Dr. Raimund K. Ege Northern Illinois University, USA

Cyber-Security: Current Practice and Future Trends



















































































































ate Example	
Certificate Viewer' Builtin Object Token:Equifax Secure Global eBusiness CA*	
General Details	
This certificate has been verified for the following uses: SSL Certificate Authority	
Issued To Equifax Secure Global eBusiness CA-1 Organization (0) Equifax Secure Inc. Organizational Unit (0U) <not certificate="" of="" part=""> Serial Number 01</not>	
Issued By Equifax Secure Global eBusiness CA-1 Organization (O) Equifax Secure Inc. Organizational Unit (OU) <not certificate="" of="" part=""></not>	
Validity Issued On 6/20/1999 Expires On 6/20/2020	
Fingerprints SH43, Fingerprint 7E784A101C8265:CC2DE1:F16047:8440:C4:09:04:1945 MD5 Fingerprint 8F5D:77.06:27:C4983C589378:E7:077:D98:CC	
	Certificate Viewer: Builtin Object Token:Equifax Secure Global eBusiness CA* Seneral Details This certificate has been verified for the following uses: SSL Certificate Authority Bused To Common Name (CN) Equifax Secure Global eBusiness CA-1 Organizational Unit (OU) A Equifax Secure Global eBusiness CA-1 Organizational Unit (OU) Voit Part OF Certificate> Serial Number 01 Lasued By Common Name (CN) Equifax Secure Global eBusiness CA-1 Organization (0) Equifax Secure Global eBusiness CA-1 Organization (0) Equifax Secure Global eBusiness CA-1 Organization (0) Equifax Secure Inc. Organizational Unit (OU) VNet Part OF Certificate> Validity Equifax Secure Inc. Used On 6/20/1999 Expires On 6/20/2020 Fingerprint 7E784A101C82655:CC2DE1:F1:6D47:84:40:C4:0090:A19:45


























<u> </u>		
Gene	erate Key pair	
	, ,	
	Generate OpenPGP Key	
	Account / User ID Dr. Raimund K. Ege <ege@niu.edu> - NIU</ege@niu.edu>	
	Image: Second	
	Comment no password Key expiry Advanced	
	Key expires in 5 years 💌 🗆 Key does not expire	
	Generate key Cancel	
	Key Generation Console. NOTE: Key generation may take up to several minutes to complete. Do not exit the application while key generation is in progress. Actively browsing or performing disk-intensive operations during key generation will replenish the 'randomness pool' and speed-up the process. You will be alerted when key generation is completed.	
March 1, 2009	GlobeNet 2009 - Tutorial T1: Ege - CyberSecurity	÷

	p public	: key	/				
OpenPGP Key Ma					A STREET		×
<u>File Edit View</u> Filter for user ID's or	Keyserver Generate Refresh Selected Public Keys Search for Keys			<u>C</u> lear			
Account / User ID		Key ID T	ype l	Key Validity	Owner	Expiry	E\$



Key	y Managen	nent					
	OpenPGP Key Management					×	
	<u>File Edit View K</u> eyserver <u>G</u> enerate						
	Filter for user ID's or key ID's containing:		Clear				
	Account / User ID	Key ID Type	Key Validity	Owner	Expiry	12	
	Dr. Raimund K. Ege (no password) <ege@niu. Dr. Raimund K. Ege <ege@cs.fiu.edu></ege@cs.fiu.edu></ege@niu. 	edu> F1D88AEF pub/sec 983B0B2A pub/sec	ultimate	ultimate	2/12/2014		
March 1, 20	009 GlobeNet 2009 - Tu	utorial T1: Ege - Cybe	erSecurity				76

OpenPGP Key Management					×
<u>File Edit View K</u> eyserver <u>(</u>	Generate				
Filter for user ID's or key ID's conta	ining:	Clear			
Account / User ID	Key ID Type	Key Validity	Owner	Expiry	EŞ.
Dr. Raimund K. Ege (no pax Dr. Raimund K. Ege <ege@< td=""><td>Copy Public Keys to Clipboard Export Keys to File Send Public Keys by Email Upload Public Keys to Keyserver Refresh Public Keys From Keyserver Sign Key Set Owner Trust Disable Key Revoke Key Delete Key</td><td>ultimate -</td><td>ultimate</td><td>2/12/2014</td><td></td></ege@<>	Copy Public Keys to Clipboard Export Keys to File Send Public Keys by Email Upload Public Keys to Keyserver Refresh Public Keys From Keyserver Sign Key Set Owner Trust Disable Key Revoke Key Delete Key	ultimate -	ultimate	2/12/2014	
	Manage User IDs Change Passphrase Generate & Save Revocation Certificate				

