

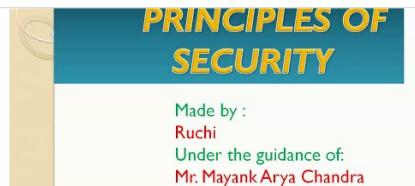
Networks Prep Link's

⌚ Date Created	@December 16, 2022 6:23 PM
⌚ Status	Doing

Principles Of Data Security:

Principle of Security
Three Security Goals Are Confidentiality, Integrity, and Availability.

G <https://youtu.be/MxTyX897BZk>



PRINCIPLES OF SECURITY
Made by :
Ruchi
Under the guidance of:
Mr. Mayank Arya Chandra

Basic Cryptography

Private Key Encryption (Symmetric Key Encryption)
In private key encryption, data is encrypted using a single same key that only the sender and the receiver know. That is why private key encryption is also called symmetric key encryption because the same key is used during both encryption and decryption of the transmitted data.

G <https://www.youtube.com/watch?v=vk3py9M2IfE&list=PLSN Nzog5eyduN6o4e6AKFHe kbH5-37BdV>



Symmetry Key:

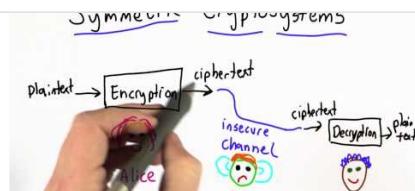
Lec-81: Symmetric Key Cryptography in Network Security with examples
Symmetric key cryptography is any cryptographic algorithm that is based on a shared key that is used to encrypt or decrypt text/ciphertext, in contrast to asymmetric key cryptography, where the encryption and decryption keys are different.

G <https://youtu.be/6AmmQiOWoXM>



Symmetric Cryptosystems - Applied Cryptography
This video is part of an online course, Applied Cryptography. Check out the course here:
<https://www.udacity.com/course/cs387>.

G <https://youtu.be/dk40W6ULb0I>



Advanced Encryption Standard(AES)

Advanced Encryption Standard (AES) Algorithm Part-1 Explained in Hindi
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G <https://youtu.be/o-MZgVJP-rl>



Advanced Encryption Standard (AES) Algorithm Part-2 Explained in Hindi

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G <https://youtu.be/FRWkzx1Fcw>



Advanced Encryption Standard (AES) Algorithm Part-3 Explained in Hindi

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G https://youtu.be/4Kfasc_wN-U



Advanced Encryption Standard (AES) Algorithm Part-4 Explained in Hindi

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G https://youtu.be/dkmR5k_UJ-0



Advanced Encryption Standard (AES) - GeeksforGeeks

Advanced Encryption Standard (AES) is a specification for the encryption of electronic data established by the U.S National Institute of Standards and Technology (NIST) in 2001. AES is widely used today as it is a much stronger than DES and triple DES despite being harder to implement.

🔗 <https://www.geeksforgeeks.org/advanced-encryption-standard-aes/?ref=rp>

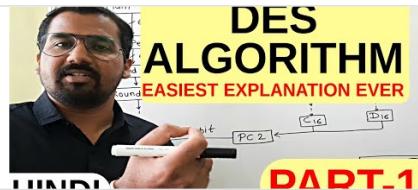


Data Encryption Standard(DES)

DES (Data Encryption Standard) Algorithm Part -1 Explained in Hindi | Network Security

Part-2 : <https://youtu.be/sL0gD1N-kfM> Myself Shridhar Mankar a Engineer | YouTuber | Educational Blogger | Educator | Podcaster. My Aim- To Make Engineering Students Life EASY. Website - <https://5minutesengineering.com> 5 Minutes Engineering English YouTube Channel -

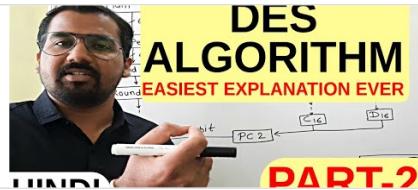
G <https://youtu.be/8B1rN1rnTiU>



DES (Data Encryption Standard) Algorithm Part-2 Explained in Hindi | Network Security

Part-3 : https://youtu.be/6Sycf0wl_q8 Myself Shridhar Mankar a Engineer | YouTuber | Educational Blogger | Educator | Podcaster. My Aim- To Make Engineering Students Life EASY. Website - <https://5minutesengineering.com> 5 Minutes Engineering English YouTube Channel -

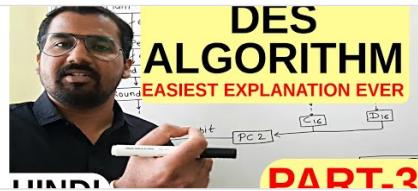
G <https://youtu.be/sL0gD1N-kfM>



DES (Data Encryption Standard) Algorithm Part-3 Explained in Hindi | Network Security

Part-4 : <https://youtu.be/khFqzQVuYRQ> Myself Shridhar Mankar a Engineer | YouTuber | Educational Blogger | Educator | Podcaster. My Aim- To Make Engineering Students Life EASY. Website - <https://5minutesengineering.com> 5 Minutes Engineering English YouTube Channel -

