Cybersecurity





Security Vs. Privacy





Technology, Distraction?

There were 500 apps on the first iteration of Apple's App Store in 2008. In 2018, Apple announced that there were 20 million registered iOS developers. They have 500 million weekly visitors to the App Store alone. Total number of app downloads in 2018 was 194 billion.





SDA Mission

The mission of the Seventh-day Adventist Church is to call all people to become disciples of Jesus Christ, to proclaim the everlasting gospel embraced by the three angels' messages (Revelation 14:6-12), and to prepare the world for Christ's soon return.



1 Corinthians 7:35 Now I say this for your own benefit—not to put a restraint on you, but to promote proper and constant service to the Lord without distraction.



The User Profile Service service failed the sign-in. User profile cannot be loaded.





	H all sudrdp.centralindia.cloudapp.azure.com _ = = + ×	
8 888btc888@keemail.me		
All your files have been encrypted due to a s Write this ID in the title of your message CO In case of no answer in 24 hours write us to	Image: Constraint of Constraints of	
You have to pay for decryption in Bitcoins. The pr Free decryption as guarantee Before paying you can send us up to 1 file (databases,backups, large excel sheets, etc	for free decryption. The total size of files must be less than 1Mb (non archived), and files should not contain valuable information.	
How to obtain Bitcoins The easiest way to buy bitcoins is LocaBitco https://locabitcoins.com/buy_bitcoins Also you can find other places to buy Bitcoin http://www.coindesk.com/information/how-		

sudrdp.centralindia.cloudapp.azure.com



eader

FILES

Googl Chrome.l

SunSyste

Manager



All your files have been encrypted!

All your files have been encrypted due to a security problem with your PC. If you want to restore them, write us to the e-mail 888btc888@keemail.me Write this ID in the title of your message C6AF373F

In case of no answer in 24 hours write us to theese e-mails: 888btc888@india.com

You have to pay for decryption in Bitcoins. The price depends on how fast you write to us. After payment we will send you the decryption tool that will decrypt all your files.

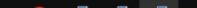
Free decryption as guarantee

Before paying you can send us up to 1 file for free decryption. The total size of files must be less than 1Mb (non archived), and files should not contain valuable information. (databases, backups, large excel sheets, etc.)

How to obtain Bitcoins

The easiest way to buy bitcoins is LocalBitcoins site. You have to register, click 'Buy bitcoins', and select the seller by payment method and price. <u>https://localbitcoins.com/buy_bitcoins</u> Also you can find other places to buy Bitcoins and beginners guide here:

http://www.coindesk.com/information/how-can-i-buy-bitcoins/





~

~

Wana Decrypt0r 2.0



Copy

.

English

Decrypt

Cyber Security Risks

1.DDoS 2.Hacking 3.Malware 4.Ransomware 5.Phishing (Most Often Used)





Ooops, your files have been encrypted! English

What Happened to My Computer?

Wana Decrypt0r 2.0

Payment will be raised on

5/15/2017 15:58:08 Time Left

Your files will be lost or 5/19/2017 15:58:08 Time Left 15:1 23:1 58:1 59

About bitcoin How to buy bitcoins? Contact Us Your important files are encrypted. Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?

Check Payment

Send \$300 worth of bitcoin to this address: ACCEPTED HERE Send \$300 worth of bitcoin to this address: Cop
How Do I Pay? Payment is accepted in Bitcoin only. For more information, click <about bitcoin="">. Please check the current price of Bitcoin and buy some bitcoins. For more information, click <how bitcoins="" buy="" to="">. And send the correct amount to the address specified in this window. After your payment, click <check payment="">. Best time to check: 9:00am - 11:00am</check></how></about>
Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time. You can decrypt some of your files for free. Try now by clicking <decrypt>. But if you want to decrypt all your files, you need to pay. You only have 3 days to submit the payment. After that the price will be doubled. Also, if you don't pay in 7 days, you won't be able to recover your files forever. We will have free events for users who are so poor that they couldn't pay in 6 months.</decrypt>

Decrypt



Ransomware

.- Today, we know that more than 1 out of every 5 businesses that are hit with Ransomware go out of business and cease all operations within a week or two after the attack occurs

.- Ransomware impacts on-premise and cloud backups just the same

.- the average cost to unlock the typical Ransomware attack has grown to around \$10,000, the Ryuk strain of Ransomware now charges, on average, \$288,000, per attack

.- The latest studies show that Ransomware downtime costs each infected entity around \$8,500 per hour of downtime





Image by Gia Conte-Patel from Pixabay

Subscribe 116k 0 13 Reactions

The City of Johannesburg detected a network breach which resulted in unauthorised access to its information systems on Thursday afternoon by an unknown and unconfirmed group of hackers. As a precautionary measure, COJ has shut down several customer systems for about 24 hours.



