Routing
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Forum

NAT

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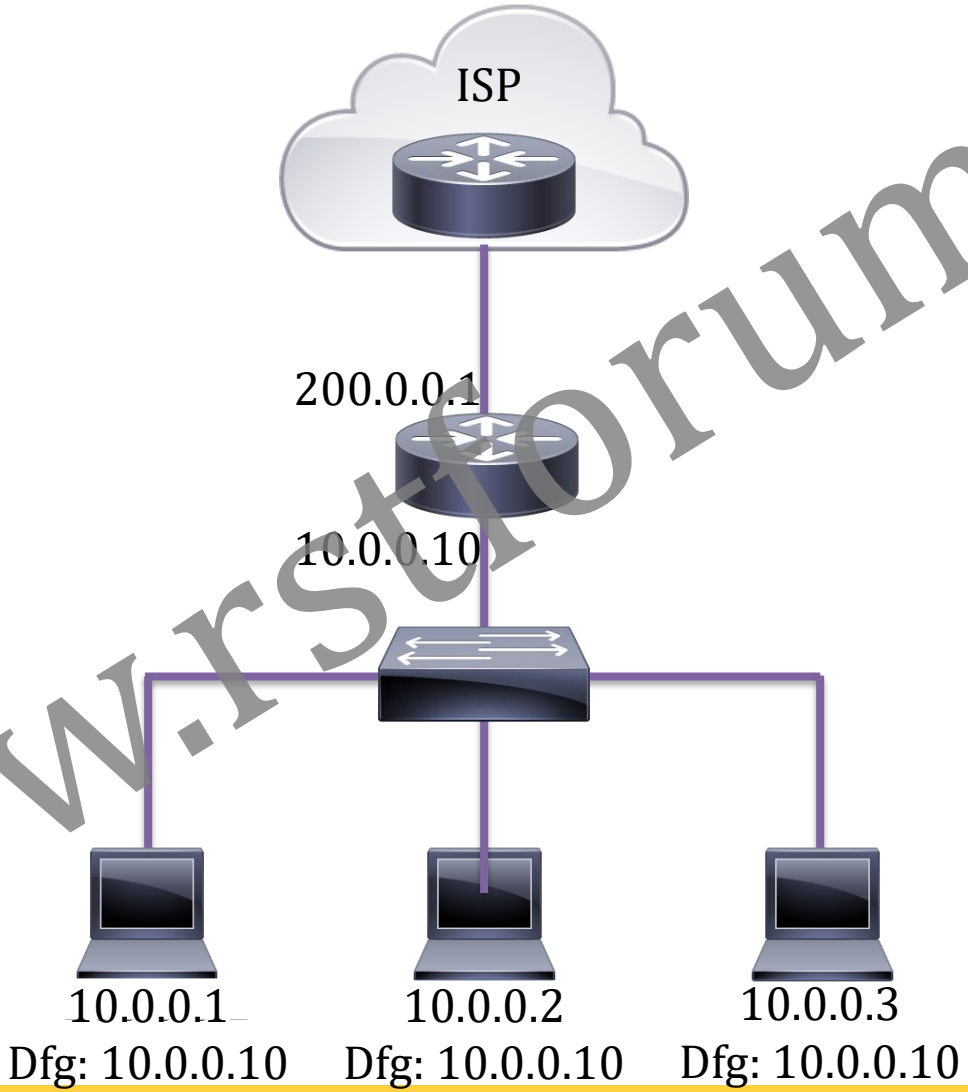

