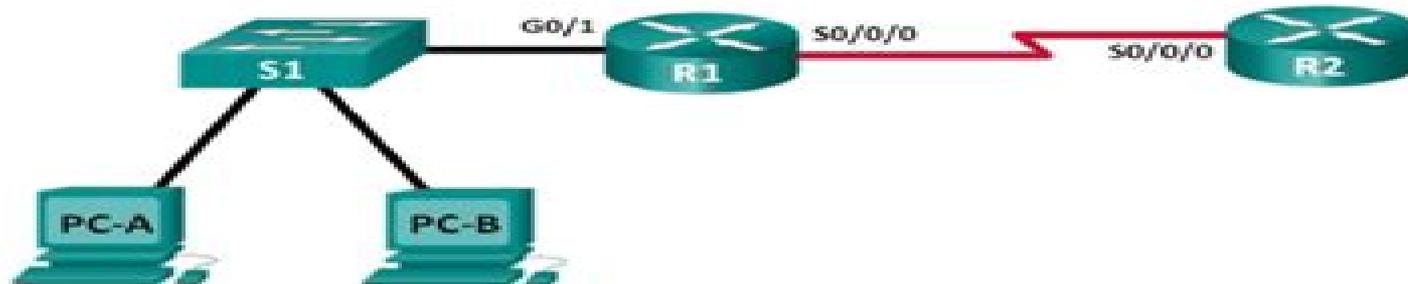


Lab – Subnetting Network Topologies

Part 1: Network Topology A

In Part 1, you have been given the 192.168.10.0/24 network address to subnet, with the following topology. Determine the number of networks needed and then design an appropriate addressing scheme.



Step 1: Determine the number of subnets in Network Topology A.

a. How many subnets are there?

Subnet 1: PC-A, PC-B, Switch S1

Subnet2: link between R1 and R2

So, the total required subnet = 2

b. How many bits should you borrow to create the required number of subnets?

192.168.10.0/24 has a default subnet mask of 255.255.255.0 => **8 host bits are available**

We have $2^n \geq \text{required subnets}$ so to create at least 2 subnets, we need to borrow at least 1 bit from the host portion. ($2^1 = 2$)

c. How many usable host addresses per subnet are in this addressing scheme?

The number of host addresses per subnet:

$$2^{(8-1)} - 2 = 128 - 2 = 126$$

Cisco Lab Subnetting Network Topologies Answers

Sebastian Brünink



Cisco Lab Subnetting Network Topologies Answers:

Cisco Lab Subnetting Network Topologies Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Cisco Lab Subnetting Network Topologies Answers : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Cisco Lab Subnetting Network Topologies Answers : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://matrix.jamesarcher.co/data/scholarship/fetch.php/stories%20friendship%20stories%20kids.pdf>

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