The City of Johannesburg suffered a major network breach on Thursday 24 October 2019 when a group, reportedly known as the Shadow Kill Hackers, allegedly hacked into its system.

According to a report, the hackers left a bitcoin ransom note via Twitter. <u>Business Day</u> wrote that the hackers are demanding 4.0 bitcoins by 28 October at 5pm. If the City fails to do so they threatened to upload all the data they have procured onto the internet. •

"All your servers and data have been hacked. We have dozens of back doors inside your city. We have control of everything in your city. We also compromised all passwords and sensitive data such as finance and personal population information," the ransom note reportedly said.



City of Johannesburg Attack

File Action View Help

Active Directory Users and Computers [zajwl A	10.00	12	NUMBER NO.	_
Active Directory Users and Computers [2ajwi A	Name	Туре	Description	
 joburg.local 	Wemmer Complex	Organiz	Wemmer Complex JMPD	
ACA Krans	Replication Test	Organiz	Test replication	
Admins	E Servers	Organiz	Servers - Windows 2000, 2003 and 2008	_
Andries Street	CpsMgrLatencyMonitors	Container	SCOM Latency Monitor	na
> Builtin	Sandton Civic	Organiz	Sandton - 24 Fredman Drive	
> CI Cronje	Coperations Manager	Container	Root Container for SystemCenter Operations Manager	-
> Computers	🗐 Roodepoort	Organiz	Servers - Windows 2000, 2003 and 2006 SCOM Latency Monitor Sandton - 24 Fredman Drive Root Container for SystemCenter Operations Manager Roodepoort Civic - Florida, City Hall	С
> CRMPOC	Proton House	Organiz	Proton House Call Centre - Golfclub Terrence	-
S CSIR Test	🖬 Phakama	Organiz	Phakama Abour Square - Juta Street	
> Deploy ASEP test	IBMBB	Organiz	OU for IBM PMCS related data	
> Disabled	Disabled	Organiz	OU for disabled computers	
> 🗃 Domain Controllers	3 Midrand	Organiz	Midrand Teljoy Building, Alphen Square and Firestation	
> EMC Celerra	Metro	Organiz	Metro Civic Centre (158 Loveday Street)	
> C EMC NAS servers	Martindale	Organiz	Martindale JMPD	
> 🖻 Eureka House	Mariboro	Organiz	Marlboro JMPD	
> 3 FIM Managed Users and Groups	Jorisson Place	Organiz	Jorissen Place and Thuso House	
> I FIM Service Accounts	Johannesburg Central Library	Organiz	Johannesburg Central Library	
> iii ForeignSecurityPrincipals	Jabulani	Organiz	Jabulani Civic, Ennedale, Lenesia	
> 🗊 GPO's	ISDC	Organiz	IS Data Center OU - Sandton and Aventail	
> Amburg Training Centre	Hamburg Training Centre	Organiz	Hamburg Depot	
> 📓 IBMBB	a GPO's	Organiz	Group Policies	
V 💼 ISDC	Microsoft Exchange Security	-	Exhcange OUs	
> 📔 Default Users	POCUsers	-	Exhange POC users OU	
> 🛋 Groups	POCContacts	Organiz		
> 🖬 Restricted Users		Organiz	Exchange POC Contacts	
> 🖹 Servers	Eureka House	Organiz	Eureka House OU	
> Temp Proxy Test Users	Program Data	Container	Default location for storage of application data.	
> 🖆 Tombstones	Users	Container	Default container for upgraded user accounts	
> 📓 Workstations	Computers	Container	Default container for upgraded computer accounts	
> 😰 Jabulani	ForeignSecurityPrincipals	Container	Default container for security identifiers (SIDs) associated with objects from external, trusted doma	ains
> Dohannesburg Central Library	LostAndFound	lostAnd	Default container for orphaned objects	
> 📓 Jorisson Place	Domain Controllers	Organiz	Default container for new Windows 2000 domain controllers	
> 🔛 Keys	Managed Service Accounts	Container	Default container for managed service accounts.	
> CostAndFound	Keys .	Container	Default container for key credential objects	
> Managed Service Accounts	CJ Cronje	Organiz	CJ Cronje People's Center	
> iii Marlboro	System 3	Container	Builtin system settings	
> 🖹 Martindale	ACA Krans	Organiz	Auckland Park	
> iii Metro	Admins 1	Organiz	Admins OU	
> 📓 Metro Trading Company	Andries Street	Organiz	53A Andries Street	
Microsoft Exchange Security Groups	Infrastructure	infrastru		
> S Midrand	Builtin	builtinD		
> S MIM 222 Smit Street	CRMPOC	Organiz		
Mint Managed Deleted Freeze	CSIR Test	Organiz		

