## Liten oversikt over forskjellige steder man kan navigere seg rundt i inne på en switch eller ruter:

Mode	Symbol	How to access this mode	Command for leaving this mode
User EXEC Mode	Router >	Default mode after booting. Press enter for accessing this.	Use exit command
Privileged EXEC mode	Router#	Use <b>enable</b> command from user exec mode for entering into this mode	exit
Global Configuration mode	Router(config)#	Use <b>configure terminal</b> command from privileged exec mode	Exit or Ctrl+Z for user EXEC mode
Interface Configuration	Router(config-if)#	Use interface <interface name+number=""> command from global configuration mode</interface>	Use <b>exit</b> command to return in global mode

For å en liste over aktuelle interfaces kan man bruke show ip interface brief.

Fargekoding for hvor aktuell kommando er gyldig:

Router>

Router#

Router(config)#

Router(config-if)#

## Grunnleggende kommandoer for å navigere seg rundt, skru av og på interfaces, lagre config osv:

Command	Purpose
<b>enable</b>	Logs you into enable mode, which is also known as user exec mode or privileged mode
configure terminal	Logs you into configuration mode
interface type/number	Enters interface configuration mode for the specified interface. Examples: interface fastEthernet 0/1 interface VLAN 1 interface Serial 0/0/0 interface gigabitEthernet 0/1
reload	An exec mode command that reboots a Cisco switch or router
hostname name	Sets a hostname on the current Cisco network device. Required for configuring SSH.

<mark>сору</mark> from-location to-location	An enable mode command that copies files from one file location to another
copy running-config startup-config	An enable mode command that saves the active config, replacing the startup config when a Cisco network device initializes
copy startup-config running-config	An enable mode command that merges the startup config with the currently active config in RAM

ipv6 unicast-routing	Enables IPv6 on the current device.
<mark>lpv6 address</mark> ipv6 address/prefix	Assigns the IPv6 address and prefix on the interface.
<mark>lpv6 address</mark> ipv6 address/prefix <mark>link-local</mark>	Assigns the IPv6 address and prefix on the interface as a link-local address.
<mark>shutdown</mark>	Used in interface configuration mode. "Shutdown" shuts down the interface, while "no shutdown" brings up the interface.
no shutdown	
ip default-gateway ip_address	Sets the default gateway on a Cisco device. In the labs, this is <b>mostly used on switches.</b>
no ip domain-lookup	Disables DNS lookup, typically seen when "Translating" appears after a mistake.
<mark>Ip domain-name</mark> domain	Sets the domain name. Required for configuring SSH. Example: cisco.net, lab.com, etc
show running-config	An enable mode command that displays the current configuration

description name-string	A config interface command to describe or name an interface
show running-config interface interface slot/number	An enable mode command to display the running configuration for a specific interface
show ip interface [type number] show ip interface brief	Displays the usability status of interfaces that are configured for IP.  Shows a summary of all interfaces with their status and configured address.

## Konfigurasjon av ruter, inspeksjon av ruting tabell og lignende:

<pre>ip route network-number network-mask {ip- address   interface}</pre>	Sets a static route in the IP routing table
show ip route	Shows the routing table on the current device

## Sikkerhetsrelaterte kommandoer:

password pass-value	Sets the password that is required if the login command (with no other parameters) is configured
login	Activates the password above, so that it is requested on login.
login local	Activates locally configured username and password instead (see below).

exec-timeout number in minutes	Sets the timeout for inactive users.
username name password pass-value	A global command that defines one of possibly multiple user names and associated passwords used for user authentication. It is used when the <b>login local</b> line configuration command has been used.
enable password pass-value	A configuration mode command that defines the password required when using the enable command. Less secure than the enable secret command, and it is recommended to use the enable secret command instead.
enable secret pass-value	A configuration mode command that sets this Cisco device password that is required for any user to enter enable mode. Replaces the enable password command if used.
service password-encryption	A configuration mode command that directs the Cisco IOS software to encrypt the passwords, CHAP secrets, and similar data saved in its configuration file
ip domain-name name	Configures a DNS domain name. Must be set to activate SSH.
crypto key generate rsa modulus bits	A configuration mode command that creates and stores the keys that are <b>required by SSH</b> .
transport input {telnet   ssh}	Used in vty line configuration mode, defines whether Telnet or SSH access is allowed into this switch. Both values can be specified in a single command to allow both Telnet and SSH access (default settings).
ip ssh version 2	Set the running SSH version to v2.
security passwords min-length minimum password characters {0-16}	Sets the minimum password length to the selected number of characters.
login block-for seconds attempts number within seconds	Sets the number of seconds to block new login attempts for, after x failed attempts within y seconds.