G https://youtu.be/6Sycf0wl_q8



Data encryption standard (DES) | Set 1 - GeeksforGeeks

Data encryption standard (DES) has been found vulnerable to very powerful attacks and therefore, the popularity of DES has been found slightly on the decline. DES is a block cipher and encrypts data in blocks of size of 64 bits each, which means 64 bits of plain text go as the input to DES, which produces

🔗 <https://www.geeksforgeeks.org/data-encryption-standard-des-set-1/>



DES in Hindi video-1 | Data Encryption Standard in Cryptography

🔗 <https://www.youtube.com/watch?v=eMHcQByhR-g>



Difference B/W AES's And DES's

Difference between AES and DES ciphers - GeeksforGeeks

A Computer Science portal for geeks. It contains well written, well thought and well explained computer science and programming articles, quizzes and practice/competitive programming/company interview Questions.

🔗 <https://www.geeksforgeeks.org/difference-between-aes-and-des-ciphers/?ref=rp>



2 DES's 3 DES's

Double DES and Triple DES - GeeksforGeeks

As we know the Data encryption standard (DES) uses 56 bit key to encrypt any plain text which can be easily be cracked by using modern technologies. To prevent this from happening double DES and triple DES were introduced which are much more secured than the original DES because it uses 112 and 168

🔗 <https://www.geeksforgeeks.org/double-des-and-triple-des/?ref=rp>

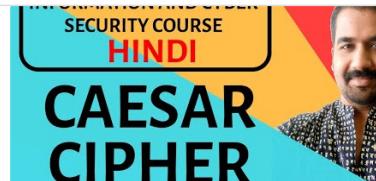


Caesar Cipher

Caesar Cipher Explained with Solved Example II Information and Cyber Security Course in Hindi

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🔗 <https://youtu.be/euVke4djgDg>



Monoalphabetic Cipher

Monoalphabetic Cipher

Network Security: Monoalphabetic Cipher Topics discussed: 1) Classical encryption techniques or Classical cryptosystems. 2) Revisited the Caesar cipher with the working principle, advantages, and disadvantages. 3) Detailed explanation on Monoalphabetic ciphers with example. 4) Explanation on the

🔗 https://youtu.be/J-utjSeUq_c



Polyalphabetic Cipher

Polyalphabetic Cipher (Vigenère Cipher)

Polyalphabetic Cipher (Vigenère Cipher)

Network Security: Polyalphabetic Cipher (Vigenère Cipher) Topics discussed: 1) Classical encryption techniques and introduction to polyalphabetic substitution cipher. 2) Comparison of mono-alphabetic substitution cipher with a polyalphabetic substitution cipher. 3) Working of Vigenere cipher with an

G <https://youtu.be/lc4BzVggNY8>

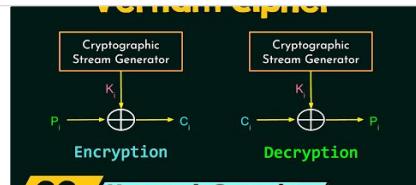


Polyalphabetic Cipher (Vernam Cipher)

Polyalphabetic Cipher (Vernam Cipher)

Network Security: Polyalphabetic Cipher (Vernam Cipher) Topics discussed: 1) Classical encryption techniques and introduction to polyalphabetic substitution cipher. 2) Working of Vernam cipher with expression and diagram. 3) Significance of having a repeating keyword and non-repeating keyword. 4)

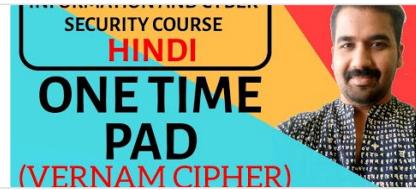
G <https://youtu.be/Qojvtgf7SQw>



One Time Pad (Vernam Cipher) Encryption Explained with Solved Example in Hindi

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G <https://youtu.be/VFMSnDZ7FEI>



Asymmetric Encryption

Asymmetric Encryption - Simply explained

How does public-key cryptography work? What is a private key and a public key? Why is asymmetric encryption different from symmetric encryption? I'll explain all of these in plain English! ❤️ Sign up for Simply Explained Newsletter: <https://newsletter.simplyexplained.com> Monthly newsletter with cool stuff I

G <https://youtu.be/AQDCe585Lnc>



Lec-83: Asymmetric key Cryptography with example | Network Security

Asymmetric cryptography, is a cryptographic system that uses pairs of keys. Each pair consists of a public key (which may be known to others) and a private key (which may not be known by anyone except the owner). It is Important for UGC NET and GATE.

G <https://youtu.be/xw19eT5thIE>



Lec-84: RSA Algorithm in Network Security with examples in Hindi rsa algorithm example in hindi

The RSA algorithm is an asymmetric cryptography algorithm; this means that it uses a public key and a private key (i.e. two different, mathematically linked keys). In this a public key is shared publicly, while a private key is secret and must not be shared with anyone.