Shadow Kill Hackers DC TAKEOVER



City of Johannesburg Attack

B DNS	Name	Туре	Data	Timestamp	
ZAJW03ISWAD04	(same as parent folder)	Start of Authority (SOA)	[24427339], zajw03iswad04	static	
Forward Lookup Zones	(same as parent folder)	WINS Lookup	[168.89.121.204]	static	
> 🛐 _msdcs.joburg.local	(same as parent folder)	Name Server (NS)	zajw03iswad05.joburg.local.	static	
> 🛐 coj.com	(same as parent folder)	Name Server (NS)	zajw00dcwad07.joburg.loc		
> 🛐 cojestatements.co.za	(same as parent folder)	Name Server (NS)	zajw00dcwad03.joburg.loc		
> 🛐 dmz.za.ibm.com	(same as parent folder)	Name Server (NS)	zajw03iswad04.joburg.local.	static	
> 🛐 eservicesuat.joburg.org.za	(same as parent folder)	Name Server (NS)	zajw05dcwad08.joburg.loc		
> 🛐 extaddinscojdev.org.za	(same as parent folder)	Name Server (NS)	zajw05dcwad07.joburg.loc		
> 🛐 extranet.joburg.org.za	(same as parent folder)	Name Server (NS)	zajw08hswad02.joburg.loc		
> 📑 extranetuat.joburg.org.za	(same as parent folder)	Name Server (NS)	zajw10dcwad02.joburg.loc		
> 🔂 Forcelink.net	(same as parent folder)	Host (A)	168.89.180.19	2019/09/27 1:00:00 AM	
> 🛐 Intaddinscojdev.org.za			168.89.250.14	static	
> 🛃 jhbtourism.local	(same as parent folder)	Host (A)	168.89.250.12		
joburg.local	(same as parent folder)	Host (A)		2019/09/25 8:00:00 PM	
>	(same as parent folder)	Host (A)	10.187.113.27	2019/09/25 6:00:00 PM	
> G dev	(same as parent folder)	Host (A)	168.89.121.204	2019/10/01 11:00:00 AM	
> ehealth	(same as parent folder)	Host (A)	168.89.250.237	2019/10/02 3:00:00 AM	
> ereatin	(same as parent folder)	Host (A)	168.89.180.7	2019/09/28 3:00:00 PM	
> 🔂 eservicesuat	(same as parent folder)	Host (A)	168.89.121.203	2019/09/29 6:00:00 PM	
> 🔄 internetdev	(same as parent folder)	Host (A)	168.89.181.11	2019/09/28 1:00:00 AM	
> joburgopen	(same as parent folder)	Host (A)	10.189.252.5	2019/09/25 7:00:00 PM	
> i jozinet	(same as parent folder)	Host (A)	168.89.181.10	2019/09/29 5:00:00 AM	
> iozinetuat	4048SW	Host (A)	10.187.3.27	2019/09/28 11:00:00 PM	
> C prd	404WWA	Host (A)	168.89.146.66	2019/09/30 7:00:00 AM	
> 📑 qa	405ilb	Host (A)	168.89.150.4	2019/09/25 11:00:00 AM	
> iii www	405LD5	Host (A)	10.187.113.126	2019/09/09 9:00:00 AM	
> www-dev	4062a0	Host (A)	168.89.74.119	2019/09/27 6:00:00 AM	
> 🔛 www-uat	4062a0	Host (A)	10.189.106.111	2019/09/27 6:00:00 AM	
> 👩 joburgombudsman.org.za	406RAW	Host (A)	168.89.146.39	2019/09/25 8:00:00 AM	
> 🛐 joburgopen.com	406SAB	Host (A)	10.189.17.13	2019/10/02 7:00:00 AM	
> 🛐 joburgtourism.com	406SAB	Host (A)	10.187.40.4	2019/10/02 7:00:00 AM	
> 🛐 joh.za.ibm.com	406SAC	Host (A)	10.189.17.95	2019/09/27 1:00:00 PM	
> 🛐 lufhereng.co.za	406yy0	Host (A)	10.187.56.175	2019/10/02 8:00:00 AM	
> 🛐 mj.org.za	408TVS	Host (A)	168.89.174.172	2019/09/26 10:00:00 AM	
> 🛐 za.ibm.com	409AXN	Host (A)	168.89.89.129	2019/10/01 7:00:00 AM	
> Reverse Lookup Zones	409DUC	Host (A)	168.89.208.28	2019/10/01 1:00:00 PM	
> Conditional Forwarders	409DUD	Host (A)	10.189.72.33	2019/10/02 11:00:00 AM	
	409DUJ	Host (A)	10.187.2.41	2019/10/02 11:00:00 AM	
	409DUK	Host (A)	10.189.10.55	2019/09/30 10:00:00 AM	
	409DUP	Host (A)	10.189.60.226	2019/10/02 8:00:00 AM	
	409DUP	Host (A)	10.187.61.80	2019/10/02 8:00:00 AM	
	409DUQ		10.187.60.209	2019/10/02 8:00:00 AM	
	1 40900Q	Host (A)	10.167.00.209	2019/10/02 8:00:00 AM	



