With the recent increase in sensitive information being compromised worldwide, Murray State University is taking the initiative to help you secure your data. One way to do this via email is through the use of PGP (Pretty Good Privacy). PGP is a computer program that provides cryptographic privacy and authentication. It is used for signing, encrypting, and decrypting emails to increase the security of the email communication. For our particular setup, we are going to use a program called Gpg4win which is a windows installation package to support PGP to create and maintain the public/private keys.

Installing and Creating Public/Private Keys with Gpg4win

Step 1 – Downloading the Gpg4win

Download the latest version of Gpg4win from <u>http://www.gpg4win.org/download.html</u>.

<u>Step 2 – Installing Gpg4win</u>

Double click on the gpg4win-x.x.x.exe file and then follow the instructions provided by the program. Please accept all of the default values when installing.

Step 3 – Starting Gpg4win

Once the installation is complete you can click on Start \rightarrow All Programs \rightarrow Gpg4win \rightarrow GPA to open up the program.

Step 4 – Generating a key

This will open the GNU Privacy Assistance - Keyring Editor. As soon as you open it, the program will ask you if you want to "Generate a key now". Go ahead and click on that button and then follow the directions to create your public/private keys. When you get to the screen to generate a passphrase, it is recommended that you use a complex passphrase that is 12 characters or more. Gpg4win will warn you if your password is less than 12 characters, however you can still accept a weaker passphrase but for the most security, you need a complex/long passphrase.

After creating the key, you will also be asked if you would like to back up the key now. It is recommended that you do this; however you need to store this backup in a secure place such as putting the backup on a CD and placing it in a safe or using a program such as TrueCrypt and putting the backup in another encrypted file.

<u>Step 5 – Verifying your key</u>

Once your keys have been created it takes you back to the main page of the program. You will now see your key in the Keyring Editor.

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Step 6 – Sharing your public key

To be able to use PGP, you will need to share your public key with others. To do this you simply right click on your key and click Copy.

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The key has bot The key can be Jser Name: Test User <test. Key ID: 77BAD8F4 Fingerprint: 9809 4ECD 3853 Expires at: never expires twner Trust: Ultimate (ey Validity: Fully Valid Key Type: DSA 1024 bits</test. 	h a private and a public part used for certification, signing and encryption. user@murraystate.edu> 3 599E 4106 20FB 16B1 383E 77BA D8F4	

You then need to paste this into an email or document that you will give to others that want to encrypt email to you. In the screen shot below I have showed you an example of what the key will look like.

*Note, It is very important that the key is in exactly the format below, or it will not work.

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Eile Edit Format View Help	
BEGIN PGP PUBLIC KEY BLOCK /ersion: GnuPG v1.4.7 (Mingw32)	A
nQGiBEluGB0RBADHRSOzDEFwb2lGaK3cxccl3zSMhQocVEAaKwnks+hSv5shte /KHercxkgv9+v9G1gfaGt8mHHLe1Sh0b0wm6xJZgk0o4xD66SQyYL1MfbdPt1L vai/t5jwUQMUVUnADVNtz0bMR4aHeoZqFF3qkTZAMH9v6DRKpmFowlAtDwCgyJ SkGixR49qV+lEoB1vSvHzcD/2ik8dpxU2Q51D98MafEk+XQkxczr2c5108pmK vk1jw4DARcni0o+gFo+h7wxl4nZFXLwB9bLvNqJtoPyNHbG7UMZ+Bjx3kLCF/g J+yHwwq9R40SDOSQJ7Rq0qSCp8vA+bvPeeIexelW6brPbUxwI0hv+tEcRy05bf J=3m5A/9xKPRiNvBrxD25mkvnADLn0iPjgmxn+hxJtxjdK5OMwRf1Mdwrp+9n+ =5jRK0tPj8c3doYBj1FTcu2pLLzt4kxxCFdhkE5Fs7fKxxfI2EvBi+w9JDd1Hv t1XQRvkLxN73hoa68F5qZKX4sI/OmqLhT0v2+2yPCIKbcVes+7G1VGv2dCBvc2 LxOZxN0Lnv2ZXJAbaVyCmF5C3RhdGUuZwR1PohBBMRAgAgBQJJbhgdAhsjBg LACDAgQVAggDBBYCAwECHgECF4AACgkQFFE4Pne62PSwkwcTwJEq18Jhi4T25+ JLicZ77wLXMAniF4+cMW6USy3ZXJ1h2qA0OGa1uQENBE1UGB0QBACPa5Y21D gcejt10kFjS09tUBECPZDeqPLsVpHi7v06qGmb4z+wkJmxDk01mC2vxYFSc21 hirptLeOnRL0ZZI8DJN8HwbrIPa1guPocOa1cqq7D9GUuA1SYSVVq803yMbu SGG/60kB0EU5RUp/IhTe8y96U5TGG1P85WADBwP7BQ1bv71E1weIa5610L1ffj 5mzS2YnLSISbr1Y2QUyVuLU9aVPANtAw3d1cfdvAZBvvbDzpGAhnzZvnbDdmww 35CM5cAbzrBH1IUEGOCEMbE15z44PuIfYYEMr3jtRyULJEU3YJ2LxnXuT0ZXG vd28kA9UqZhMsbtyJ+qISQQYEQIACQUCSW4YHQIbDAAKCRAwsTg+d7rY9ItLAK j45kSuIJtnidFcgI8TSNAPutDACfUkSiZ4OaIeshPusT0PfS3wwCLqE= =+80	OR eA kms qpn uF2 VyJ S11 FVy S31 S2 IG ELJ DD
END PGP PUBLIC KEY BLOCK	
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Step 7 – Importing keys from other people

