



WHAT IS

# SSH

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Art Credit : Sandmarie



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You wrote a meaningful letter for  
your friend

Now you want to send it

You are my ; I can't function  
without you



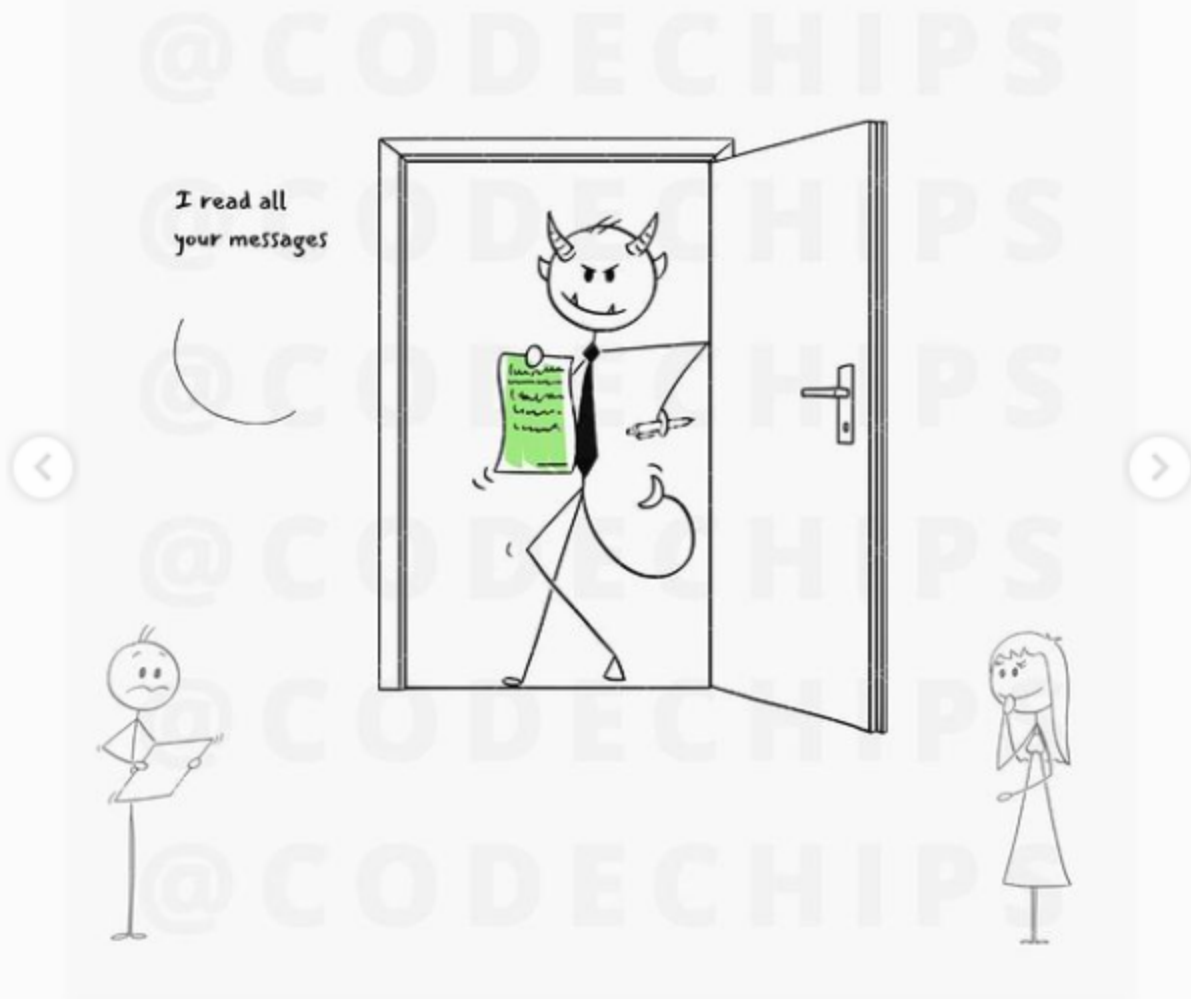
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But what if some one intercept and read your message



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That is when SSH comes into play

## Secure Shell or Secure Socket Shell



SSH is a network protocol that helps us securely accessing and communicating with remote machines ( mostly remote servers ) over an unsecured network

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## How it works ?