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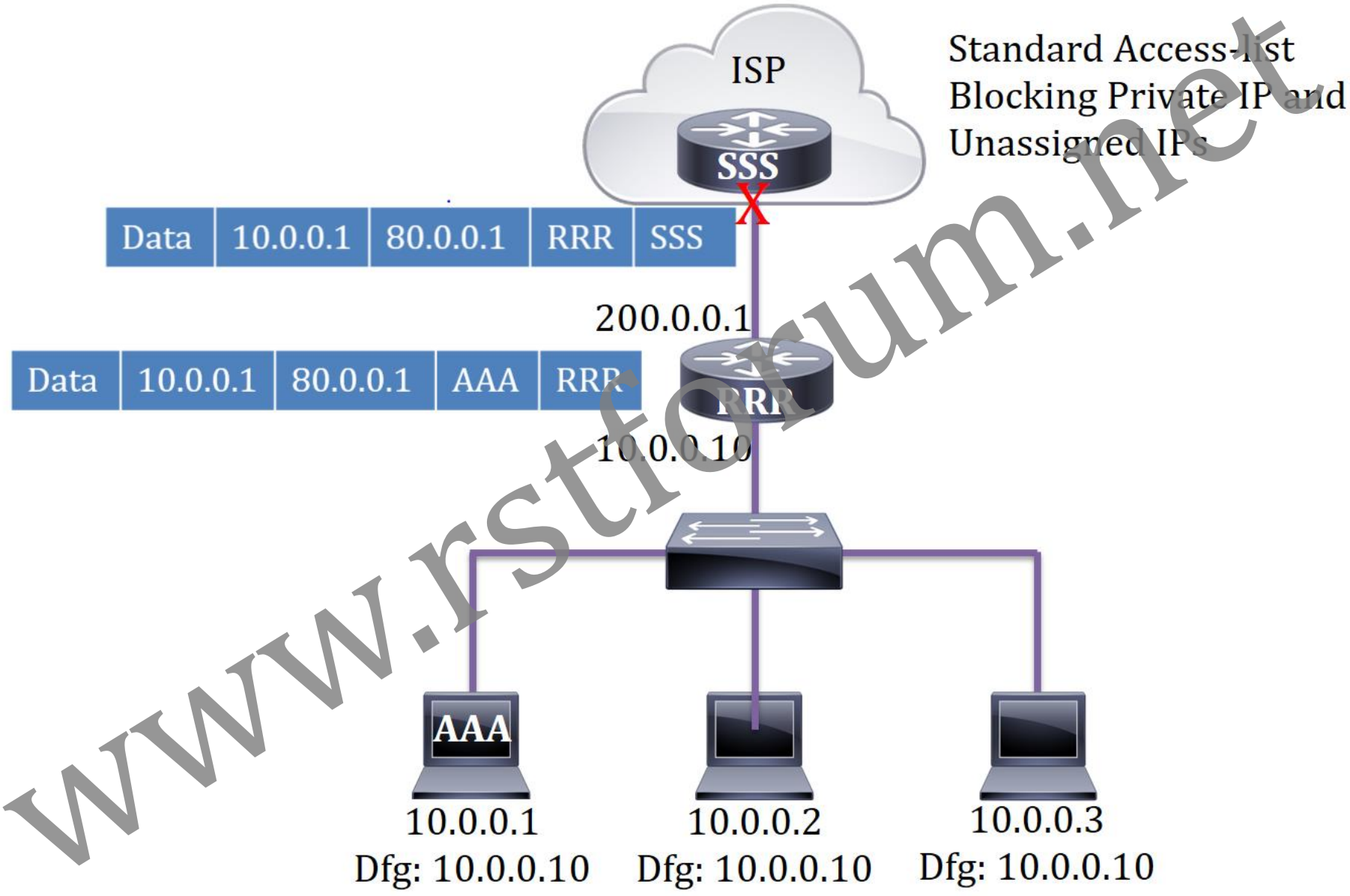

