

SUBNETTING KYA HAI?

Bade Network Ko Chote Parts Mein Todna — Part 1 | Prepared by Syed Ghous

1. Subnetting Ki Asan Definition

Aap ne bilkul sahi aur simple alfaz mein bataya bhai! **Subnetting** ek bade network ko chote chote chote networks (Sub-networks) mein divide karne ke process ko kehte hain.

Jab ek boht bada network hota hai aur us mein saare computers ek sath connect ho jayein, to network par boht zyada load badh jata hai, data bhatak jata hai aur security bhi kam hoti hai. Subnetting ki madad se hum us poore rush ko chote chote rooms ya blocks mein baant dete hain taaki network fast aur secure chale.

SUBNETTING KYA HAI?

Bade Network Ko Chote Parts Mein Todna — Part 2 | Prepared by Syed Ghous

2. Real Life Misaal (Ek Badi Building / School)

SCHOOL YA OFFICE KI BUILDING:

Sochein ek boht bada School hai jismein 500 bache parhte hain. Agar us school mein koi bhi deewar ya alag kamra (Classroom) na ho, aur saare 500 bache ek hi bade hall mein baith kar parhein, to kya hoga?

Har taraf shor (Broadcast Storm) hoga, kisi ko teacher ki awaaz samajh nahi aayegi, aur sab ek dusre se takrayenge!

Is problem ko hal karne ke liye hum kya karte hain? Hum school ke andar deewarein banate hain aur us bade hall ko chote chote **Classrooms (Subnets)** mein divide kar dete hain. Class 1 alag, Class 2 alag, aur Class 3 alag! Ab har class ka shor usi kamre tak rehta hai, baaki school bilkul sukoon aur speed se chalta hai.

Internet ya network mein bhi hum yahi karte hain. Ek poori company ke saare computers ko ek sath jodne ke bajaye, hum HR Department, IT Department aur Accounts ke liye alag alag chote networks (Subnets) bana dete hain.

SUBNETTING AUR CYBERSECURITY

Network Isolation Aur Hacking Se Bachao — Part 3 | Prepared by Syed Ghous

3. Cyber Security Mein Subnetting Kiun Zaroori Hai?

Attack Ko Ek Hi Jagah Rokna (Blast Radius Control):

Sochein agar school ke bade hall mein kisi ek bache ko zukaam (Virus) ho jaye, to woh poore school ke 500 bacho ko lag jayega. Lekin agar classrooms bane hain, to virus sirf ek hi room tak mehdood rahega, baaki school bach jayega!

Cybersecurity mein bhi aisa hi hota hai. Agar kisi hacker ne company ke kisi ek computer ko hack kar liya ya malware bhej diya, aur agar subnetting hui wi hai, to hacker sirf usi ek chote subnet tak hi attack kar sakega. Woh Accounts ya Server wale main area tak nahi pahonch payega kyunki beech mein subnets ki deewarein hoti hain!

Syed Ghous Ki Expert Security Tip:

"Hamesha network design karte waqt sensitive devices (jaise Servers aur CCTV Cameras) ko aam users ya guests ke network se ****Subnetting**** ke zariye bilkul alag (Isolate) rakhein. Is tarah agar guest network hack bhi ho jaye, aap ka main critical data safe rahega!"