

## ROUTER SECURITY CONFIG COMMANDS

Command	Explanation
<b>ROUTER/PRIVILEGE MODE ACCESS</b>	Cisco and class are used the the following examples as passwords and should never be used in a production environment.
Lab-B(config)#enable password cisco  <i>Should not use this command - enable secret should be used in its place.</i>	Sets standard clear text password for router access to privileged mode to "cisco".
Lab-B(config)#enable secret class	Sets the encrypted version of the routers password to "class"  <i>Secret password overrides standard password.</i>
Lab-B(config)#security passwords min-length 10	Set the minimum length for all passwords to 10. Values from 0-16 can be used. <i>Available starting IOS 12.3(1)</i>
Lab-B(config)#service password-encryption	Encrypts all passwords on the router. <i>Simple encryption. Enable Secret sould still be used as it uses MD5 encryption.</i>
Lab-B(config)#username steve password cisc12345	Enables authentication on the router for access. Names and passwords are stored on the router. Set the username to "steve" with a password of "cisco12345"
Lab-B(config)#username steve secret cisco12345	Enables authentication and stores the password using MD5 encryption. <i>Preferred command for setting up authentication.</i>
<b>STANDARD CONSOLE AND TELNET</b>	
Lab-B(config)#line con 0	Changes from Global configuration to Line Console 0. Used to configure access to Console port
Lab-B(config-line)#password cisco	When used with "login" assigns the password to be used for a port
Lab-B(config-line)#login	Requires that the password be used to log into the port. Requires "password" command
Lab-B(config-line)#line vty 0 4	Changes from Global configuration to the 5 (0-4) telnet or virtual terminals configuration.
Lab-B(config-line)#login	Requires that the password be used to log into the port. Requires "password" command
Lab-B(config-line)#password cisco	When used with "login" assigns the password to be used for a port

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Lab-B(config-line)#line aux 0	Changes from Global configuration to the Auxiliary configuration. Auxiliary port is for modem access.
Lab-B(config-line)#login	Requires that the password be used to log into the port. Requires “password” command
Lab-B(config-line)#password cisco	When used with “login” assigns the password to be used for a port
<b>ENHANCED SECURITY CONSOLE AND TELNET</b>	
Lab-B(config-line)#exec-timeout 3	Set a timer to end the session after 3 minutes of inactivity. Default is 10 min. <i>Must be applied to each line separately.</i>
Lab-B(config-line)#no exec	Applied to a line, allows only outgoing connections for the port.
Lab-B(config)#username <i>steve</i> secret <i>cisco12345</i>  Lab-B(config-line)#login local	Used in place of the password and login command for the line. The router will use the locally stored usernames and passwords to allow access to the line.
Lab-B(config)# login block-for <i>15</i> attempts <i>3</i> within <i>60</i>	Will block the virtual login for 15 seconds if 3 incorrect logins were entered in 60 seconds. <i>Sets default delay of 1 sec between login attempts</i>
Lab-B(config)# login delay <i>10</i>	When used with login block-for increases delay between all login attempts.  <i>Default is 1 sec when used with login block-for command</i>
Normal Mode – Monitoring Logins, Quite Mode all login attempts are block unless login quiet-mode command is issued.	
Lab-B(config)# login quiet-mode access-class <i>Accesslistname</i>	Sets the access list to allow admin access to the router when logins are blocked.
Ip access-list standard <i>accesslistname</i> Permit 192.168.1.11 Permit 192.168.2.11	Set access to only the two Admin PC ip address to the router when in Quite-mode.
When the router switches from Normal to Quite modes and back logging messages are generated.	
Lab-B(config)# login on-failure log  <i>Lab-B(config)# login on-failure log every 5</i>	Displays message on every failed Login attempt

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Command	Explanation
	Can change from 1 to 65535.
Lab-B(config)# login on-success log Lab-B(config)# login on-success log every 5	Displays message on every successful Login attempt  Can change from 1 to 65535.
Lab-B#show login	Displays the setting of the login setting.
Lab-B#show login failures	Displays additional info about failed logins such as IP address where the attempt originated.