# Cisco CLI - Security Cheat Sheet
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## Remote Access Security [ssh]

| | |
|---|---|
| S1# *show ip ssh* | verifies SSH is available and displays existing setup |
| S1# *configure terminal* | user exec mode |
| S1(config)# *ip domain-name ats.coop* | configures DNS |
| S1(config)# *crypto key generate rsa* | Enables SSH and generates a RSA key pair |
| S1(config)# *crypto key seroize rsa* | disables SSH |
| Cisco will prompt you for a key name | *S1.ats.coop* |
| Cisco will prompt you for modulus size | *1024* [cisco's recommended size] |
| ----------------------- | |
| S1(config)# *line vty 0 15* | move into vty config for all ports |
| S1(config-line)# *login local* | allow local logins not AAA Server ** |
| **\*Cisco's Authentication Authorization & Accounting Server** | |
| S1(config-line)# *transport input ssh* | |
| S1(config-line)# *user admin password H0u$3M0u$3* | sets local admin login pw |
| S1(config)# show ip ssh * | verify ssh settings |

Optional ssh config
- *ip ssh version 2*
- *ip ssh authentication-retries 5*
- *ip ssh time-out 60*
- *end*
- *show ip ssh*

## Show Commands

```
show version
```
  IOS Version, Memory etc.

```
show mac address-table
```
  Displays the MAC Address Table

```
show ip route
```
  Displays the routing table

```
show ip interface
```

```
show interface g0/0
```
  Displays the interface status, MAC, IP, etc.

```
show ip interface brief
```

```
show running configuration
```

## Port Security

| | |
|---|---|

## Interface Security

| | |
|---|---|

## Error Messages

| | |
|---|---|
| % Invalid input detected at '^' marker | You are at the wrong level to run command |
| % Incomplete command | |
| [command brings a null response] | This is not a bad command, there is just no results to display |

## Tips & Tricks

| | |
|---|---|
| Your CLI command fails | - are you in the right mode \| level |
| | - are you on the right device |

## Other Misc Commands

| | |
|---|---|
| mydevice (config)# **sdm pre dual def** | used if switch won't take IPv6 address |
| ? | help commands |
| Ctrl+Shift+6 | Oh crap, stop! (Cancels whatever it's currently doing |
| mydevice (config)# **enable secret abc123** | Sets secret password to *abc123* |
| show | |

## Show Commands

show ip interface brief

GigabitEthernet0/0 unassigned YES NVRAM administratively down down

*'Do' - in front of a command will run the command at any level* i.e. mydevice (config)# **do show ip interface brief** -OR- mydevice (config)# **do reload**

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