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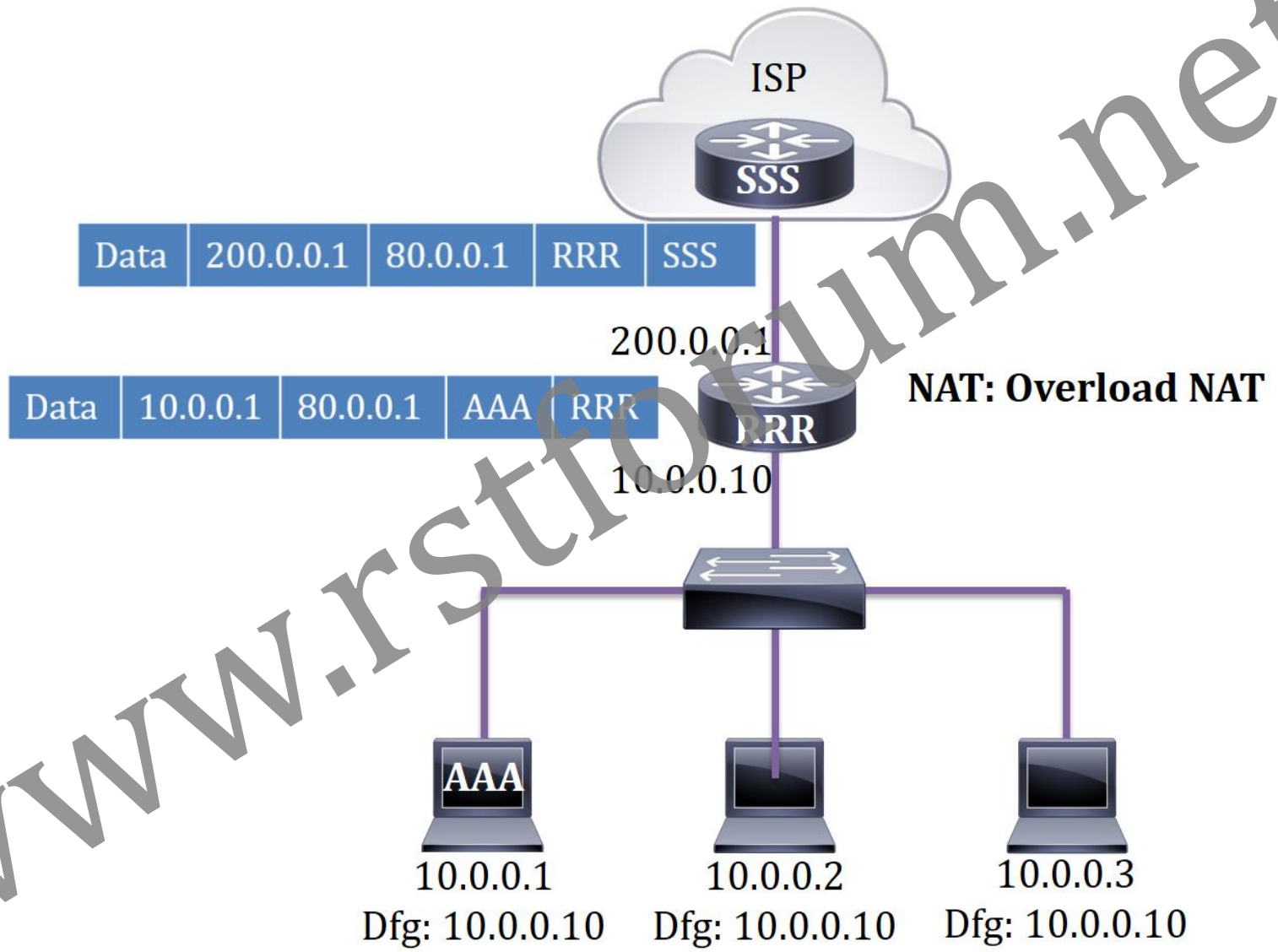