You drop your letter in a box and put a **lock** on it for which only you have the **key** and send it to your friend



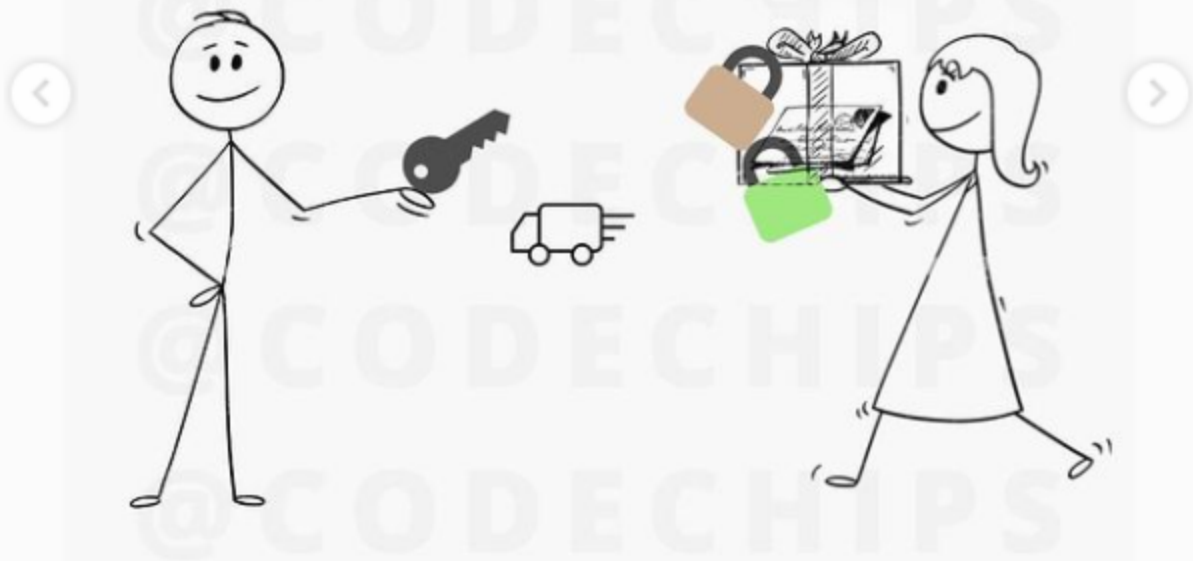
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Your Friend doesn't have the key so she puts another lock for which she has the key and sends it back to you



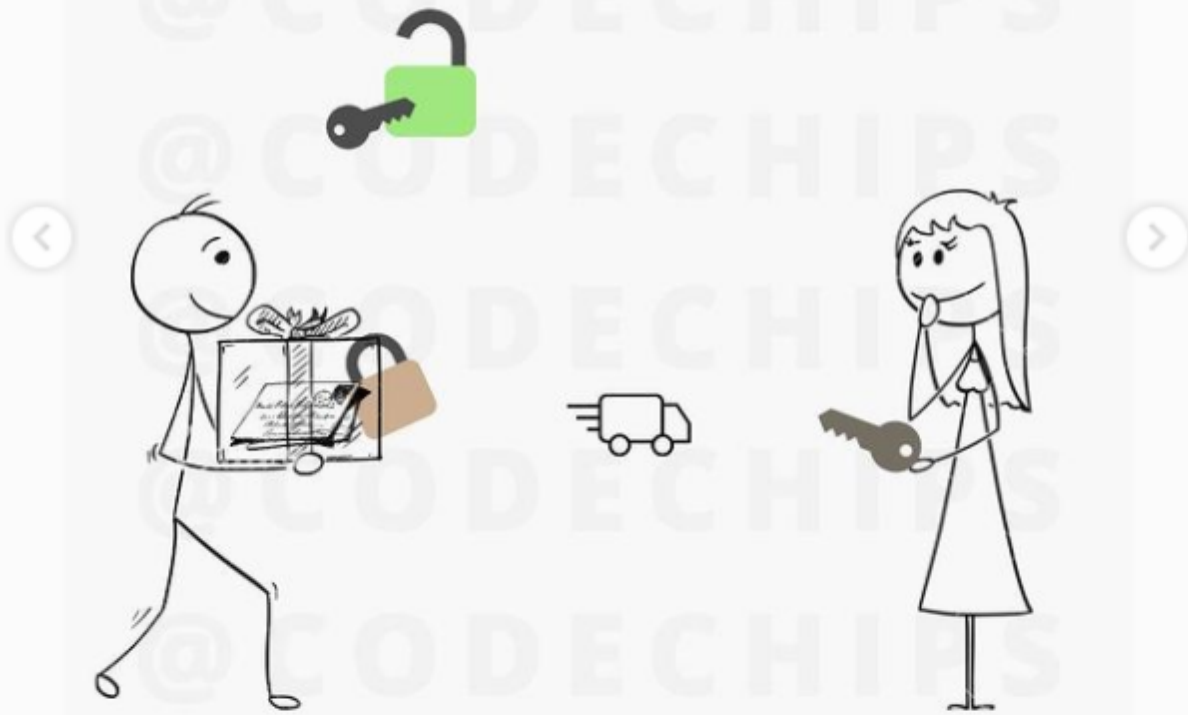
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You use your **key** to open your lock and send the same box back to your friend with her lock locked in



