## **Document Signing (in Ubuntu)**

Users will get 2 certificates from CA-

- User certificate for document/signing purpose. 1.
- 2. CA's root certificate, used to verify/authorize the user certificate.

User certificate will be in PKCS12 format. Also, user will set a password to import/export the certificate. File name will be, for example, testuser.p12.

	8 testuse	er.p12 Prop	perties	<b> </b>
testuser.p12		Name: Type: Size:	testuser.p12 PKCS#12 certificate bundle (application/x-pkcs12) 1.8 KB (1866 bytes)	
testCCA		Location: Volume:	/home/tanim/Desktop unknown	
testDOC.odt		Accessed: Modified:	Thu 12 Aug 2010 06:26:55 PM BDT Tue 01 Jun 2010 07:03:46 PM BDT	
# Loa dn: c objec cn: m backend.UbuntuOS,	Help		Close	
Idif	be in DER	PEM for	mat. File name will be, such as, rootCA.crt.	

User will first import the certificate into Mozilla Firefox browser. Open Firefox, click on Edit-> preferences.

Notes

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🔞 Password Entry Dia	alog
Please enter the password certificate backup.	that was used to encrypt this
Password:	
	🛛 Cancel 🛛 🖉 OK

Upon entering password, It will show a message of successful import.



Start OpenOffice Word processor and create new document. Compose some article and save the document with a suitable name. Now to add digital signature, click File->Digital Signature.



It will show a dialog 'Digital Signatures'. Click on Add.	
Digital Signatures	
The following have signed the document content:	
Signed by Digital ID issued by Date	
View Certificate	
<u>O</u> K <u>C</u> ancel <u>H</u> elp	
Select your certificate from the list of available certificates. Now Click 'Ok' to complete signing the document digitally	
signing the document digitally.	

8	Digital Signatures		
The	following have signed t	he document content:	
	Signed by	Digital ID issued by	Date
۲	testuser	testuser	09/28/2010 15:50:40
<b>@</b> ] '	The signatures in this do	cument are valid 🔓	
	View Certificate	Add	<u>R</u> emove
		OK <u>C</u> ancel	<u>H</u> elp
t the	middle-bottom of the do	ocument an indicator will appea	ar, hovering cursor on it
ill sł	now: The Document Sig	nature is Ok'.	

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Image: Cupdate Manager         Testasetpl3 Properties           Illustration         1: sample PKCS12 file	
Itser will first import the certificate into mozilla firefox browser. Open firefox, click on Edit->	
preferences.	
Go to Advanced->Encryptions->View certificates ->Your certificates. Click on 'Import' button. Choose the pkcs12 file (with p12 extension). It will ask for the password, set for import/export purpose. It will show a message of successful import.	
Start <u>OpenOffice</u> Word processor and create new document. Compose some article and save the	
document with a suitable name. Now to add digital signature, click File->Digital Signature. It will show a dialog 'Digital Signatures'. Click on Add to import your cetifcate, pkcs12 file received from CA.	
Select your certificate from the list of available certificates. Now Click Ok to complete signing the document digitally. At the middle-bottom of the document an indicator will appear, hovering cursor on	
it will show: The Document Signature is Qk'. That's it!!! any change in the document by some unauthorized/ unscrupulous will break/remove the signature. While Opening the document it will show	
a message as below picture. You will get a different indicator in this case, hovering on it will show – the document Signature does not match document content. We strongly recommend you do not to trust	
า เการ document.	
Page 1 / 1 Default English (USA) INSRT STD	
	-
I hat's it!!! any change in the document by some unauthorized/unscrupulous will break/remove the signature. While Opening the document it will show a message a	38
below	
🛛 😣 OpenOffice.org - Invalid Document Signature	
The digitally signed document content and/or macros do not match	
the current document signature.	
This could be the result of document manipulation or of structural	
document damage due to data transmission.	
We recommend that you do not trust the content of the current	
We recommend that you do not trust the content of the current document. Execution of macros is disabled for this document.	
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You will get a different indicator in this case, hovering on it will show – 'the document Signature does not match document content. We strongly recommend you do not to trust this document.'

estuserDOC.odt - OpenOffice.org Writer <u>File Edit View Insert Format Table Tools Window Help</u>	
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Image 1 / 1       Image 2 / 1       Image 2 / 1       Image 3 / 1	
Email signing (Ubuntu)	

We will show email signing with Evolution mail client, shipped as default mail client with Ubuntu 10.04.