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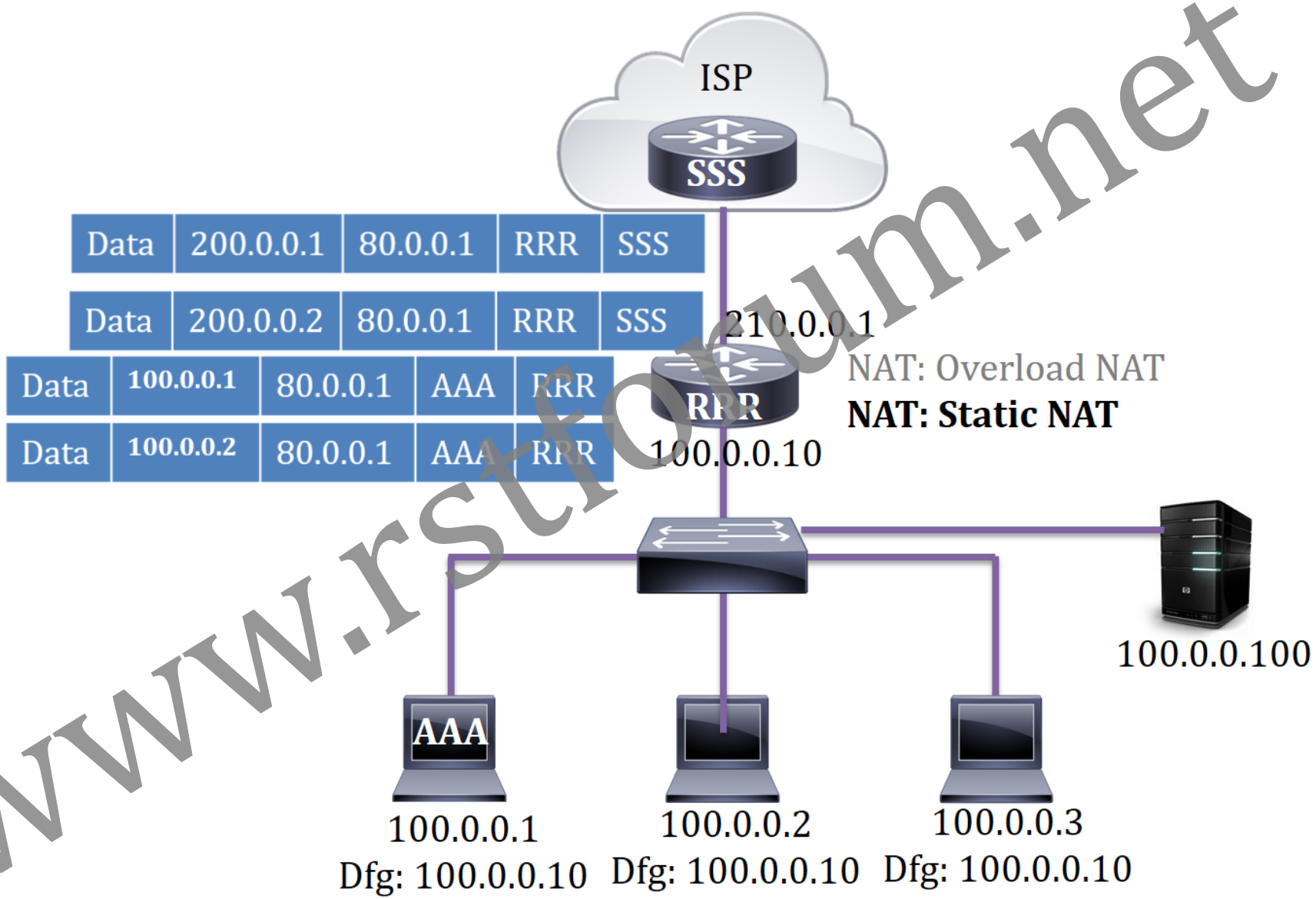