G <https://youtu.be/VUxfDCmWM0U>



RSA Encryption Algorithm | Rivest-Shamir-Adleman | RSA Algorithm Explained | Simplilearn

In this video on the RSA Encryption Algorithm, we learn about the global standard in asymmetric encryption, designed by Rivest-Shamir-Adleman. We understand the basics of asymmetric encryption, handling of digital signatures, and how we can use RSA encryption algorithm in the verification of

G <https://youtu.be/vf1z7GIG6Qo>



SSL, TLS

SSL, TLS, HTTP, HTTPS Explained

HTTPS vs HTTP vs SSL / TLS. This video explains the difference between these protocols. It also explains how SSL works and what is an SSL certificate. #SSL #HTTPS ► Never forget your passwords again. ► <https://bit.ly/3S05wAM> (RoboForm affiliate). RoboForm is my personal password manager.

G <https://youtu.be/hExRDVZHhig>



Secure Socket Layer (SSL) II SSL Protocol Stack Explained in Hindi

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G <https://youtu.be/SXErMCgrT0o>



SSL Handshake Protocol II Information and Cyber Security Course Explained in Hindi

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G <https://youtu.be/Nh5jdNxPL7g>



SSL Record Protocol Detailed Explanation in Hindi

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G <https://youtu.be/bm8mB8zYST0>



SSL Alert Protocol II Information and Cyber Security Course Explained in Hindi

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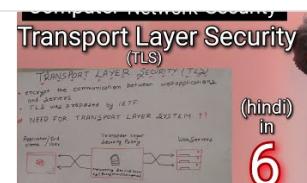
G https://youtu.be/yeiU5SRSBjU?list=PLYwpaL_SFmcArHtWmbs_vXX6soTK3WEJw



Transport Layer Security (TLS) in Hindi -TLS protocol,need and components-Computer Network Security

Is video mai Transport layer security ko ache se explain kia gaya hai , jo ki paper ke point of view se bahut important hai, aur easy way mai 6 min ke andr smjhane ki kosis ki gayi hai , agar aapko ye pasand aayr to video ko like kariega aur channel ko subscribe kariegaaa , .

G https://youtu.be/49U0ro6_i4



SSL/TLS handshake Protocol

What protocol is used between a web server and its clients to establish trust? How do they negotiate and share the secret key? During the handshake process, how public key encryption algorithm is used and how private key encryption is used? In this video, you would find all these answers.

G <https://www.youtube.com/watch?v=sEkv8ZctxFk>



How SSL certificate works?

When we are online shopping or banking, we want to make sure it is HTTPS, and a green padlock icon is in the address bar. What does HTTPS mean? What is significant about that small green padlock? To answer these two questions, we need to understand SSL certificate and how it works.

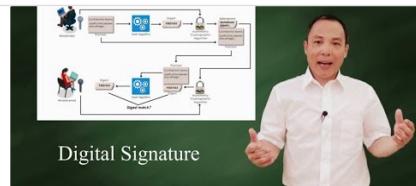
G <https://www.youtube.com/watch?v=33VYnE7Bzpk>



What is digital signature?

A digital signature is equivalent to a handwritten signature in paper, and a digital signature serves three basic purposes. Digital signature is commonly used for software distribution, financial transactions and other cases where it is important to detect forgery. Digital signatures are very popular with e-mail users.

G <https://youtu.be/TmA2QWSLSPg>



Firewall

What is Firewall A Brief Explanation in Hindi

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G <https://youtu.be/QakKuZQ4xsw>



Types Of Firewall : Packet Filtering and Application-Level Gateway (Proxy Server) Explained (Hindi)

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G <https://youtu.be/Yi2HfNySPUk>



Lec-85: What is Firewalls and How it Works | Packet Filtering firewall explained in Hindi Part-1

A Firewall is a network security device that monitors and filters incoming and outgoing network traffic based on an organization's previously established security policies. Firewalls(Network Security) 1) Monitors and controls Incoming and outgoing traffic based on predefined rules. 2) Acts like a barrier. 3)

G https://youtu.be/o_vyfo3Hw0Y



Lec-86: What is Application(Proxy) Firewall in Hindi | Network Security Part-2

Firewalls(Network Security) Monitors and Control Incoming and outgoing traffic based on predefined rules. Acts like a barrier. Host based and Network based firewall.

G <https://youtu.be/CHtTLireUCA>



Link Stating Routing

Lec-60: Link state routing in computer networks in Hindi

The Link State Routing Algorithm is an interior protocol used by every router to share information or knowledge about the rest of the routers on the network. The link state routing algorithm is distributed by which every router computes its routing table. With the knowledge of the network topology, a router can

G <https://youtu.be/kW6zV-040SY>



Distance Vector Routing

Distance Vector Routing Algorithm Part-1 Explained in Hindi | Computer Network Course

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 <https://youtu.be/hkaYlg01dDk>



Distance Vector Routing Algorithm Part-2 Explained in Hindi | Computer Network Course

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 <https://youtu.be/HeKGOijy4OLE>



Distance Vector Routing Algorithm Part-3 Explained in Hindi | Computer Network Course

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 <https://youtu.be/7S8a7AZBycM>

