

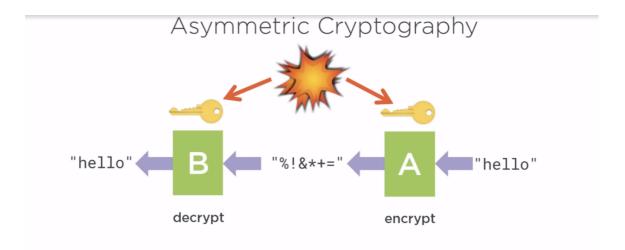
Shell Scripting - Module 8

SSH What is SSH?

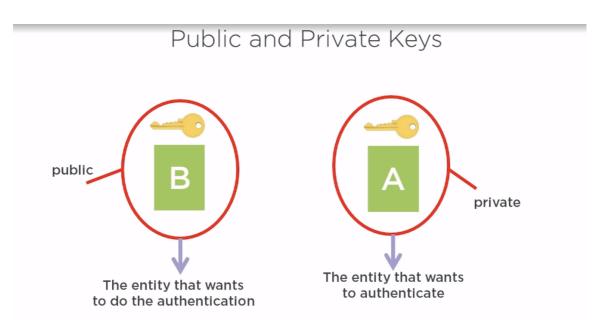
SSH

What is SSH?

- SSH used for secure remote command line access.
- Enables cryptographic handshake.
- Authenticates server securely and exchanges encryption key.

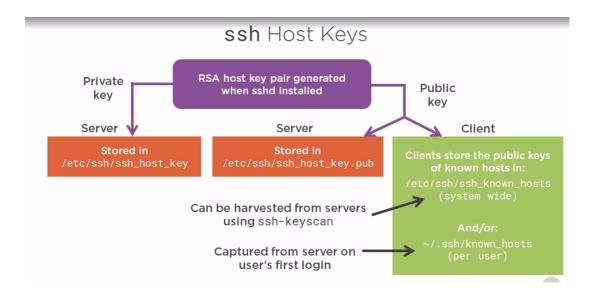


• Public key and Private key plays vital role in encryption and decryption.



When you sent "Hello" to server it will be encrypted by Key A and for Decryption it will not use the same key (Key B) Refer Image.

SSH host keys



Why using SSH is secure?

- Well when you connect to a server using ssh there is a fancy cryptographic handshake which authenticates the server.
- Then it securely exchange the encryption key which is used to encrypt all the traffic between the client and server.
- SSH uses Asymmetric Cryptography (which means key used for encryption and Decryption is different)
- We spoke about 2 keys in that one would be acting as public key and other one would be acting as private key.
- Private key is ment to be kept secret
- Public key can be shared among others.
- Also there is a fancy algorithm called "diffie hellman" that makes these 2 keys to share the information secretly.