gradeup

CS Engineering   GATE ⌄   GATE CSE ⌄   Other Exams ⌄   Quick Links ⌄   Video Course ⌄

Home > GATE CS & PSU > GATE CS > Computer Networks > Article

Network Security on Study Notes

274 upvotes   24 comments   Updated : Sep 1, 2019, 9:00

By : Richa Tiwari

Network security: As millions of ordinary citizens are using networks for banking, shopping, and filing their tax returns, network security is looming on the horizon as a potentially massive problem.

Network security problems can be divided roughly into four intervened areas:

1. **Secrecy:** keep information out of the hands of unauthorized users.
2. **Authentication:** deal with determining to whom you are talking to before revealing sensitive information or entering into a business deal.
3. **Non-repudiation:** deal with signatures.
4. **Integrity control:** how can you be sure that a message you received was really the one sent and not something that a malicious adversary modified in transit or concocted?

There is no one single place -- every layer has something to contribute:

Computer Networks

Network Security

Prep Smart. Score Better.

gradeup