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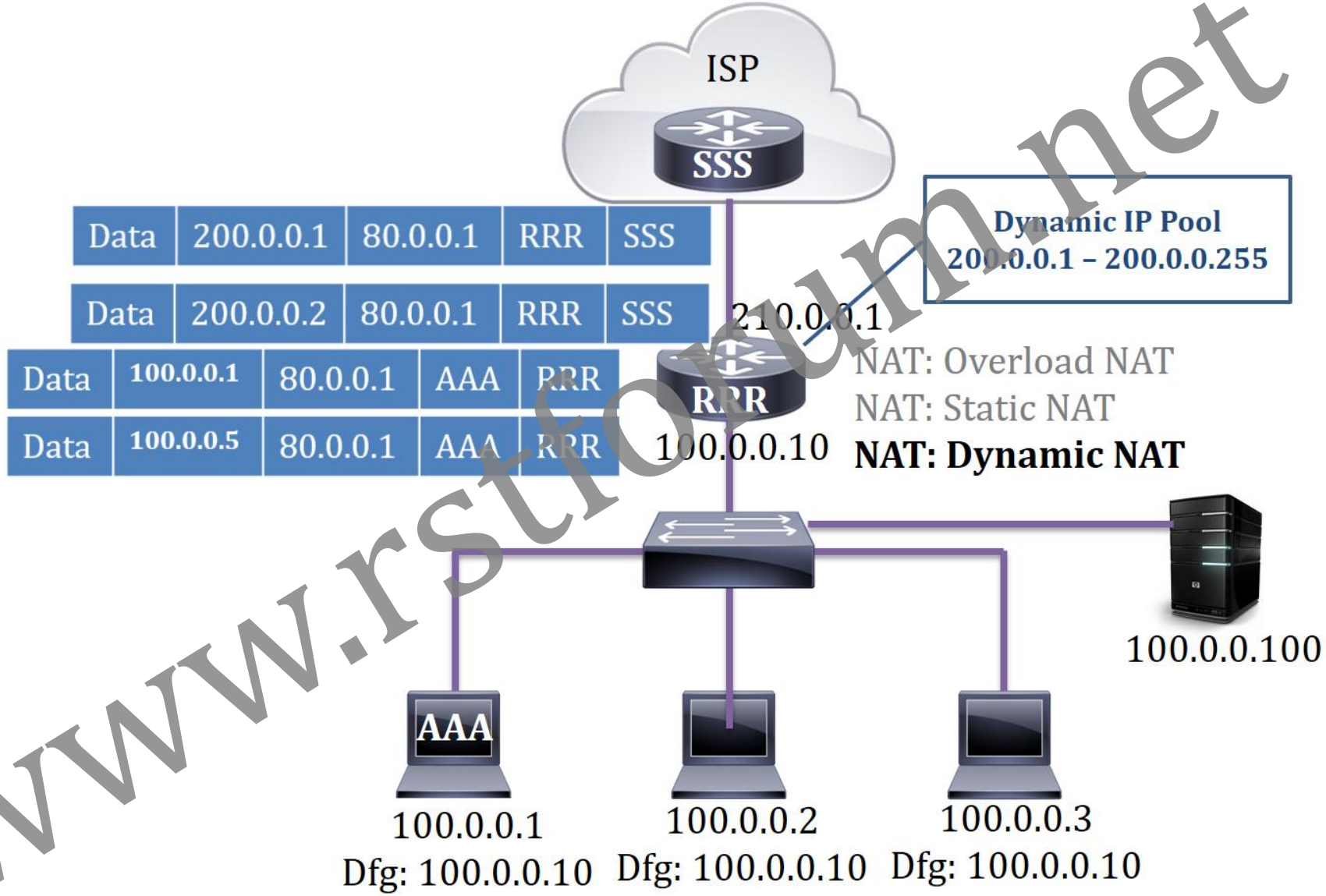

