

Practice Assignment

Case Study

ABC is a global IT company which mainly based in USA. Recently, the company has decided to move to the Australian market. ABC has decided to establish two main branches in two of the major Australian cities (Canberra, Perth). Perth branch will have up to 700 employees. Canberra branch will have up to 1200 employees. Each branch has its own server. It is understood that employees should be able to communicate and access data from different servers within the three sites. You have been hired as an IT Administrator at the IT department and you have been asked to analyse, design, and configure the new network as it shows in Figure1.

Use Network Address:
10.XX.0.0/18 For Canberra

Use Network Address:
172.XX.0.0/16 For Perth

Where XX is the last 2 digits of your student ID

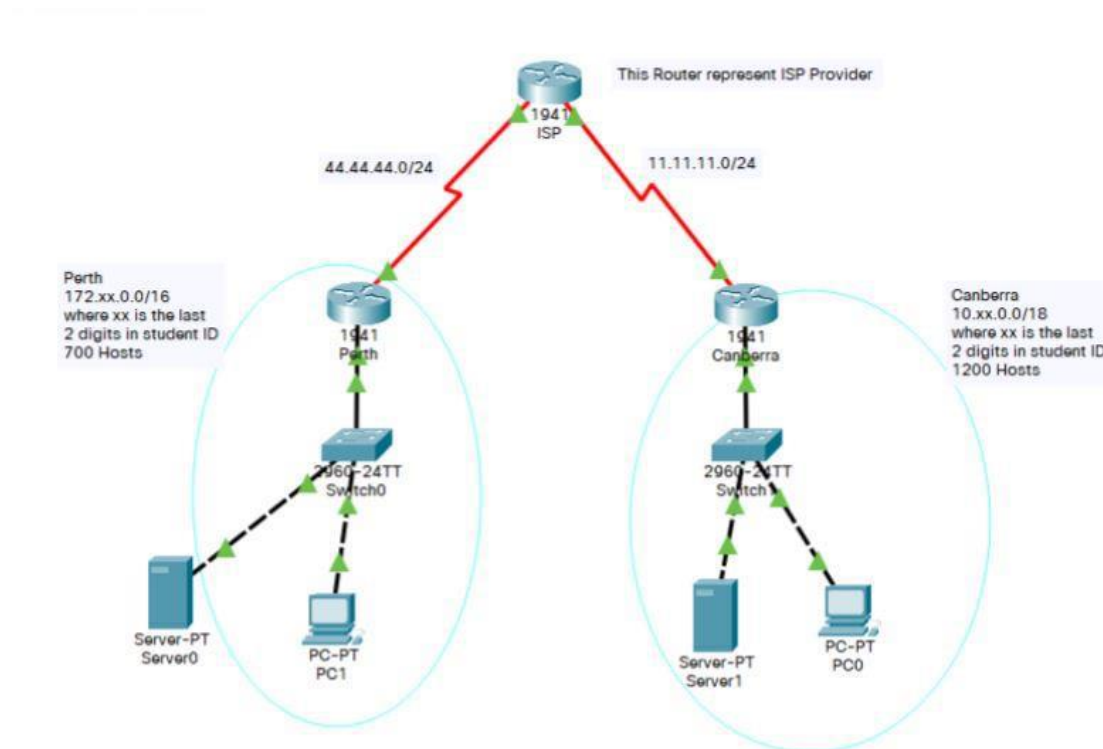


Figure 1: Network design for ABC company

For the network diagram in Figure 1:

Task Specifications

Task-A: Prepare a report to provide the details configuration for the network for ABC company.

Canberra	
Allocated Subnet address and Subnet Mask	
Network address	
Default Gateway address	
Valid host address range	
Broadcast address	

Perth	
Allocated Subnet address and Subnet Mask	
Network address	
Default Gateway address	
Valid host address range	
Broadcast address	

Network between Canberra to ISP	
Allocated Subnet address and Subnet Mask	
Network address	
Valid host address range	
Broadcast address	

Network between Perth and ISP	
Allocated Subnet address and Subnet Mask	
Network address	
Valid host address range	
Broadcast address	

Canberra
<p>(Copy and paste the device configuration, DO NOT use screenshot from Packet Tracer)</p> <p>S1: enable</p> <p>S1: configure terminal</p> <p>S1: ...</p>