

Day-10

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Today I completed 2 courses related to Networking as from the evaluation of previous days, I was told that Networking is a point where I am weak and I need to work on my base knowledge of Networking, its many aspects. So today I covered two topics, their information is given below:

I took the CompTIA Network+ course on Infosys Springboard and learned about important networking concepts. I understand the role of 'ports' in identifying services running on a network, and how protocols like SQL and MySQL are used for database communication. The notes I took are attached below. I also learned about different types of IP protocols, such as ICMP, TCP (Eg: Bluetooth), UDP (Eg: Streaming), GRE (Tunneling), and IPsec, etc.....

Notes

Take note

Structured Query Language (SQL) Server

DB-14

In Microsoft, any app that communicate with a DB server always use TCP port 1433 by default. You can change it, many consumers change it for security reasons.

edited Dec 27, 2024, 10:28 AM

SQLNet Configuration

DB-22

Oracle SQLNet runs on TCP port 1521 by default.

created Dec 27, 2024, 10:40 AM

MySQL Database Service

DB-21

MySQL operates on TCP 3306 port by default.

created Dec 27, 2024, 10:47 AM

DB-27

Client connection of MySQL:
Any Platform - TCP/IP sockets
Windows - Named Pipes
Unix - Unix Domain Socket Files

created Dec 27, 2024, 10:51 AM

Remote Desktop Protocol (RDP)

DB-29

Remote Desktop Protocol (RDP) uses TCP port 3389 and UDP port 3389

created Dec 27, 2024, 11:09 AM

Important Ports to remember:

- 1) In microsoft, any app that communicate with a DB server always uses **TCP port 1433** by default. You can change it, many consumers change it for Security Reasons.
- 2) Oracle SQLNet runs on **TCP port 1521** by default.
- 3) MySQL operates on **TCP 3306 port** by default.
- 4) Remote Desktop Protocol (RDP) uses **TCP port 3389**
- 5) **Port 80**: Hypertext Transfer Protocol (HTTP)
- 6) **Port 443**: HTTP Secure (HTTPS)
- 7) **Port 22**: Secure Shell (SSH)
- 8) **Port 21**: File Transfer Protocol (FTP)
- 9) **Port 25**: Simple Mail Transfer Protocol (SMTP)
- 10) **Port 53**: Domain Name System (DNS)
- 11) **Port 110**: Post Office Protocol version 3 (POP3)
- 12) **Port 143**: Internet Message Access Protocol (IMAP)
- 13) **Port 123**: Network Time Protocol (NTP)
- 14) **Port 23**: Telnet
- 15) **Port 445**: SMB (Server Message Block)
- 16) **Port 465**: SSMTP
- 17) **Port 137-139**: NetBIOS
- 18) **Port 67-68**: DHCP
- 19) **Port 873**: Rsync
- 20) **Port 161-162**: SNMP

I also took the CompTIA Network+: IP Addressing Schemes and Subnetting course on Infosys Springboard. This course helped me learn about how IP addresses work and how they affect network communication if not configured and managed properly. I understood IPv4 and IPv6 and the difference between public and private IP addresses. I also learned about subnetting, how it divides networks, and how to calculate subnet masks.

Courses Completion Validation:

TITLE ↕	TYPE ↕	STATUS ↕	STARTED ↕	COMPLETED ↕	HIGHEST SCORE ↕	
CompTIA Network+: Registered Ports	Course	Completed	12/27/2024	12/27/2024	86	⋮
CompTIA Network+: IP Addressing Schemes and Subnetting	Course	Completed	12/27/2024	12/27/2024	80	⋮