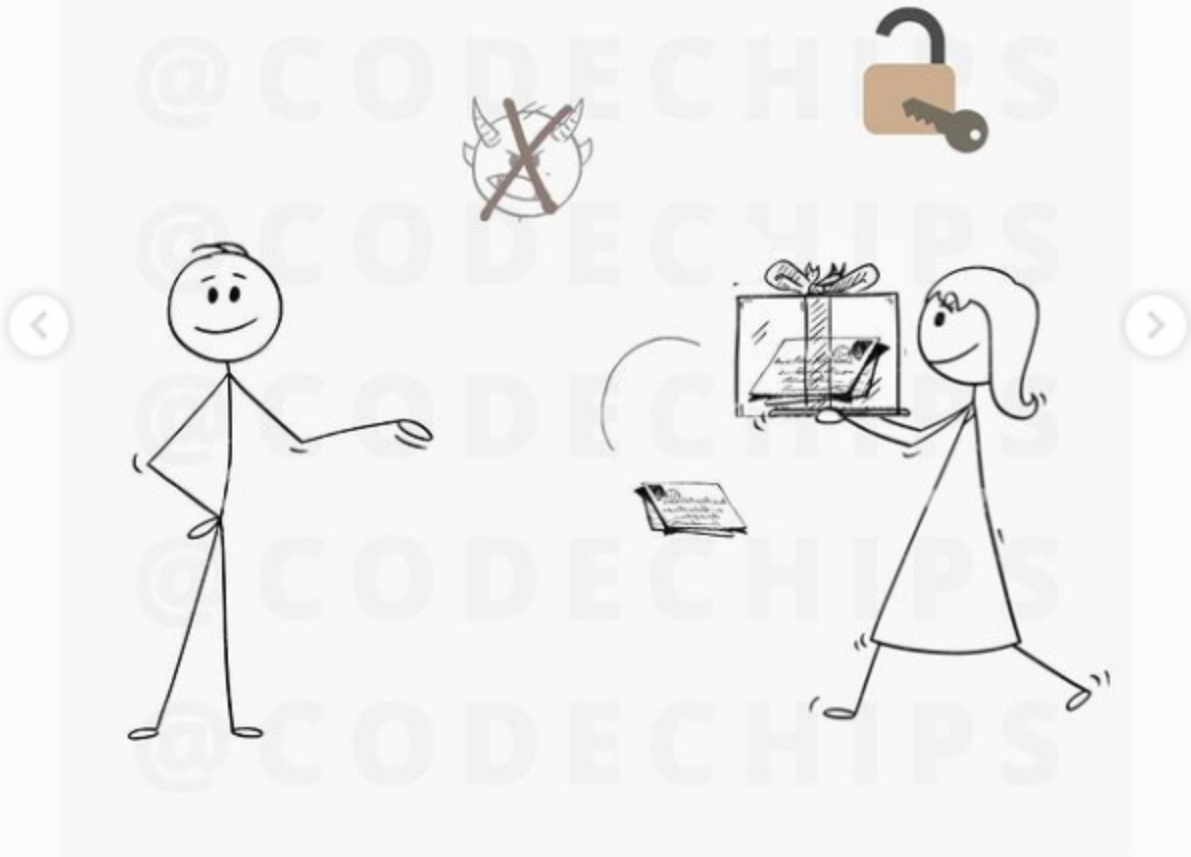
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Finally she uses her key to unlock it and read the message **securely** without any **intercept**



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SSH uses a **public-key cryptography** technique and uses strong symmetric encryption & hashing algorithms for the exchange of messages between client and server to ensure privacy and data integrity.

used for

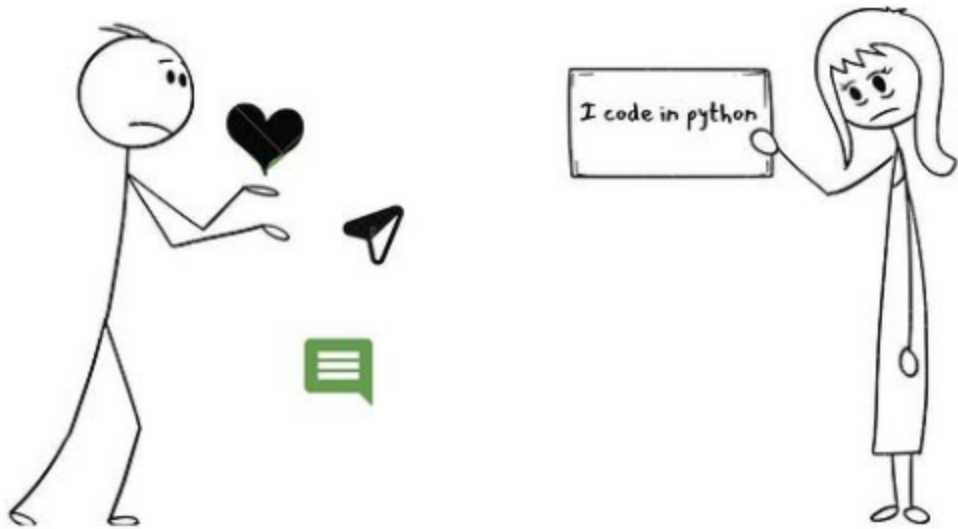
- Secure File Transfer
- Remote device management
- Tunneling
- Forwarding TCP ports



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