Den Evolution mail Client from the top-right con	mer of your Ubuntu Desktop.
newtest_tanim.odt	Set Up Chat     Mail     Compose New Message     Contacts     testuser     (0)     Set Up Broadcast Account
tanim.p12 testuserMailCSR.p12 screenshots test test	
BCC_test.p12 testingCCA_doc.odt	
confidential doc.odt testuserDOC.odt	
t first we need to import the pkcs12 files for sig	ning mail with digital signature. Now

go to Edit->preferences->certificates->Your Certificates. Click on the Import button.

## ----------\_\_\_\_\_ -----\_\_\_\_\_

	Evolution Preference	s
		Your Certificates Contact Certificates Authorities
		You have certificates from these organizations that identify you:
	Mail Accounts	Certificate Name View
		BCC Backup
	Contacts	Backup All
		Import
	Mail Preferences	Delete
	Composer Preferences	
	Network Preferences	
	12	
	Calendar and Tasks	
	Certificates	
1	Help	

Choose your pkcs12 file from Ubuntu file system. It will ask for 2 passwords – 1 for evolution mail client security purpose and 1 for import/export purpose.

😣 Ent	ter password
S	Enter the password for `NSS User Private Key and Certificate Services'
	Cancel OK



Upon entering valid passwords, it will successfully import the certificate into evolution system.



Clicking on view will show the certificate details.

This certificate has be SSL Client Certificate SSL Server Certificate Email Signer Certificate Email Recipient Certificate	en verified for the following uses:
Issued To	
Common Name (CN) Organization (O) Organizational Unit (OU) Serial Number	testuser@UbuntuOS.com BCC CCA 08
Issued By	
Common Name (CN) Organization (O) Organizational Unit (OU)	rootCA BCC CCA
Validity	
Issued On Expires On	14/08/2010 14/08/2011
Fingerprints	
SHA1 Fingerprint MD5 Fingerprint	E3:5B:CA:68:02:FA:A2:38:45:D0:2A:23:47:0A:2A:3A:91:A7:E1:E 40:20:65:67:2E:13:0E:AE:77:C6:21:F6:CD:F7:E1:09

Now users need to import CA's certificate also into the evolution system. go to Edit->preferences->certificates->Authorities. It will show available root CA certificates.

**Evolution Preferences** Your Certificates Contact Certificates Authorities You have certificates on file that identify these certificate authorities: Mail Accounts Certificate Name + ABA.ECOM, INC. + AC Camerfirma SA CIF A82743287 Contacts + AddTrust AB Import + America Online Inc. + AOL Time Warner Inc. + AS Sertifitseerimiskeskus Mail Preferences Autoridad de Certificacion Firmaprofesional CIF A62634068 + Baltimore + BCC Composer Preferences + beTRUSTed + Buypass AS-983163327 لوبا + (c) 2005 TÜRKTRUST Bilgi İletişim ve Bilişim Güvenliği Hizmet Network Preferences + Certplus + certSIGN 12 + Chunghwa Telecom Co., Ltd. + CNNIC Calendar and Tasks + Comodo CA Limited + COMODO CA Limited + ComSign Certificates + Cybertrust, Inc + Deutscher Sparkassen Verlag GmbH Help

Click on the Import button. Choose CA's certificate DER/PEM file from Ubuntu file system. It will show a message for trusting CA. Check 'Trust this CA to identify web sites' and 'Trust This CA to identify email users'.

