

CDAC FCN – Well Known Protocols (Ordered by Port Number)

Ordered list of commonly asked interview & FCN syllabus protocols with simple working.

Port No.	Protocol / Service	Very Simple Working
20	FTP (Data)	Transfers actual file data
21	FTP (Control)	Controls FTP session
22	SSH / SFTP	Secure remote login & file transfer
23	Telnet	Remote login without security
25	SMTP	Sends emails
49	TACACS+	Authenticates network device access
53	DNS	Converts domain name to IP
67	DHCP (Server)	Assigns IP address
68	DHCP (Client)	Receives IP address
69	TFTP	Simple file transfer
80	HTTP	Web traffic (non-secure)
88	Kerberos	Secure authentication
110	POP3	Downloads emails
119	NNTP	Transfers news messages
123	NTP	Synchronizes system time
137	NetBIOS Name	Windows name service
138	NetBIOS Datagram	Windows datagram service
139	NetBIOS Session	Windows file sharing
143	IMAP	Reads emails from server
161	SNMP	Monitors network devices
179	BGP	Internet routing protocol
389	LDAP	Centralized authentication
443	HTTPS	Secure web traffic
445	SMB / CIFS	Windows file sharing
465	SMTPS	Secure email sending
500	ISAKMP	IPSec key exchange
514	Syslog	Collects system logs
587	SMTP Submission	Authenticated email sending
636	LDAPS	Secure LDAP
989	FTPS (Data)	Secure FTP data transfer
990	FTPS (Control)	Secure FTP control
993	IMAPS	Secure IMAP
995	POP3S	Secure POP3

1433	MS SQL	Microsoft SQL database
1521	Oracle	Oracle database connection
2049	NFS	Network file sharing
2082	cPanel	Hosting control panel
2083	cPanel SSL	Secure hosting control panel
2181	ZooKeeper	Distributed coordination service
2375	Docker	Docker remote API
2376	Docker SSL	Secure Docker API
2483	Oracle SSL	Secure Oracle DB
2484	Oracle TCPS	Encrypted Oracle DB
3000	Generic App	Application testing port
3306	MySQL	MySQL database communication
3389	RDP	Remote Windows desktop
5432	PostgreSQL	PostgreSQL database
5601	Kibana	Log visualization
5672	AMQP	Message queue (RabbitMQ)
5900	VNC	Remote graphical desktop
5985	WinRM	Windows remote management
5986	WinRM SSL	Secure Windows remote management
6379	Redis	In-memory database
6443	Kubernetes API	K8s cluster communication
6667	IRC	Chat protocol
7001	WebLogic	Application server
8000	Alternate HTTP	Development web server
8080	HTTP Alternate	Proxy / dev web server
8443	HTTPS Alternate	Secure dev web server
9000	PHP-FPM	PHP process manager
9042	Cassandra	NoSQL database
9200	Elasticsearch	Search & analytics
9418	Git	Git repository access
27017	MongoDB	NoSQL database