Once someone has shared a public key with you, you need to highlight the entire key (make sure you start highlighting with the line that says BEGIN PGP and go all the way to the line with END PGP) and copy it. Then open the GNU Privacy Assistant - Keyring Editor and click on Edit and Paste. You will then see a new key pop up in your Keyring Editor like shown below.

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Eingerprint: A113 8D2D 2144 9BDC D1E5. EB5D E103 E50E EB54 28D2	
Expires at: never expires	
Jwner Trust: Unknown	
Cey Validity: Unknown	
Key Type: USA TU24 bits	
Created at: 1/14/2009	

Implementing PGP with Microsoft Outlook

To be able to send PGP encrypted emails through outlook is very easy. All of the software is already installed when Gpg4win was installed. All you have to do now is open up Outlook like normal, and click on "New" to create a new email. Once you do this a new window will open up that looks like the following screenshot.

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Send	To Cc Bc Subje	•																

As you can tell, I have highlighted the "Add-Ins" section above. This is the section you will need to click on to access Gpg4win. Once you click on that, the following screen will appear.

0.) B 19/10				Untitled	- Message (HTML)	
	Message	Insert	Options	Format Text	Add-Ins		0
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	Ā						
Toolk	ar Commands						
	Encrypt messag	e with Gnu	G				
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L	Subject:						
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From here, you need to click on the red document on the left hand side of the screen. If you hover over it with your mouse, it will say "Encrypt message with GnuPG". Once you click on this icon, all you have left to do is type the message and press send.

After you press send, the following screen will appear asking you who the "Sender" and "recipients" are. For "Sender" you need to select yourself, and then click on "Add Recipient..." at the bottom and choose whoever you are going to send the email to. For this example I am using the same key on both the sender and receiver, this will only be the case if you are sending yourself an encrypted email.

ecipients	
Sender	The SANS Institute <sans@sans.org> (A1694E46)</sans@sans.org>
abuse@murraystate.edu	The SANS Institute <sans@sans.org> (A1694E46)</sans@sans.org>
dd Recipient) <u>R</u> emove Sele) <u>O</u> penPGP ⊚ <u>S</u> /MIME	ected
Add Recipient) Remove Sele OpenPGP O S/MIME Varning: None of the selected ecrypt the encrypted data again	certificates seems to be your own certificate. You will not be able to 1.

Once you have selected all the parties involved, click the "Next" button and then the following screen will pop up saying that your email has been successfully encrypted.

Encrypt Mail Message	8
Results	
All operations completed.	
	100
Encryption succeeded.	
7 Veep open after execution completed	
Teeb open area operation completed	
	Back OK Cancel

Implementing PGP with Firefox

Step 1 – Downloading FireGPG

Download the FireGPG add-on which can be found at <u>http://getfiregpg.org/install.html</u>. This page also has very good instructions over a lot of the functionality of FireGPG.

Step 2 – Configuring FireGPG

Once this gets done installing, you will need to restart Firefox. Once Firefox has restarted, a box will probably pop up asking you to help configure GPG.

If the box does not come up then everything installed correctly. If the box does come up, then you will probably need to tell Firefox the location of your GPG program. To do this, click on the "Browse" button and go to "C:\Program Files\GNU\GnuPG\gpg2.exe" if you are using a 32 bit operating system or "C:\Program Files (x86)\GNU\GnuPG\gpg2.exe" if you are using a 64 bit operating system. A screenshot of this can be found below.