Ransomware Prevention Best Practices

.- Do not pay the ransom.

.- Make sure you have Backups on premise and on cloud with a good retention policy

.- Use VPN

.- Do make sure that all systems and software are up-to-date with relevant patches.

.- Use Antivirus and Firewall and good security policies



Cloud

sudrdp.centralindia.cloudapp.azure.com

Recycle B 888btc888@keemail.me

Reader

FILES

Google Chrome.l

SunSyste

Manager



All your files have been encrypted!

All your files have been encrypted due to a security problem with your PC. If you want to restore them, write us to the e-mail 888btc888@keemail.me Write this ID in the title of your message C6AF373F

In case of no answer in 24 hours write us to theese e-mails: 888btc888@india.com

You have to pay for decryption in Bitcoins. The price depends on how fast you write to us. After payment we will send you the decryption tool that will decrypt all your files.

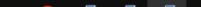
Free decryption as guarantee

Before paying you can send us up to 1 file for free decryption. The total size of files must be less than 1Mb (non archived), and files should not contain valuable information. (databases, backups, large excel sheets, etc.)

How to obtain Bitcoins

The easiest way to buy bitcoins is LocalBitcoins site. You have to register, click 'Buy bitcoins', and select the seller by payment method and price. <u>https://localbitcoins.com/buy_bitcoins</u> Also you can find other places to buy Bitcoins and beginners guide here:

