

Author, Speaker and TV Guru Raj Goel, CISSP Presents:

How To Increase Revenues By Delivering Effective Security

Raj Goel, CISSP

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Raj Goel, CISSP, is an Oracle and Solaris expert and he has over 25 years of experience in software development, systems, networks, communications and security for the financial, banking, insurance, health care and pharmaceutical industries.

Raj is a regular speaker on HIPAA/HITECH, PCI-DSS Credit Card Security, Disaster Recovery, Information Security and other technology and business issues, addressing diverse audiences including technologists, policymakers, front-line workers and corporate executives.

A internationally known expert, Raj has appeared in over 30 magazine and newspaper articles worldwide, including <u>Information Security Magazine</u>, <u>PenTest</u>, <u>CSOOnline</u>, <u>Entrepreneur Magazine</u>, <u>Business2.0</u> and <u>InformationWeek</u>, and on television including <u>CNNfn</u>, <u>Geraldo At Large</u>, <u>PBS</u> and WPIX11.

Raj has presented at:

- ISC² conferences
- ASIS International conferences
- BrightTalk conferences
- Medical Conferences
- Legal Conferences
- GBATA 2012 & 2013 (keynote speaker)
- The Hague, Netherlands NCSC.NL 2013 (plenary)

speaker)

- GBATA 2013 Helsinki Keynote Speaker
- ICT Curacao Keynote Speaker



Media Appearances





Global Business and Technology Association™



Entrepreneur



The New York Times

(ISC)2°

SECURITY TRANSCENDS TECHNOLOGY™

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Disclaimer

- This is not legal advice.
- This is not compliance advice.
- This is not an endorsement (or lack there of) of any vendor, product or service
- No product, Service or Vendor can make you compliant. Only you, your people and how you implement can do that.

How much is 3.6% of your revenue?

Companies experience an average of 501 hours of network downtime every year, and the overall downtime costs an average of 3.6% of annual revenue.

(Source: The Costs of Enterprise Downtime, Infonetics Research)



Are You Part Of The 93%? Or 7%?

93% of companies that lost their data center for 10 days or more due to a disaster filed for bankruptcy within one year of the disaster, and 50% filed for bankruptcy immediately.

(Source: National Archives & Records Administration in Washington)

1 in 5. Care to place a bet?

20% of small to medium businesses will suffer a major disaster causing loss of critical data every 5 years.

(Source: Richmond House Group)



Target. Neiman Marcus. You?

This year, 40% of businesses that manage their own network and use the Internet for more than e-mail will have their network accessed by a hacker, and more than 50% won't even know they were attacked.

(Source: Gartner Group)

What's Your Value Per Hour?

Of those companies participating in the Contingency Planning & Management Cost of Downtime Survey:

- 46% said each hour of downtime would cost their companies up to \$50,000,
- 28%: between \$51,000 and \$250,000,
- 18%: between \$251,000 and \$1 million
- 8%: more than \$1 million per hour.

(Source: Cost of Downtime Survey Results)

Got A Plan?

- 56% of enterprises in North America don't have a formal and comprehensive disaster recovery policy.
- 87% of businesses indicated that failure to recover data would be damaging to the business
- 23% said it would be "disastrous."

(Source: Cost of Downtime Survey Results, 2011)



Your Biggest Asset and your Biggest Liability





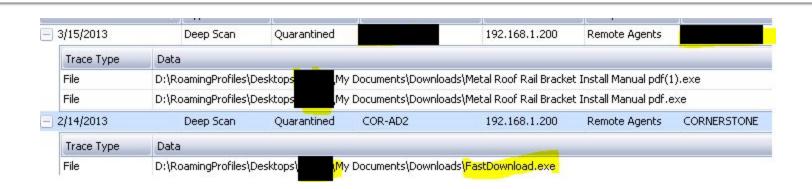
Employees cause 87% of breaches

Trace Type	Data	
File	D:\RoamingProfiles\Desktops	My Documents\REVIT2 <mark>012\Crack\xf-a</mark> desk2012x64.exe
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\Crack\xf-a2012-64bits.rar xf-adesk2012x64.exe
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\Crack\xf-a2012-32bits.rar xf-adesk2012x32.exe
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\AUTODESK.REVIT.ARCHITECTURE.V2012-ISO\rac2012\rac2012
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\AUTODESK.REVIT.ARCHITECTURE.V2012-ISO\rac2012\rac2012

- Young employee downloaded pirated software.
- Banking trojans come along for the ride



Watering hole attacks



- Criminals infected a major supplier site
- PDFs were infected
- Nasty rootkit hidden in the files



Playoffs or Projects?