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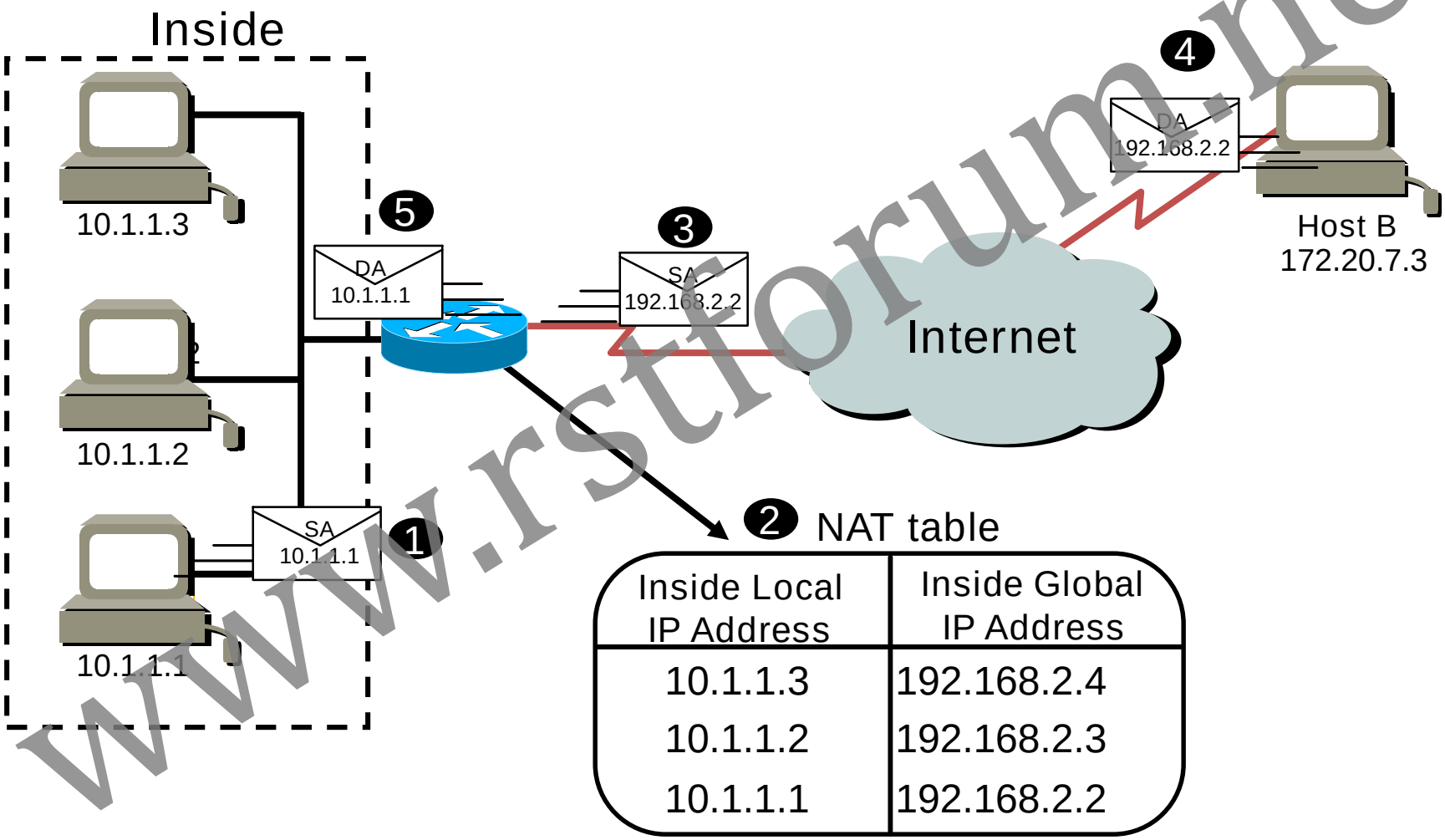
Translating Inside Local Addresses



Inside Local IP Address	Inside Global IP Address
10.1.1.3	192.168.2.4
10.1.1.2	192.168.2.3
10.1.1.1	192.168.2.2

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Static NAT Configuration

```
ip nat inside source static 10.1.1.1 192.168.2.2
!
interface Ethernet0
 ip address 10.1.1.10 255.255.255.0
 ip nat inside
!
interface Serial0
 ip address 172.16.2.1 255.255.255.0
 ip nat outside
!
```

This interface connected to the inside network.

This interface connected to the outside world.

Maps the inside local address to the inside global address.