FireGPG Assistant - GnuPG	×
GnuPG	
FireGPG uses GnuPG to handle any pgp operation. This means GnuPG must be installed for FireGPG to work.	
GnuPG doesn't work, there is a problem. Please fix this and click on next.	
Did you install GnuPG?	
You can download GnuPG here: (But any GnuPG will work)	
Windows users: Click here to download gpg4win	
Linux users: Please use the package shipped with your distribution, or click here for sources.	
MacOs users: I don't know how, but there is a way. Google is your friend.1	
Is you GnuPG installed in an uncommon location?	
Please set the path to GnuPG here:	
C:\Program Files\GNU\Gi Browse	
Is FireFTP installed?	
FireGPG and FireFTP conflict due to the old IPC library of FireFTP.	
If FireGPG's fix doesn't work, you have to uninstall one of them to get the other working.	
Are you using a strange platform?	
FireGPG works only on Windows, MacOs and Linux x86 and x86_64 plateforms.	
You need to recompile the IPC library if that's the case.	
	1000
Stop	Next

During the FireGPG Assistant program, it may also ask you other questions about what options you would like set. Unless you are familiar with these options and would like to change them for personal reasons, accept all of the default values.

Step 3 – Encrypting email using FireGPG

To encrypt an email using the FireGPG add-on, you simply open your Webmail program. In the example below we are using Murray State University Webmail. Once you compose your email, you highlight the text that needs to be encrypted, and then click on Tools \rightarrow FireGPG \rightarrow Encrypt.

🥮 Webmail - Mozilla F	Firefox					- 8 ×
Eile Edit View History	y <u>B</u> ookmarks 1	ools <u>H</u> elp				1.1 1.1
Contra x		Web Search	Ctrl+K	x	√7 • C. Google	Q
		<u>D</u> ownloads	Ctrl+J			
	5 -	Add-ons		-		@murravstate edu
MUTTAY	Che	Java Console Error <u>C</u> onsole	Ctrl+Shift+J	Settings Logoff		
Used Space	Compos	Clear Private Dat	a Ctrl+Shift+Del			
My Folders	Send S	Options				
A.	То:	FireGPG		Clear sign		
- Winbox	Cci			Sign		
Drafts	Bcc:			Verify		
Outbox	Subject					
Sent Items	oubjeen.	[] his	s is a l'est	G Symmetric encryption	1	
10	Attachme	hts:		Sign and encrypt		
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				/P Export		
				📝 Text editor		
				🥰 Key manager		
				Options		
						144
						9
🦉 start 🚱 🖼 🐛	🤎 Webma	nı - Mozilla				🙄 🤍 😴 1:46 PM

Once you hit encrypt, it will then bring up a FireGPG – Public Key box, like shown below. You then select the public key of the person you want to send the email to. In our example, we are sending an email to <u>import.test@murraystate.edu</u>. If you wanted to send this message to multiple recipients, you can hold "Ctrl" on your keyboard and select as many names as you need to. This will allow the message to be encrypted to multiple recipients at the same time. You may also want to select your own key on each message you send as well so you are always able to unencrypt the message and read it.

83E77BAD8F4 20(50EEB5428D2 20(09-01-14 19-01-14
50EEB5428D2 20(09-01-14

After you select the public key, and click ok, you will then see your original message has become encrypted and is now ready to be sent.

Implementing PGP with Windows **2009**

G X	🕻 🏠 📔 https://webmail.murraystate.edu/Inbox.aspx	☆ • Google
ray	Check Mail Contacts Folders Settings Logoff	••••••••••••••••••••••••••••••••••••••
pace	Compose	
rs	Send Save to Draft Attachments Close	
	To:test.account@murraystate.edu	
ntine	Ce:	
×	Subject:	
tems	Attachments:	
	Normal priority 💌 Switch to Rich Text SpellCheck English 💌	
	3CK30C/HSHWSIRFEOHINQAXUNKSCUKAYI/3JAKBQXUQ4J/KHKK/NN/UCFTSVU AIIEf8gAOVOfFUqneySUicIJOF6REIXzfy6UdHiIqWawBop1+r9jbKr1XR505fe6 6hrqildSSttMhy]EyNSLn4qC/dKUncaTYWNHMxwK72D7PU6ZmeoWL/10mwMkzAR cGAp1sAPtOMdDwLCMTmF20OnLgS3ufIqAQPL46r9je6N01QBEOKbE9cIh4CtxaGu 85bHMEnj19pYtZn+/8VdiWj5teMjPm8PzLRDJEGQmI3VSiU9KSgLe12Ye7msEV1; NJn0cOPuk4OL1EtFs3LU01TLohadh90= =6kxq END PGP MESSAGE	E 88 M 22

Some email systems such as Gmail has built in support for FireGPG. The screenshot below shows an example of how this will look. To encrypt email using these shortcut keys, all you have to do is type the message, click encrypt, then press send. Once Gmail starts to send the email, it will bring up a box asking which key you want to encrypt the message with. Once you choose the key, the message will be encrypted and sent.

Send Save Now Discard	e
То:	
Add Cc Add Bcc	
Subject:	
FireGPG: Sign Encrypt Inline Attachments	Encrypt a file and attach With a signature
B / 빈 fr nT·Ta Ty 😨 🥶 註 표 표 표 표 🖬 🖺 🖉 🖉 🖉	Check Spelling •