http://www.coindesk.com/information/how-can-i-buy-bitcoins/





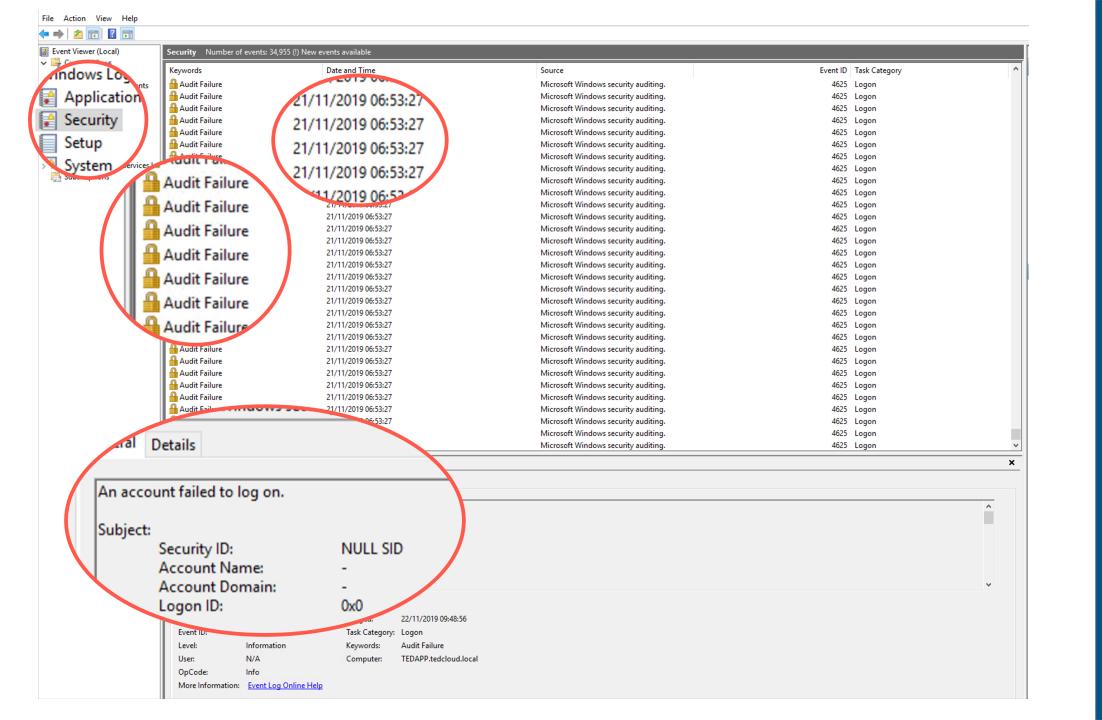
V

~

А	В	С	D	E	F	G
	Name	ID(SUD\)ID(SUD\)	Password	IP	SUNPLUS	
				104.211.93.72		
Spicer						
			P@ssw0rd			
			P@ssw0rd		LHA	
			P@ssw0rd		MMU	
			P@ssw0rd		PGA	
			P@ssw0rd		PGA	
			P@ssw0rd		RAB	
			P@ssw0rd		RCH	
			SInn@1231	Ś	SSW	
			P@ssw0rd		SKA	
	if the local bases		P@ssw0rd		IDM	
	- Mill other Mines		P@ssw0rd		MDJ	
WIU						
			P@ssw0rd		LPM	
			P@ssw0rd		NJJ	
			P@ssw0rd		VCS	
SEIU						
					STM	
			P@ssw0rd	Q	AXA	ALX
			P@ssw0rd		VKN	VIK
			P@ssw0rd		EZE	
			P@ssw0rd			
CMS						
			P@ssw0rd		SSD	
			P@ssw0rd		MWS	
			P@ssw0rd		PRA	
<cs< td=""><td></td><td></td><td></td><td></td><td></td><td></td></cs<>						
			P@ssw0rd		INS	
			P@ssw0rd		JDS	
STC						
			P@ssw0rd		CRS	
		and the second sec	P@ssw0rd		ASA	