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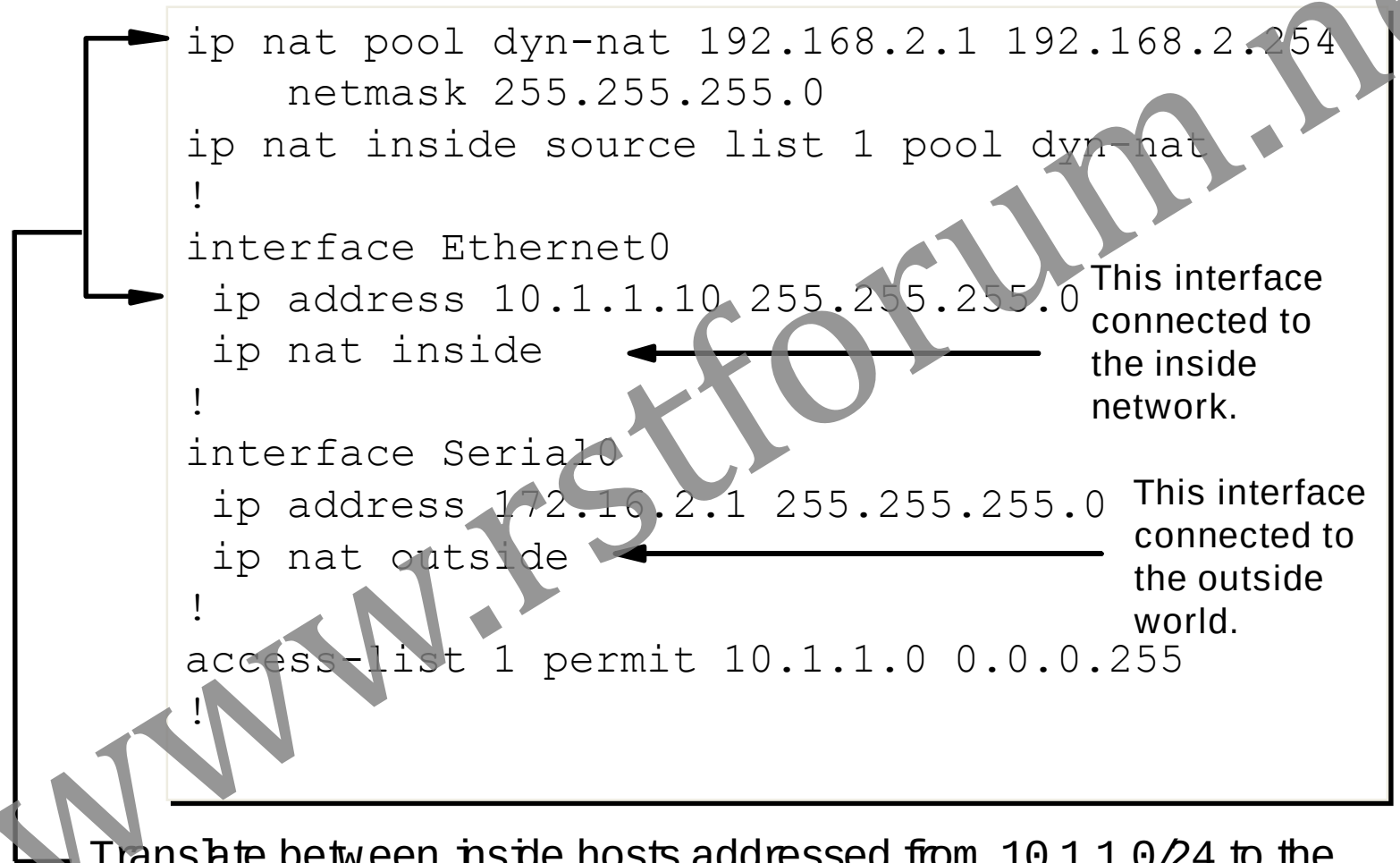
Dynamic NAT Configuration



Translate between inside hosts addressed from 10.1.1.0/24 to the globally unique 192.168.2.0/24 network.

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Configuring Inside Global Address Overloading

```
ip nat pool ovrld-nat 192.168.2.1 192.168.2.2 netmask
255.255.255.0 type rotary
ip nat inside source list 1 pool ovrld-nat overload
!
interface Ethernet0/0
 ip address 10.1.1.10 255.255.255.0
 ip nat inside
!
interface Serial0/0
 ip address 172.16.2.1 255.255.255.0
 ip nat outside
!
access-list 1 permit 10.1.1.0 0.0.0.255
```