Compose email	
Compose: secure email	
File Edit View Insert Format Options OpenPGP Tools Help	
Send Contacts Spell Attach OpenPGP S/MIME Save	
From: Dr. Raimund K. Ege <ege@niu.edu> - NIU</ege@niu.edu>	
To: its ege@cs.fiu.edu	
Subject: secure email	
Body Text ▼ Variable Width ▼ ■ A* A* B / U := ½ * *	
is being sent encrypted and signed.	
Regards,	
Raimund Ege	
March 1, 2009 GlobeNet 2009 - Tutorial T1: Ege - CyberSecurity	78























































			.com	
0.	A A A A A A A A A A A A A A A A A A A	A OpenDNS.com	ill Dashboard 🗭 Community <u>raimundeae</u> (<u>Sian out</u>) I	
U	DenDNS dashboard		INGS NETWORKS SHORTCUTS SUPPORT TELL A FRIEND	
		STATS	INGS NETWORKS SHORICOTS SUPPORT TELL A FRIEND	
	Manage Settings for: 6	64.135.203.112/3	2 (Home)	
	e totella i	Content Filtering		
	Content Filtering Customization	Content Pittering		
	Advanced Settings	Choose your filte	ring level	
	Users can contact you	High	Protects against all adult-related sites, illegal activity, social	
		0 mgn		
	Your users can contact you		networking sites, video sharing sites, and general time-wasters.	
	directly from the block page if		networking sites, video sharing sites, and general time-wasters. 27 categories in this group - <u>View</u> - <u>Customize</u>	
		Moderate	27 categories in this group - <u>View</u> - <u>Customize</u> Protects against all adult-related sites and illegal activity.	
	directly from the block page if they have questions. It'll show		27 categories in this group - <u>View - Customize</u> Protects against all adult-related sites and illegal activity. 14 categories in this group - <u>View - Customize</u>	
	directly from the block page if they have questions. It'll show up as an email in your inbox. Note about DNS forwarding If you are forwarding requests	ModerateLow	27 categories in this group - <u>View</u> - <u>Customize</u> Protects against all adult-related sites and illegal activity. 14 categories in this group - <u>View</u> - <u>Customize</u> Protects against pornography and phishing.	
	directly from the block page if they have questions. It'll show up as an email in your inbox. Note about DNS forwarding	C Low	27 categories in this group - <u>View</u> - <u>Customize</u> Protects against all adult-related sites and illegal activity. 14 categories in this group - <u>View</u> - <u>Customize</u> Protects against pornography and phishing, 5 categories in this group - <u>View</u> - <u>Customize</u>	
	directly from the block page if they have questions. It'll show up as an email in your inbox. Note about DNS forwarding If you are forwarding requests to OpenDNS, domain blocking may not work properly if the domain's address is in your		27 categories in this group - <u>View</u> - <u>Customize</u> Protects against all adult-related sites and illegal activity. 14 categories in this group - <u>View</u> - <u>Customize</u> Protects against pornography and phishing.	
	directly from the block page if they have questions. If I show up as an email in your inbox. Note about DNS forwarding If you are forwarding requests to OpenDNS, domain blocking may not work properly if the	C Low	27 categories in this group - <u>View</u> - <u>Customize</u> Protects against all adult-related sites and illegal activity. 14 categories in this group - <u>View</u> - <u>Customize</u> Protects against pornography and phishing. S categories in this group. <u>View</u> - <u>Customize</u> Protects against phishing attacks.	
	directly from the block page if they have questions. It'll show up as an email in your inbox. Note about DNS forwarding If you are forwarding requests to OpenDNS, domain blocking may not work properly if the domain's address is in your	LowMinimal	27 categories in this group - <u>View</u> - <u>Customize</u> Protects against all adult-related sites and illegal activity. 14 categories in this group - <u>View</u> - <u>Customize</u> Protects against pornography and phishing. 5 categories in this group - <u>View</u> - <u>Customize</u> Protects against phishing attacks. 1 category in this group - <u>View</u> - <u>Customize</u>	