Sheet1





2 III 2 III t Viewer (Local)	c urity Number of events: 35,830				Actions
ustom Views		Date and Time	Source	Event ID Task Category	A Securit
Server Koles	ywords Audit Success	11/10/2019 7:38:56 PM	Microsoft Windows security auditing.	4624 Logon	
Administrative Events	Audit Success	11/10/2019 7:38:56 PM	Microsoft Windows security additing.	4624 Logon	💣 Оре
/indows Logs	Audit Success	11/10/2019 7:38:56 PM	Microsoft Windows security auditing.	4648 Logon	🛛 🔻 Crea
Application	Audit Success	11/10/2019 7:38:56 PM	Microsoft Windows security additing.	5061 System Integrity	Imp
Security	Audit Success	11/10/2019 7:38:56 PM	Microsoft Windows security auditing.	5058 Other System Events	Clea
Joccob	Audit Success	11/10/2019 7:38:54 PM	Microsoft Windows security auditing.	4624 Logon	
- System	Audit Success	11/10/2019 7:38:53 PM	Microsoft Windows security auditing.	4634 Logoff	
	Audit Success	11/10/2019 7:38:53 PM	Microsoft Windows security auditing.	4624 Logon	Pro
	Audit Success	11/10/2019 7:38:29 PM	Microsoft Windows security auditing.	4634 Logoff	🛛 🔐 Fin
	Audit Success	11/10/2019 7:38:29 PM	Microsoft Windows security auditing.	4634 Logoff	Sav
	Audit Success	11/10/2019 7:38:29 PM	Microsoft Windows security auditing.	4647 Logoff	
	Audit Success	11/10/2019 7:06:46 PM	Microsoft Windows security auditing.	4634 Logoff	Atta
	Audit Success	11/10/2019 7:05:08 PM	Microsoft Windows security auditing.	4634 Logoff	Viev
		11/10/2019 7:05:08 PM	Microsoft Windows security auditing.	4634 Logoff	Q Ref
Λ.	idit Success	11/10/2019 7:05:08 PM	Microsoft Windows security auditing.	4634 Logoff	I Hel
AU	fuit Success	11/10/2019 7:05:07 PM	Microsoft Windows security auditing.	4647 Logoff	
	idit Success	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4624 Logon	Event
	fuit Success	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4648 Logon	Eve
	idit Success	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4672 Special Logon	
	fuit Success	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4672 Special Logon	Att
Δ.	idit Success	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4624 Logon	Coj
	an Success	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4624 Logon	📄 Sav
Δ.	idit Succes	11/10/2019 7:04:03 PM	Microsoft Windows security auditing.	4648 Logon	Q Ref
	and bucc	11/10/2019 7:03:57 PM	Microsoft Windows security auditing.	4624 Logon	I Hel
<u> </u>	Audit Success	11/10/2019 7:00:22 PM	Microsoft Windows security auditing.	4634 Logoff	
	Audit Success	11/10/2019 6:59:59 PM	Microsoft Windows security auditing.	4634 Logoff	
Q	Audit Success	11/10/2019 6:58:41 PM	Microsoft Windows security auditing.	4634 Logoff	
	Audit Success	11/10/2019 6:58:41 PM	Microsoft Windows security auditing.	4634 Logoff	
	Audit Success	11/10/2019 6:58:41 PM	Microsoft Windows security auditing.	4634 Logoff	
	Audit Success	11/10/2019 6:58:41 PM	Microsoft Windows security auditing.	4647 Logoff	
	Audit Success	11/10/2019 6:55:25 PM	Microsoft Windows security auditing.	4634 Logoff	~
Ev	logged off.				×
	togged off.				
					-
ct:	-			^	
Securit	y ID:	CIS\SLVUser2			
Accourt	nt Name:	SLVUser2		=	
Accour	nt Domain:	CIS			
Logon	ID:	0x28F8570F			
Logon	10.	0,20103701		✓	
		10			
	Event ID:	rask Category: Logoff			
	Level: Information	Keywords: Audit Success			
	User: N/A	Computer: 621IADRDS.CIS.CloudSDA.ORG			
	OpCode: Info				



Cybersecurity Best Practices

•Use VPN

Understand your shared responsibility

•Compliance with identity and and access restrictions

•Use secure endpoints

•Keep in mind that simple errors can cause massive damage



Cybersecurity Best Practices

•Keep in mind that simple errors can cause massive damage

Did you know that 91% of successful data breaches started with a spear phishing attack?



Urgent: Mandatory Password Reset

IT <IT@sunplus.adventist.org> GST Distribution Group Wednesday, February 20, 2019 at 22:26 Show Details



Your IT administrator has initiated a mandatory password reset for your organization due to a suspected hacking attempt.

Please create a new password immediately to ensure your account is protected.

CREATE NEW PASSWORD

© Microsoft Team. All rights reserved.





