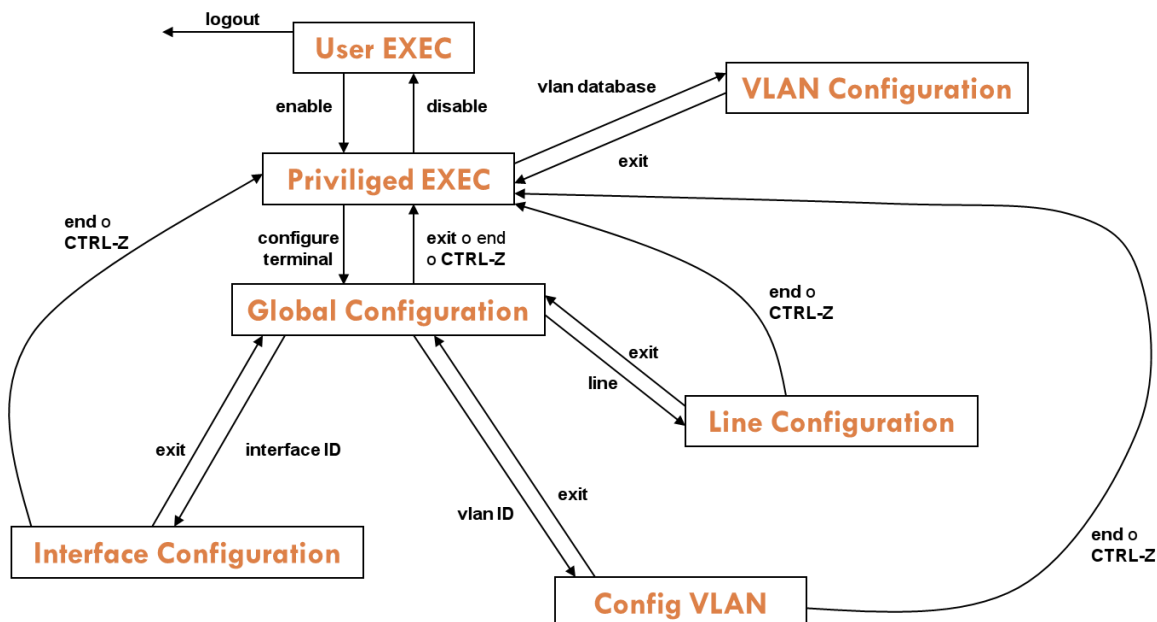


Modalità operative



Comandi

<pre>Router> Router> show cdp clock controllers frame-relay history interfaces ip version</pre>	<p>Modalità User EXEC</p> <ul style="list-style-type: none"> -CDP information -Display the system clock -Interface controllers status -Frame-Relay information -Display the session command history -Interface status and configuration -IP information -System hardware and software
<pre>Router> enable Router# Router# show access-lists arp cdp clock controllers frame-relay history interfaces ip running-config startup-config version Router# copy running-config startup-config</pre>	<p>Modalità Privileged EXEC</p> <ul style="list-style-type: none"> -List access lists -Arp table -CDP information -Display the system clock -Interface controllers status -Frame-Relay information -Display the session command history -Interface status and configuration -IP information -Current operating configuration -Contents of startup configuration -System hardware and software status <p>-Salvare la configurazione corrente</p>
<pre>Router# configure terminal Router(config)# Router(config)# hostname HOSTNAME Router(config)# banner motd Router(config)# enable secret PASSWORD Router(config)# no enable secret</pre>	<p>Modalità Global Configuration</p> <ul style="list-style-type: none"> -Cambiare nome al router -Impostare messaggio del giorno -Impostare password -Disabilitare password
<pre>Router(config)# interface TYPE SLOT/PORT Router(config-if)# no shutdown Router(config-if)# shutdown Router(config-if)# ip address IP_ADDRESS NETMASK Router(config-if)# clock rate CLOCK_RATE</pre>	<p>Configurare interfaccia</p> <ul style="list-style-type: none"> -Attivare interfaccia -Disattivare interfaccia -Assegnare IP -Clock seriale
<pre>Router(config)# line vty 0 4 Router(config-line)# password PASSWORD Router(config-line)# login Router(config-line)# ^Z</pre>	<p>-Accesso via rete (remoto).</p> <ul style="list-style-type: none"> -Impostare la password per l'accesso via rete
<pre>Router(config)# line console 0</pre>	<p>Accesso via porta console</p>

