PORTS AND PROTOCOLS

USEFUL PORTS

APPLICATION/PROTOCOL	TCP/UDP	PORTNUMBER
FTP File Transfer Protocol	ТСР	20/21
TELNET	ТСР	23
SSH Secure Shell	ТСР	22
DNS Domain Naming	TCP/UDP	53
Service		
DHCP Dynamic Host Configuration Protocol	UDP	67/68
TFTP Trivial FTP	UDP	69
HTTP Hypertext Transfer Protocol	ТСР	80
HTTPS HTTP Secure	ТСР	443
SMTP Simple Mail	ТСР	25
Transport Protocol		
NetBIOS	ТСР	137, 138, 139
LDAP Lightweight	ТСР	389
Directory Access Protocol		
Secure LDAP	ТСР	636
RDP Remote Desktop Protocol	ТСР	3389
NTP Network Time	UDP	123
Protocol		
POP3 Post Office	ТСР	110
Protocol 3	TCD	1/7
IMAP4 Internet Mail Access Protocol 4	ТСР	143
SNMP Simple Network	UDP	161
Management Protocol Kerberos	UDP/TCP	88

USEFUL APPLICATION PROTOCOLS

DNS – Domain Naming Service/System. Resolves FQDN to IP Address (and reverse)

ARP – Address Resolution Protocol. Resolves IP addresses to MAC addresses

RARP – Reverse ARP. Resolves MAC addresses to IP addresses

DHCP – Issues IP Addresses to DHCP Clients

(APIPA – 169.254.x.x /16 – Automatic Private IP Addressing – DHCP Client self assigns if no DHCP server is available)

TELNET – Terminal Emulation. Remote connection (insecure)

SSH – Secure Shell – Used to secure connections:

- SFTP
- SC
- SCP

SSL/TLS – Secure Socket Layer/Transport Layer Security – Used to authenticate and secure connections:

- HTTPS
- FTPS
- SSTP (VPN)

SNMP – Simple Network Management Protocol – Used to identify and log device errors and conditions

ICMP – Internet Control Message Protocol – Used to swap control information between systems for maintenance

- PING
- Tracert
- PathPing

Kerberos – Authentication and Authorization system which uses tickets issued by the Key Distribution Center (KDC)

IGMP – Internet Group Management Protocol – used as a communication protocol for multicast messages and information