

## R&S Quick Notes ? Security & IP Services

**Security]** - Know how to use extended access-lists in distribute-lists, see [Brian McGahan @INE article](#). ] - Know how to use extended access-lists instead of prefix-lists, see [Brian Dennis @ INE article](#). ] - Know your binary voodoo as Scott Morris @ INE calls it, [Part I](#) & [Part II](#). ] - Don't forget to allow IGP's, BGP, Multicast, IPv6 and any other needed protocols when adding ACL to a interface. - Know when to use the 'established' keyword. - When matching Multicast traffic in a extended ACL, remember that Multicast traffic can NEVER be a source. - Allowing Telnet to a local router on a port other than 23: Option 1- Rotary command or Option 2- Port NAT. - NBAR can be used if you not forbidden from using ACL's. You can also map undefined custom ports with 'ip nbar port-map custom' - Dynamic ACL time-outs specified in the 'acl:dynamic NAME timeout {x} permit tcp any any eq 80'. - When configuring SSH, don't forget to specify a Domain-name and generate your RSA keys. **IP-Services]** - 'no service config' ? Disables the router from auto-answering for tftp config files - WCCP uses udp port 2048 and protocol 47-GRE - If talk about router discovery > IRDP - DNS server config : 'ip dns server' & 'ip host' - DNS client config : 'ip domain-lookup' & 'ip name-server' - DHCP stands for Don't Hit Computer People - DHCP option-82 = dhcp-relay. - DHCP option-66 = Hand out IP address off TFTP server - When configuring DHCP and earlier in the switching section you configured DHCP snooping you must enable the port connecting to the DHCP server as trusted. - In case DHCP was configured you need either 'no ip dhcp snooping info option' on the switch OR 'ip dhcp relay information trust' on the dhcp router. - HSRP timers only need to be configure on one of the participating routers. - HSRP uses UDP port 1984. - When using HSRP with earlier configured port-security, you might need to allow you HSRP MAC 0000.0c07.acxx ? where XX is the group number in hex.