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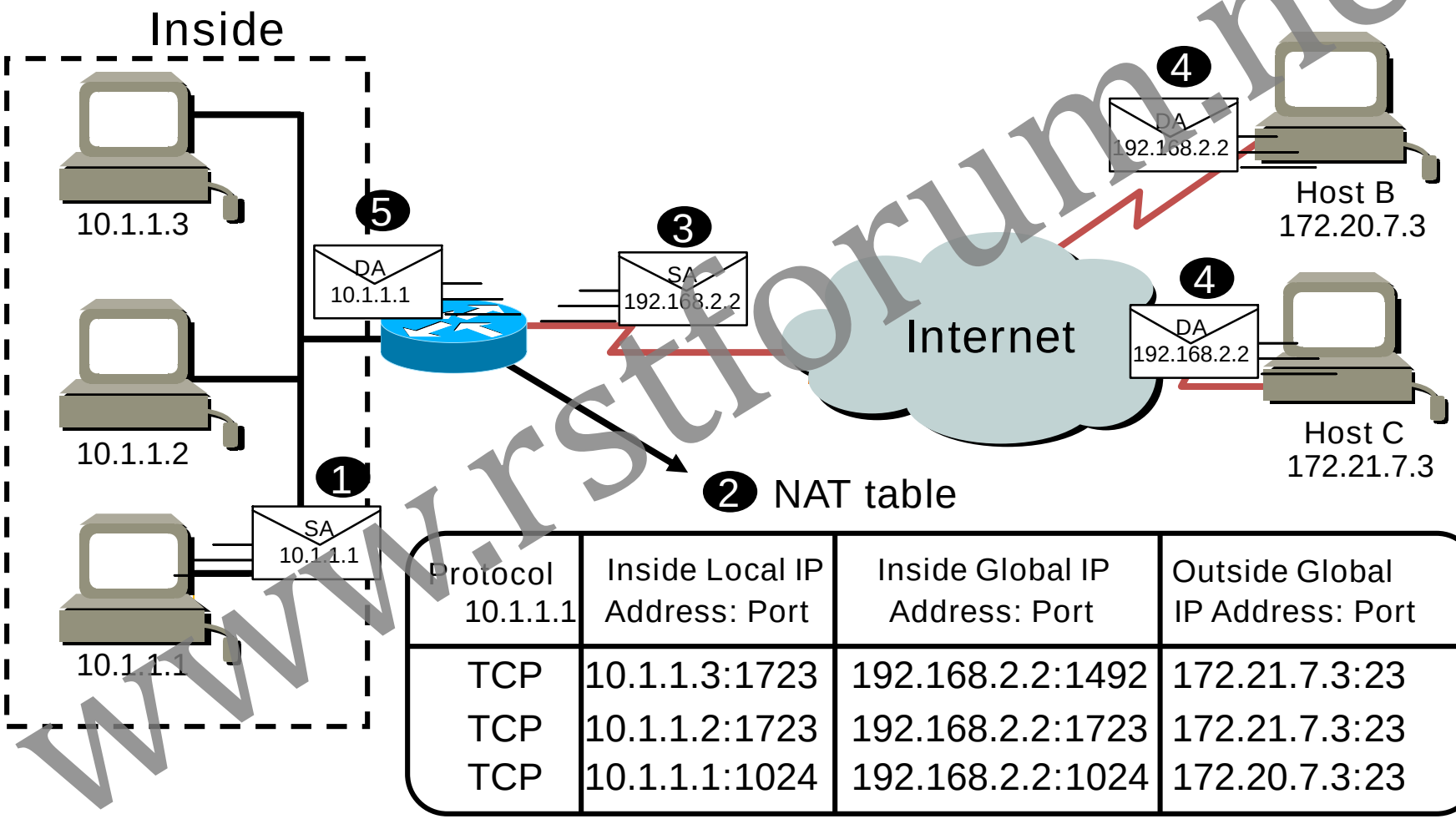
Overloading Inside Global Addresses



Protocol 10.1.1.1	Inside Local IP Address: Port	Inside Global IP Address: Port	Outside Global IP Address: Port
TCP	10.1.1.3:1723	192.168.2.2:1492	172.21.7.3:23
TCP	10.1.1.2:1723	192.168.2.2:1723	172.21.7.3:23
TCP	10.1.1.1:1024	192.168.2.2:1024	172.20.7.3:23

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