

Digital Signatures for Newbies

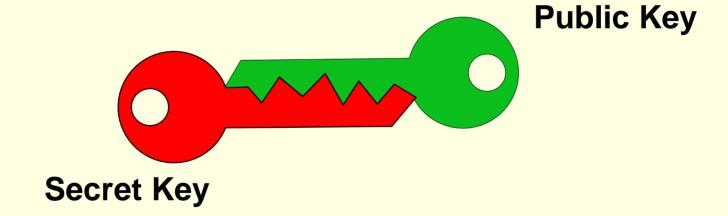
n Digital Signatures are a clever approach of using complex mathematics in real life work

n Let's see how it works...



Setup Step 1 : Genererate your own key

n First you create a Key pair containing a Public Key and a Secret Key.

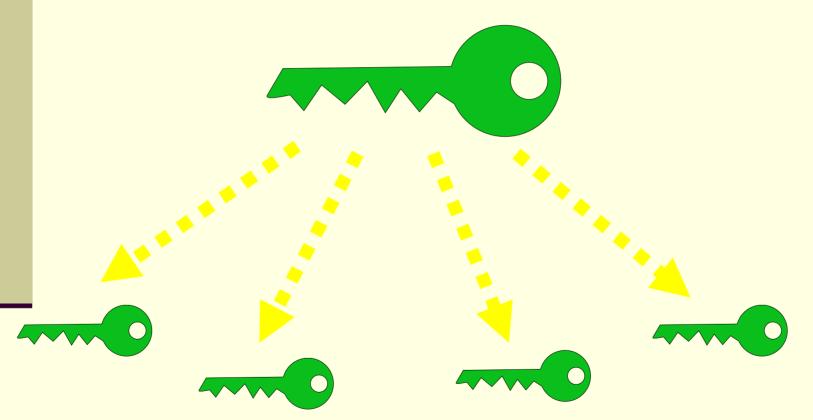


n The access to your Secret Key is protected by a passphrase



Setup Step 2 : Distribute your Public Key

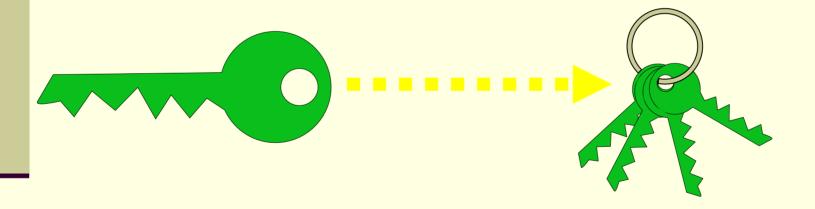
n Distribute your Public Key to other users

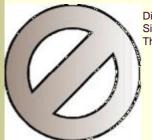




Maintenance: Store received keys

n The users add received Public Keys to their Public Key Ring





Maintenance: Verify received Keys

n The other users verify your Public Key with your Key Certificate

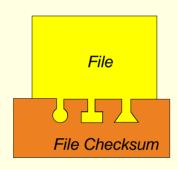


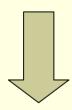
n If it matches, they sign your key as valid



Creating a Digital Signature

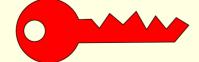
n To sign a file, you create a Signature out of your Secret Key and the file checksum











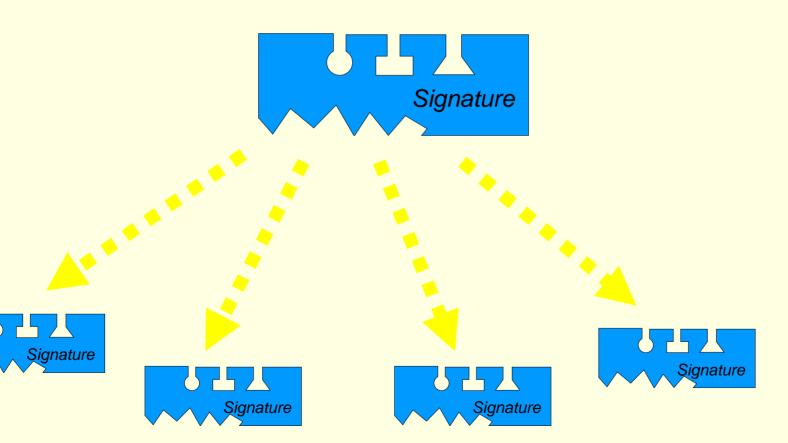






Distributing a Digital Signature

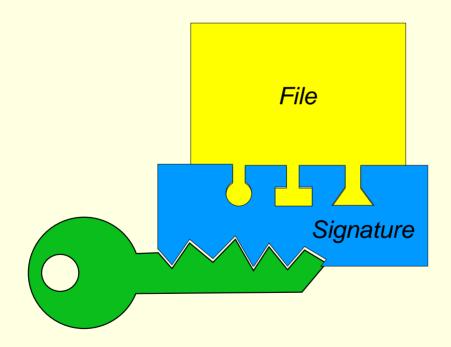
n Distribute the Signature to whoever needs it





Verifying a Digital Signature

n The other users validate the Signature by compare it to the file checksum of their local file and your Public Key, stored in their Public Keyring



n Only if both matches, the Signature is valid



TheSign – the Tool to do all this

n To perform all these tasks, TheSign is been made to make it simple