<pre>Router(config)# ip dhcp pool NAME_POOL Router(dhcp-config)# default-router ROUTER_IP_ADDRESS Router(dhcp-config)# network NETWORK_IP_ADDRESS NETMASK Router(dhcp-config)# ip dhcp excluded-address EXCLUDED_IP_ADDRESS</pre>	<p>DHCP</p> <ul style="list-style-type: none"> -Nome pool indirizzi -Assegnare il default gateway al pool -Definire la rete a cui appartengono gli indirizzi -Escludere un indirizzo dal pool
<pre>Router(config)# ip route DEST_PREFIX DEST_NETMASK NEXTHOP/INTERFACE Router(config)# no ip route DEST_PREFIX DEST_NETMASK NEXTHOP/INTERFACE</pre>	<ul style="list-style-type: none"> -Aggiungere una rotta statica -Rimuovere una rotta statica
<pre>Router(config)# router rip Router(config)# no router rip Router(config-router)# version N Router(config-router)# network A.B.C.D Router(config-router)# passive-interface TYPE SLOT/PORT Router# debug ip rip Router# no debug ip rip Router# show ip route Router# show ip route rip Router# show ip protocols Router# show ip rip database</pre>	<ul style="list-style-type: none"> -Abilitare RIP -Disabilitare RIP -Scegliere la versione -Definire le reti che usano RIP -Configurare un'interfaccia in modalità passiva. <ul style="list-style-type: none"> -Abilitare/disabilitare il debug per il protocollo RIP - Ottenere la tabella di routing -Visualizzare le entry nella tabella di routing ottenute con RIP - Ottenere l'elenco dei protocolli di routing attivi e il loro stato - Visualizzare le informazione raccolte dal routing RIP
<pre>Router(config)# router ospf ID-PROCESS Router(config)# no router ospf ID-PROCESS Router(config-router)# network A.B.C.D NET_WILDCARD area N Router(config-router)# auto-cost reference- bandwidth BANDWIDTH_VALUE Router(config)# interface TYPE SLOT/PORT Router(config-if)# ip ospf cost COST_VALUE</pre>	<ul style="list-style-type: none"> -Abilitare OSPF -Disabilitare OSPF -Definire le reti che usano OSPF <ul style="list-style-type: none"> -Modificare il valore di banda di riferimento <ul style="list-style-type: none"> -Modificare la metrica costo
<pre>Router(config)# router eigrp N Router(config)# no router eigrp N Router(config-router)# network A.B.C.D Router(config-router)# metric weights TOS K1 K2 K3 K4 K5</pre>	<ul style="list-style-type: none"> -Abilitare EIGRP -Disabilitare OSPF -Definire le reti che usano EIGRP -Modificare i pesi delle metriche
<pre>Router(config)# interface TYPE PORT/SLOT Router(config-if)# ip nat inside Router(config-if)# ip nat outside Router(config)# access-list LIST_NUM permit NET_ADDR NET_WILDCARD Router(config)# ip nat inside source list LIST_NUM interface OUTSIDE_INTERFACE_NAME overload</pre>	<p>Configurazione NAT</p> <ul style="list-style-type: none"> -definizione ruolo porte <ul style="list-style-type: none"> - Creare una lista di indirizzi a cui sarà permesso il NAT - Associare il NAT alla lista indicata prima
<pre>Router(config)# interface TYPE PORT/SLOT Router(config-if)# ip nat inside Router(config-if)# ip nat outside Router(config)# ip nat inside source static tcp IP_INSIDE PORT_INSIDE IP_OUTSIDE PORT_OUTSIDE</pre>	<p>Configurazione Port Forwarding</p> <ul style="list-style-type: none"> -definizione ruolo porte <ul style="list-style-type: none"> - Associare staticamente l'indirizzo e la porta esterna a quelli interni
<pre>Switch> enable Switch# show spanning-tree Switch> enable Switch# config Switch(config)# spanning-tree vlan 1 priority 0</pre>	<p>SPANNING TREE</p> <ul style="list-style-type: none"> -Controllare lo stato del protocollo STP -Impostazione di uno switch come Root Bridge

