<b>NETWORK Cheat Shee</b>
---------------------------

Question	Answer			
What is a network ?	A nerwork is a group of connected, communi	icating devices.		
What is Internet?	An internet is two or more networks that communicates with each other.			
What is a Protocol?		s that governs communication. The key elements are of protocol are syntax, semantics and timing. A protocol cated, how it is communicated and when it is communicated.		
Protocols	Description			
НТТР	Hypertext Transfer Protocol	This Internet Protocol defines how data is transmitted over the internet and determines how web servers and browsers shou respond to commands		
FTP	File Transfer Protocol	FTP s a network protocol for transmitting files.		
SMTP	Simple Mail Transfer Protocol	SMTP is the basic standard that mail servers use to send email to one another across the internet.		
IP	Internet Protocol	This is a protocol, or set of rules, for routing and addressing packets of data so that they can travel across networks and arrive at the correct destination.		
ТСР	Transmission Control Protocol	A connection-oriented communications protocol that facilitates the exchange of messages between computing devices in a network.		
UDP	User Datagram Protocol	A communications protocol that facilitates the exchange of messages between computing devices in a network.		
SSH	Secure Socket Shell	This protocol provides secure access to a computer, even if it's on an unsecured network.		
SMS	Short Message Service	To send and receive text messages over cellular networks		
DHCP	Dynamic Host Configuration Protocol	Is a network management protocol used to automate the process of configuring devices on IP networks		
Acronyms	Description			
DNS	Domain Name System			
ISP	Internet Service Provider			
LAN	Local Area Network			
HTML	HyperText Markup Language			
URL	Uniform Resource Locator			
CRUD	Create, Read, Update, Delete			
REST	REpresentational State Transfer			
WAN	Wide area network			
Purposes	Methods of request			
GET	request to read, fetch a document (text, image, script, etc)			
HEAD	request to read just the header of a document			
POST	request to update a collection, append a named resource			
PUT	request to write over, store a new document on the server			

DELETE	request to remove a document from the server	•	
TRACE	to invoke a remote loop-back of the request me		
CONNECT	for use with a proxy server		
LINK	connect two existing resources		
UNLINK	break an existing connection between two resources		
PATCH	method, used to apply partial modifications to a resource		
17(1011	incursor, used to apply partial modifications to a resource		
HTTP Status Codes	Descripton	HTTP Server Status	
200	OK .	The request status is reported by a 3-digit code	
201	Created	Five groups of code, defined by the first digit	
202	Accepted		
204	No Content	1xx: Informational-Request received, continuing process	
301	Moved Permanently	2xx: Success-The action was successfully received, understood, and accepted	
302	Moved Temporaliy	3xx: Redirection-Further action must be taken in order to complete the request	
304	Not Modified	4xx: Client Error -The request contains bad syntax or cannot be fulfilled	
400	Bad Request	5xx: Server Error -The server failed to fulfill an apparently valid request	
401	Unauthorized		
403	Forbidden		
404	Not Found		
500	Internal Server Error		
501	Not Implemented		
502	Bad Gateway		
503	Service Unavailable		
HTTP methods			
GET (get resource)	SUCCESS = 200 OK		
	FAILURE = 404 NOT FOUND, 405 NOT ALLOWED, 403 FORBIDDEN		
	ALLOWED, 400 I ONDIDDEN		
POST (new resource)	SUCCESS = 201 CREATED		
	FAILURE = 401 UNAUTHORIZED, 409		
	CONFLICT, 404 NOT FOUND		
POST (update resource)	SUCCESS = 200 Ok	PUT method is used to modify the complete record	+
(. [	FAILURE = 204 NO CONTENT, 404 NOT	Can also be used as UPSERT. If ressource does not exist, create ressource if ressource	
	FOUND, 405 METHOD NOT ALLOWED	exist update ressource.	

DELETE (delete resource)	SUCCESS = 200 OK			
,	FAILURE = 401 UNAUTHORIZED, 404 NOT			
	FOUND, 405 METHOD NOT ALLOWED			
PATCH	SUCCESS = 200 Ok	Patch method is used for partial medification of the record		
FAIGH	FAILURE = 204 NO CONTENT, 404 NOT	Patch method is used for partial modification of the record		
	FOUND, 405 METHOD NOT ALLOWED			
		The HTTP HEAD method requests the headers that would be returned if the HEAD	1	
HEAD	SUCCESS = 200 OK	request's URL was instead requested with the HTTP GET method. For example, if a URL might produce a large download, a HEAD request could read its Content-Length header to check the filesize without actually downloading the file		
	FAILURE = 404 NOT FOUND			
OPTIONS	SUCCESS = 200 OK	Identifying allowed request methods		
	FAILURE = 404 NOT FOUND			
Port Number	Description			
1	TCP Port Service Multiplexer (TCPMUX)			
5	Remote Job Entry (RJE)			
7	ECHO			
18	Message Send Protocol (MSP)			
20	FTP — Data			
21	FTP — Control			
22	SSH Remote Login Protocol			
23	Telnet			
25	Simple Mail Transfer Protocol (SMTP)			
29	MSG ICP			
37	Time			
42	Host Name Server (Nameserv)			
43	Whols			
49	Login Host Protocol (Login)			
53	Domain Name System (DNS)			
69	Trivial File Transfer Protocol (TFTP)			
70	Gopher Services			
79	Finger			
80	HTTP			
103	X.400 Standard			
108	SNA Gateway Access Server			
109	POP2			
110	POP3			
115	Simple File Transfer Protocol (SFTP)			

118	SQL Services	
119	Newsgroup (NNTP)	
137	NetBIOS Name Service	
139	NetBIOS Datagram Service	
143	Interim Mail Access Protocol (IMAP)	
150	NetBIOS Session Service	
156	SQL Server	
161	SNMP	
179	Border Gateway Protocol (BGP)	
190	Gateway Access Control Protocol (GACP)	
194	Internet Relay Chat (IRC)	
197	Directory Location Service (DLS)	
389	Lightweight Directory Access Protocol (LDAP)	
396	Novell Netware over IP	
443	HTTPS	
444	Simple Network Paging Protocol (SNPP)	
445	Microsoft-DS	
458	Apple QuickTime	
546	DHCP Client	
547	DHCP Server	
563	SNEWS	
569	MSN	
1080	Socks	