Refund Notification

Due to a sytem error you were double charged for your last order, A refund process was initiated but could not be completed due to errors in your billing information

REF CODE:2550CGE

You are required to provide us a valid billing address

Click Here to Update Your Address

After your information has been validated you should get your refund within 3 business days

We hope to see you again soon. <u>Amazon.com</u> Email ID:



Urgent: Mandatory Password Reset

IT <IT@sunplus.adventist.org> GST Distribution Group Wednesday, February 20, 2019 at 22:26 Show Details



Your IT administrator has initiated a mandatory password reset for your organization due to a suspected hacking attempt.

Please create a new password immediately to ensure your account is protected.

CREATE NEW PASSWORD

© Microsoft Team. All rights reserved.

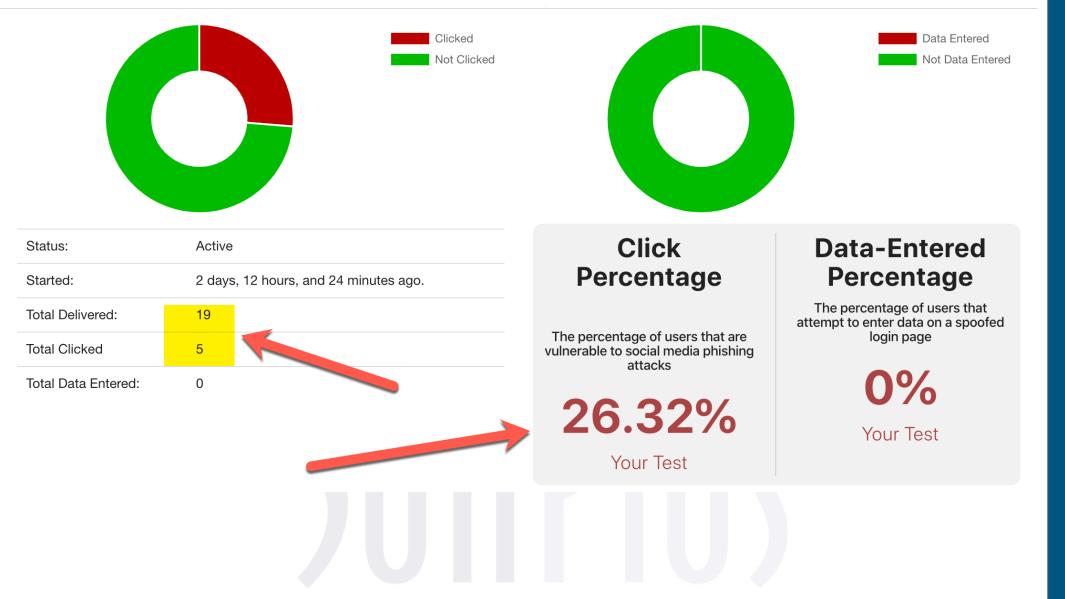


From: Facebook <notify@facebook.authentlcation.com> Reply-to: Facebook <notify@facebook.authentlcation.com> Subject: Your friend tagged you in photos on Facebook Template ID: 324866-985843 ✓ Send me a test email

Toggle red flags



Close









THE ROOT OF THE PROBLEM

"Who owns the information, he owns the world."

Nathan Rothschild 1777-1836





The root of the problem

•30% of organizations have sensitive/confidential information leaked through email

•28% of phishing (email) attacks successfully steal your credentials

•24% of phishing attack successfully infects systems with malware

•13% of email as part of a CEO (Fraud) attack successfully trick one or more senior

executive in the organization



Let's talk Solution

Antivirus: 60% of data breaches can be stopped with a good AV

•Multi-factor authentication.

•Defend against Ransomware attacks storing files in the cloud. Google drive for

business or OneDrive for business.

•Educate employee on how to spot and report phishing emails, attachments, links

and websites.

•Used corporate solutions cloud based is a way to be better protected.



Let's talk Solution

CARBONITE Server Backup										
Da	shboard	Compute	ers Monitor	Reports	Policies	Users				
Actio	ins	Ŧ								
	Name 🔺					De	escriptio	n		As
										A
	Global 256-bi	t Encryption								Yes
	Policy	Options	Notifications	Performance	e Vaul	ts Com	mon	Retention Types	Inclusions/Exclusions	
	Retention	Name			Day	ys Online			Copies Online	
	Daily				30				30	
	Weekly				31				5	
	Monthly				365	5			12	

