lifted from physical game disks – to the owners of Microsoft's Xbox 360 and Sony's Playstation Portable.
	 Breach Database Site 'LeakedSource' Goes Offline After Alleged Police Raid The biggest mistake companies make with data security is leaving all their secrets unprotected at one place, which if attacked, they are all gone in one shot. An unnamed law enforcement agency has reportedly accessed billions of compromised usernames, email IDs, and their passwords, collected by LeakedSource, a popular breach notification service.



Some major cyber attacks contd..

1-Billion Yahoo Users' Data On Sale

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1-Billion Yahoo Users' Database Reportedly Sold For \$300,000 On Dark Web

• The new development in Yahoo!'s 2013 data breach is that the hacker sold its over Billion-user database on the Dark Web last August for \$300,000, according to Andrew Komarov, Chief Intelligence Officer (CIO) at security firm InfoArmor.

Hackers shut down Ukraine power grid

- The same group of hackers that caused the power outage across several regions in Ukraine last Christmas holidays might have once again shut down power supply in northern Ukraine during the weekend.
- United States Cyber firm iSight Partners identified the perpetrator as a Russian group of hackers known as "Sandworm"





Shamoon Malware : Permanently wiping data from Energy Industry Computers (2nd Drill)

- A new disk wiping malware has been uncovered targeting a petroleum company in Europe, which is quite similar to the mysterious disk wiper malware Shamoon that wiped data from 35,000 computers at Saudi Arabia's national oil company in 2012.
- Shamoon 2.0 is the more advanced version of Shamoon malware that reportedly hit 15 government agencies and organizations across the world, wipes data and takes control of the computer's boot record, preventing the computers from being turned back on.

Massive ATM Hack Hits 3.2 Million Indian Debit Cards — Change Your PIN Now!

 Hackers allegedly used malware to compromise the Hitachi Payment Services platform — which is used to power country's ATM, point-of-sale (PoS) machines and other financial transactions — and stole details of 3.2 Million debit cards, reports The Economic Times.

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Motivation's for Cyber Attacks Statistics- 2017





Why cyber risk prevails??



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Why do Breaches Happen?



Cyber Risk Mitigation

Enable business performance

- Make security everyone's responsibility
- Don't restrict newer technologies; use the forces of change to enable them.
- Broaden the program to adopt enterprise-wide information risk management concepts
- Set security program goals and metrics that influence business performance

Sustain an enterprise program

- Get governance right make security a board-level priority
- Allow good security to drive compliance, not vice versa
- Measure leading indicators to catch problems while they are still small
- Accept manageable risks that improve performance.

Protect what matters most

- Develop a security strategy focused on business drivers and protecting high-value data
- Assume breaches will occur improve processes that plan, protect, detect and respond
- Balance fundamentals with emerging threat management
- Establish and rationalize access control models for applications and information

Identify the real risk

- Define the organization's overall risk appetite and how information risk fits
- Identify the most important information and applications, where they reside and who has or needs access
- Assess the threat landscape and develop predictive models highlighting your real exposures.

Optimize for business performance

- Align all aspects of security (information, privacy, physical and business continuity) with the business.
- Spend wisely in controls and technology - invest more in people and processes.
- Consider selectively outsourcing operational security program areas

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Key Mitigation steps

Perform Current State Assessment across defense, detection and response domains

> Identify what are the crown jewels

Baseline whether you have been compromised or not

Review security spend and align with current state assessment results Develop/Refresh Cyber strategy

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Thanks for Your Attention