

Port Address Translation (PAT) Cheat Sheet for Cisco Beginners

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This is a generic cheat sheet and not for a specific use case.

What is PAT?

Port Address Translation (PAT) allows multiple private IP addresses to share a single public IP address by using different port numbers. Also called "NAT Overload."

Basic PAT Configuration

Step 1: Define Inside and Outside Interfaces

```
Router(config)# interface gigabit0/0
Router(config-if)# ip nat inside

Router(config)# interface serial0/0/0
Router(config-if)# ip nat outside
```

Step 2: Create Access List (Define Private Networks)

```
Router(config)# access-list 1 permit 192.168.1.0 0.0.0.255
Router(config)# access-list 1 permit 10.0.0.0 0.255.255.255
```

Step 3: Configure PAT

```
Router(config)# ip nat inside source list 1 interface serial0/0/0 overload
```

Essential Show Commands

View NAT Translations

```
Router# show ip nat translations
Router# show ip nat translations verbose
```

View NAT Statistics

```
Router# show ip nat statistics
```

Clear NAT Translations

```
Router# clear ip nat translation *
```

```
Router# clear ip nat translation inside [local-ip] [global-ip] outside [local-ip] [global-ip]
```