Top Web Users				
User		Hits	Bytes	
N/A		39669	771.16 MB	
		22513	6.04 GB	
	media.r	dia.newyork.cbslocal.com		3.71 GB
	cbsnew	cbsnewvork.files.wordpress.com		8.68 MB

- During playoffs, a single employee consumed as much internet as everyone else <u>combined</u>.
- He spent the whole day watching baseball at work
- Next day, this report was in front of his manager.



Increasing Productivity

- Productivity is
 - 20% Technology
 - 30% Procedures & Processes
 - 50% People.

We promise 30% increase in productivity ...or your money back!

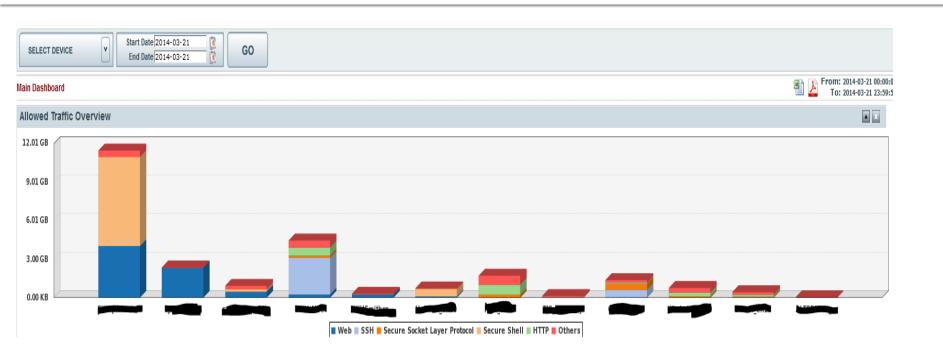
Ticket ALL Infections

Trace Type	Data	
File	D:\RoamingProfiles\Desktops	My Documents\REVIT2 <mark>012\Crack\xf-a</mark> desk2012x64.exe
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\Crack\xf-a2012-64bits.rar xf-adesk2012x64.exe
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\Crack\xf-a2012-32bits.rar xf-adesk2012x32.exe
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\AUTODESK.REVIT.ARCHITECTURE.V2012-ISO\rac2012\rac2012
Archive	D:\RoamingProfiles\Desktops	My Documents\REVIT2012\AUTODESK.REVIT.ARCHITECTURE.V2012-ISO\rac2012\rac2012

- Have your AV create tickets automatically
 - Review all infections with client-manager and/or end-user
 - Use this to curtail unwanted behaviours or justify increased resource



Setup A Central SIEM

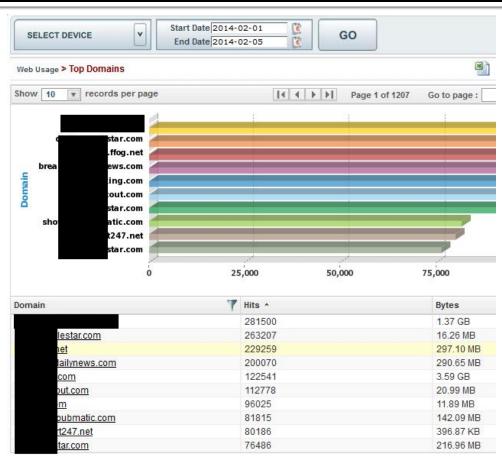


 Daily Traffic Analysis is CRITICAL For Encouraging Proper Behaviour



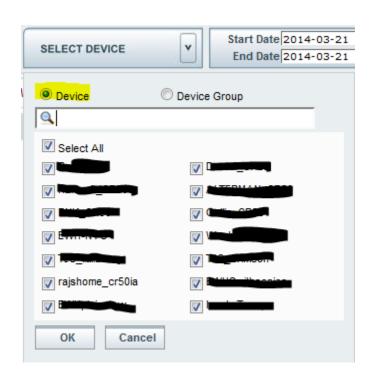
Cyberoam iView works!

- Daily Reporting Is CRITICAL For Encouraging Proper Behavior
 - Blocks viruses, driveby downloads, tracks web surfing