😣 🛇 📀 Certificate Authority Trust	
Certificate 'rootCA' is a CA certificate.	
Edit trust settings:	z
Trust this CA to identify web sites.	
Trust this CA to identify email users.	
Trust this CA to identify software developers.	
Before trusting this CA for any purpose, you should examine its certificate and its policy and procedures (if available).	:
View Certificate Cancel OK	

Click Ok and it will successfully import the CA certificate into evolution system. Clicking on view will show the certificate details.



his certificate has be	en verified for the following uses:		
SL Client Certificate	-		
SL Server Certificate		-	
mail Recipient Certificate	e N		
	M2.	2	
sued To		-	
Common Name (CN) Organization (O)	BCC		
Organizational Unit (OU)	CCA	-	
sued By	01		
common Name (CN)	rootCA		
Organization (O)	BCC	-	
alidity		_	
ssued On	26/07/2010		
xpires On ngerprints	23/07/2020	-	
HA1 Fingerprint	AC:0B:76:54:B2:A6:5A:EC:AE:3F:FC:2D:75:A0:BD:99:5B:4C:86:8D		
1D5 Fingerprint	A8:9A:BD:FA:17:D6:CF:D0:26:FE:69:C8:BA:A2:8E:DE		
		-	
	Close		
another step remains	s: go to Edit->preferences->Mail Accounts.		
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another step remains Evolution Preferences Contacts Contacts Mail Preferences Mail Preferences Composer Preferences Calendar and Tasks Certificates Help	s: go to Edit->preferences->Mail Accounts.		

Account Editor	
Identity Receiving Email Receiving Options Sending Email Defaults Security IMAP Header	s
Pretty Good Privacy (PGP/GPG)	
PGP/GPG Key ID:	
Always sign outgoing messages when using this account	
<ul> <li>Do not sign meeting requests (for Outlook compatibility)</li> </ul>	
<ul> <li>Always encrypt to myself when sending encrypted messages</li> </ul>	
Always trust keys in my keyring when encrypting	
Secure MIME (S/MIME)	
Digitally sign outgoing messages (by default)	
Signing certificate:	
Encrypt outgoing messages (by default)	
Also encrypt to sell when sending encrypted messages	
Encryption certificate:	
Cancel OK	
Now click on 'Select' button and choose your certificate for mail signing	
tow, check on Select button and choose your certificate for man signing.	
😣 Select certificate	
Certificate testuserMailCSB v	
Certificate details	
Issued to:	
Subject: CN=testuser@UbuntuOS.com,E=testuser@UbuntuOS.com,CN=testuser@UbuntuOS.com,OU=CCA,O=BCC,L=dhaka,ST=dhaka,C=BD Issued by:	
Subject: CN=rootCA,E=rootCA@bcc.org,CN=rootCA,OU=CCA,O=BCC,L=Dhaka,ST=Dhaka,C=BD	
\$	
Cancel	7
	ノ
res, your mail account is now enabled to send digitally signed mails!!!	
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😣 Account Editor				
Identity Receiving Email	Receiving Options Sending Email	Defaults	Security	MAP Headers
Pretty Good Privacy	(PGP/GPG)			
PGP/GPG Key ID:				
<ul> <li>Always sign outgoi</li> </ul>	ing messages when using this account			
Do not sign meetir	ng requests (for Outlook compatibility)			
Always encrypt to	myself when sending encrypted mess	ages		
Always trust keys	in my keyring when encrypting			
Secure MIME (S/MIM	E)	N		
Digitally sign outgo	oing messages (by default)	13		
Signing certificate:	testuserMailCSR		Select	👌 Clear
Encrypt outgoing n	nessages (by default)			
	when sending encrypted messages		(Ball)	
Encryption certificate:			Select	Clear
			Cancel	ОК
				$\bigcirc$
Now compose a new m	ail. Click on Security and again cl	lick on	'S/MIME S	ign'. The
option will be checked	as shown below.			

