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Port Ranges

- **0 - 65535** - Full port range (two octets)
- **0 - 1023** Well known ports (aka system ports)
 - Used by system processes that provide widely used types of network services
- **1024 - 49,151** - Registered ports
 - Assigned by IANA for specific service upon application by a requesting entity
 - For a list of Registered Ports:
 - **<https://www.iana.org/assignments/port-numbers>**
 - RFC-6335 (**<https://tools.ietf.org/html/rfc6335>**) Specifies the procedures that the IANA uses when handling assignment and other requests related to the Service Name and Transport Protocol Port Number registry
- **49,152 - 65,535** - Dynamic / private / ephemeral / client ports
 - Used for private or customized services, for temporary purposes, and for automatic allocation of ephemeral ports

Specific Ports and Applications

21 - FTP (not encrypted)
22 - SSH, SFTP, SCP
23 - Telnet (not encrypted)
25 - SMTP Simple Mail Transfer Protocol
49 - TACACS+ (TCP)
50 - IpSec ESP Encapsulating Security Payload
51 - IPsec AH Authentication header
53 - DNS Domain transfer (TCP) and Domain Queries (UDP)
67 and 68 - DHCP
80 - HTTP
88 - Kerberos (UDP)
110 - POP3
143 - IMAP4
161 - SNMP Simple Network Management Protocol
162 - SNMPTRAP
389 - LDAP (TCP)
443 - HTTPS
465 - Gmail TLS

500 - IKE
520 - RIP Routing Information Protocol
554 - RTSP Real Time Streaming Protocol
587 - Gmail SSL
686 - LDAPS LDAP over SSL/TLS (TCP)
989 and 990 - FTPS Implicit FTPS using TLS
993 - SIMAP Secure IMAP
995 - SPOP Secure POP
1433 - MS SQL
1645 - RADIUS Server authentication and authorization
1646 - RADIUS Server accounting functions
1723 - PPTP Point to Point Tunnelling Protocol
1812 - RADIUS Server authentication and authorization
1813 - RADIUS Server accounting functions
1900 - UPnP Universal Plug and Play
3306 - MySQL
3389 - RDP MS Remote Display (Desktop) Protocol (TCP or UDP but normally TCP)
3868 - Diameter (TCP)
5000 - UPnP Universal Plug and Play
5004 - SRTP Secure Real-time Protocol (UDP) voip protocol
5060 - SIP Session Initialization Protocol