Cyberoam iView



Analyze each firewall Individually



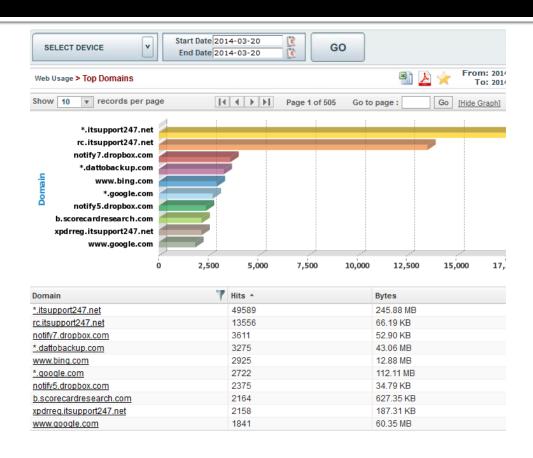
Cyberoam iView



Or organized into Groups



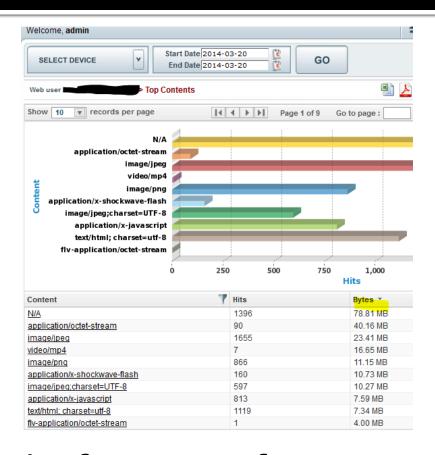
Indepth Analysis



Top Domains Across ALL Sites



Indepth Analysis



Top Media for a specific user



Demonstrate Policy Violations

Web Surfing Reports > Web Search Result

Show 10 v records per page			[{ { }
Time ^	User Name	User Group	Domain
2013-12-27 16:10:26		NYC Office	static2.playboy.com
2013-12-27 16:10:25		NYC Office	www.playboy.com
2013-12-27 16:10:25		x88x31-a	ads.playboy.com
2013-12-27 16:09:38		NYC Office	static2.playboy.com
2013-12-27 16:09:38		NYC Office	static2.playboy.com
2013-12-27 16:09:38		NYC Office	ads.playboy.com
2013-12-27 16:09:37		NYC Office	static2.playboy.com
2013-12-27 16:09:37		NYC Office	static2.playboy.com
2013-12-27 16:09:37		NYC Office	static2.playboy.com
2013-12-27 16:09:37		NYC Office	static2.playboy.com

- Client Policy: Block Adult Sites
- Test: Ask CFO to visit playbot
- Send him screenshot in a ticket



Detect Rogue Software

1	Time 🔻	Domain	URL
22	2014-03-10 13:42:00	toolbar.shopathome.com	toolbar.shopathome.com/install/ie/update.xml
37	2014-03-03 13:27:08	toolbar.shopathome.com	toolbar.shopathome.com/install/ie/update.xml
10	2014-03-02 13:27:07	toolbar.shopathome.com	toolbar.shopathome.com/install/ie/update.xml
45	2014-03-17 07:51:40	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
16	2014-03-17 07:51:10		toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
17	2014-03-14 14:45:07	toolbar.shopathome.com	toolbar.shopathome.com/install/download.aspx?subid=&isnew=y
19	2014-03-13 12:19:30	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
51	2014-03-12 12:19:59	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
52	2014-03-12 12:19:32	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
56	2014-03-11 08:28:53	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
57	2014-03-11 07:45:25	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
50	2014-03-10 08:29:22	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
51	2014-03-10 08:28:52	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
53	2014-03-07 11:18:03	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
54	2014-03-06 15:01:14	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
55	2014-03-06 13:30:32	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
57	2014-03-05 15:01:44	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
58	2014-03-05 15:01:14	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
70	2014-03-04 12:57:30	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
71	2014-03-04 12:57:01	toolbar.google.com	toolbar.google.com/buttons/feeds/topbuttons/?hl=en&sd=com
73	2014-03-03 10:31:24	toolbar.google.com	toolbar.google.com/tbredir?r=ie8am&l=en&sd=com&v=7.5
30	2014-03-11 08:35:48		toolbar.yahoo.com
37	2014-03-05 08:16:04	toolbar.aol.com	toolbar.aol.com/utilities/system.js
38	2014-03-05 08:16:04	toolbar.aol.com	toolbar.aol.com/config_files/pixeldata.js
39	2014-03-05 08:16:04	toolbar.aol.com	toolbar.aol.com/utilities/omniture.js
90	2014-03-05 08:16:04	toolbar.aol.com	toolbar.aol.com/utilities/metrics.js

- Default Policy: No toolbars allowed
- A quick search for "toolbar"
- Detected unauthorized/guest equipment



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Resources

Whitepaper:

- How To Increase Revenues And Profits Using Cyberoam
- 2) Bootcamp Bonus: Marketing methods to use to sell managed security.

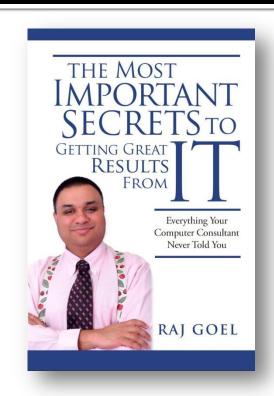
(you must sign up by May 5th)

Contact Information

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Author of "The Most Important Secrets To Getting Great Results From IT" http://www.amazon.com/gp/product/0984424814