

cisco packet tracer

general

- help: ? is for help
 - ex: `show ip ?`

router

ip addressing

- static addressing (against dhcp)

```
ip address ipaddress subnetmask
```

routing table

- see the `routing table`

```
show ip route
```

- set `routing table`

```
ip route destinationnetworkip subnetmaskip nextrouterportip
```

nat

- see the `nat table`

```
show ip nat translations
```

- see the `nat history`

```
show ip nat statistics
```

- set `nat table`

```
enable  
config t
```

- static

- in intermediary router

```
ip nat inside source static <privateip> <newuniquepublicip>
```

- in intermediary router private port

```
interface interfacename  
ip nat inside  
exit
```

- in intermediary router public port

```
interface interfacename  
ip nat outside  
exit
```

- dynamic no overload (no on port)

```
ip nat pool <poolname> <ipstartrange> <ipendrange> prefix  
<subnetprefix> [overload]  
access-list <listnumber> permit <networkip> <wildcard>  
ip nat inside source list <listnumber> pool <poolname>
```

- see access-lists

```
show access-list
```

pool is where new ips can be made.

access-list is what private ip's can has access in this subnet.

pool specified with name but list specified with number!