😣 🛇 🛇 Approval for	furnituro nurchaca		
	Turniture purchase		
<u>F</u> ile <u>E</u> dit <u>V</u> iew Insert Fo		2 	
Send 🛃 🦣	PGP Sign	94	
From: testuser <testus< th=""><th>ser@U ✓ S/MIME Sign</th><th>Signature: None</th><th>V</th></testus<>	ser@U ✓ S/MIME Sign	Signature: None	V
To: tanim@UbuntuO	S/MIME Encrypt		
Cc:			
Subject: Approval for furr	niture purchase		
Diain Taxt T			
Plain lext V Normal			
Dear Shahed,			
In reply to your requ purchase to decorate	<pre>lest, I, hereby, approv office.</pre>	ing 20,000 <u>BDT</u> for furnitur	e
Regards			
Testuser			
+ Show Attachment Bar		Add Attachment	
Now cond the mail and it	will cond the mail by digit	tally signing!!!	
Now send the mail and it	will send the mail by digh		

⊗ ⊙ ◎ Sent (4 sent) - I	Evolution	Help				
New View Polder Mess	ceive 🏻 🕁	Reply 🙀 Reply	y to All 🛛 🙀 Forwar	d 😐 🚫 🖧 🐼 🛛	3 🦕	•
Sent 4 sent	Show: All	Messages	\$	Search: Q Sub	bject or Re	cipients cc 🔏 in Current F
On This Computer		То		Subject	ſ	Date
Inhov (1)	Â	tanim@Ubuntu	OS.com	Approval for cur purchase		08/18/2010 12:34
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	A	tanim <tanim@< td=""><td></td><td>Re: Approval for furniture p</td><td>urchaco</td><td>09/19/2010 12:30</td></tanim@<>		Re: Approval for furniture p	urchaco	09/19/2010 12:30
i junk			yobuntuOS.com>	Re: Approval for furniture p	Juichase	00/10/2010 10:24
Outbox		tanım@Ubuntu	US.com	Approval for furniture purch	nase	loday 12:37
🖈 Sent				10.5		
📓 Templates	From	: testuser <testu< td=""><td>ser@UbuntuOS.com</td><td>&gt;</td><td></td><td></td></testu<>	ser@UbuntuOS.com	>		
🗍 Trash	To	tanim@Ubuntu	DS.com	-50		
- testuser	Subject	: Approval for fur	niture purchase			
📥 Inbox	Date	: 09/28/2010 12:3	37:44 PM			
🚳 Junk						
🗍 Trash	Dear ta	anim,				
Search Folders	In repl	ly to your reau	uest, I, herebv.	approving 20,000 BDT fo	or furnit	ture
🔯 Unmatched	purchas	se to decorate	office.			
	Pegarde	_				
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Mail						
Contacts						
	Val	id signature				
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		N				
Tasks		2				
Memos						
At the receiving e	nd. user	r will confi	gure his/her	· Evolution mail c	client a	as described
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above. when he/s	lie lecel	ives the ma	111,			
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Inbox 16 total	Show: All	Messages	4	Search: Q Sub	bject or Ac	dresses cc 🔏 in Current F
- On This Computer		From		Subject	I	Date
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🖄 Sent		testuser <testu< td=""><td>iser@UbuntuOS.co.</td><td>. Re: sending cert for you</td><td></td><td>08/14/2010 12:04</td></testu<>	iser@UbuntuOS.co.	. Re: sending cert for you		08/14/2010 12:04
Templates	From	: testuser < <u>testu</u>	ser@UbuntuOS.com	2>		
- tanim	To	: tanim@Ubuntu(	DS.com			
🚢 Inbox	Date	: 09/28/2010 12:3	37:44 PM			
🚞 Drafts						
🕼 Junk	Dear ta	anim,				
Sent 🛌	In rep	ly to your requ	uest, I, hereby,	approving 20,000 BDT fo	or furnit	ture
Trash	purchas	se to decorate	office.			
Trash T	Regards	s				
Mail 🖂	restuse					
Contacts	🕑 Val	lid signature				
28 Calendars						
Tasks						
Momos						

it will also indicate if the signature is valid or some unscrupulous user have tampered with it. If it's being changed by some intermediate hacker/cracker, it will show a red colored warning -

🙀 New 🔻 🛛 🙀 Send / R	eceive 🙀 R	eply 🙀 Reply to	All 🔤 Forward	😫 🔕 🕼	🥪 😣 🍬	<b></b>	
Inbox 16 tota	Show: All Me	essages	A V	Search:	<b>Q</b> Subject or Add	resses cc 🥖 in	Current Fo
On This Computer		From		Subject	[	late	
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