Алексеекно Иван 3 курс, 3 группа

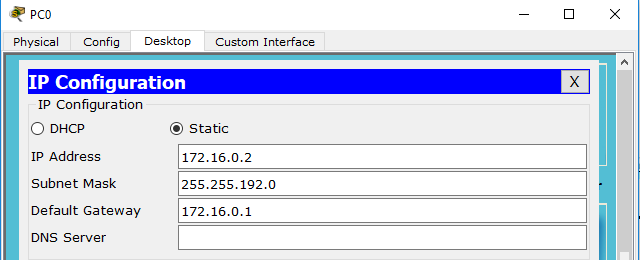
Лаб № 5

**Вариант1.**

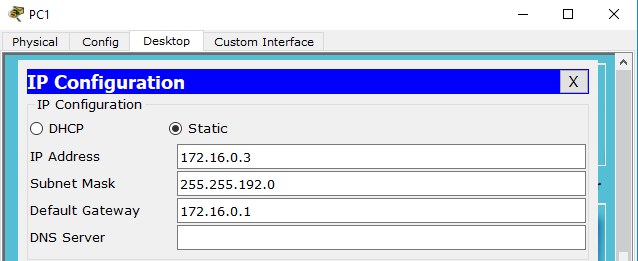
IP-адрес 172.16.0.0/16

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Требуемое число узлов | / префикс | Число узлов | Адрес  подсети | Диапазон адресов | Широковещательная рассылка |
| 10000 | 18(16382) | 10000(16384) | 172.16.0.0 | 172.16.0.1 - 172.16.63.254 | 172.16.63.255 |
| 2500 | 20(4094) | 2500(4096) | 172.16.64.0 | 172.16.64.1 – 172.16.79.254 | 172.16.79.255 |
| 500 | 23(510) | 500(512) | 172.16.80.0 | 172.16.80.1 – 172.16.81.254 | 172.16.81.255 |
| 100 | 25(126) | 100(128) | 172.16.82.0 | 172.16.82.1 – 172.16.82.126 | 172.16.82.127 |
| 2 | 30(2) | 2(4) | 172.16.82.128 | 172.16.82.129 - 172.16.82.130 | 172.16.82.131 |
| 2 | 30(2) | 2(4) | 172.16.82.132 | 172.16.82.133 - 172.16.82.134 | 172.16.82.135 |
| 2 | 30(2) | 2(4) | 172.16.82.136 | 172.16.82.137 - 172.16.82.138 | 172.16.82.139 |

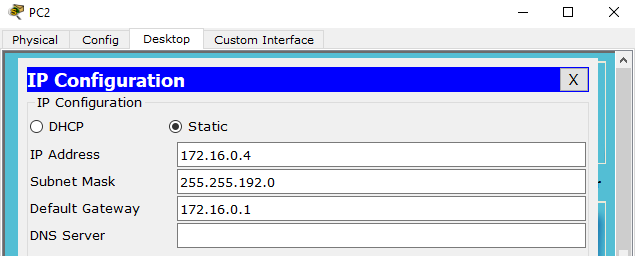
**PC0**



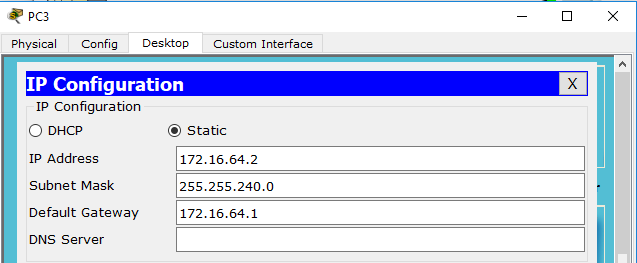
**PC1**

****

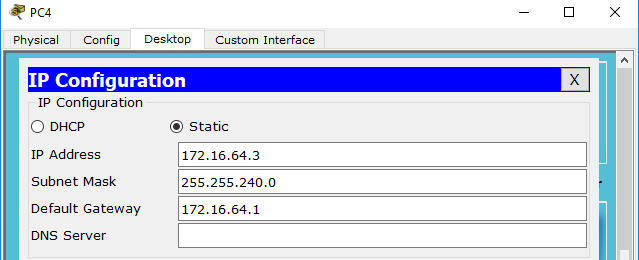
**PC2**

****

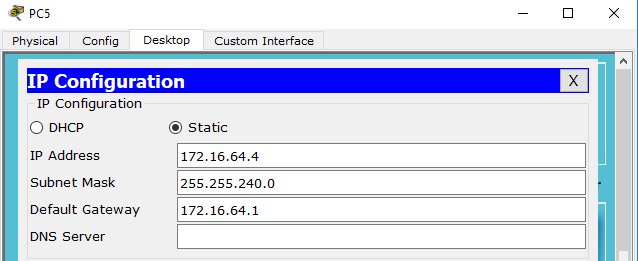
**PC3**

****

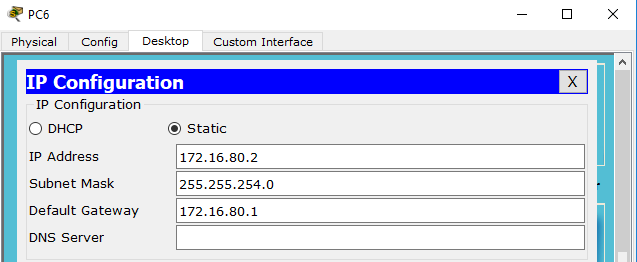
**PC4**

****

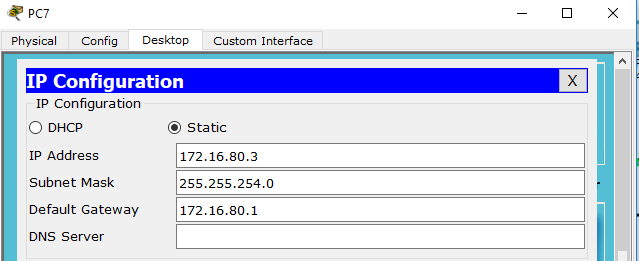
**PC5**

****

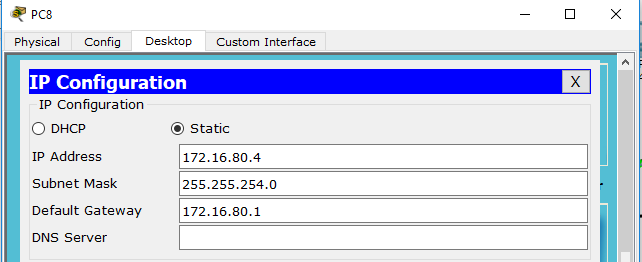
**PC6**

****

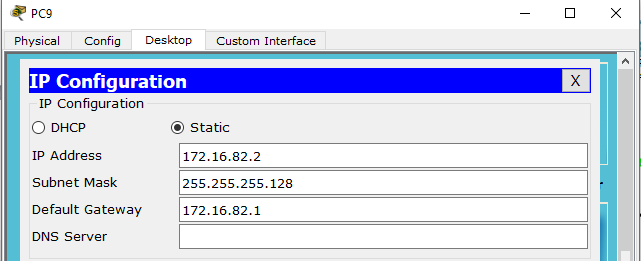
**PC7**

****

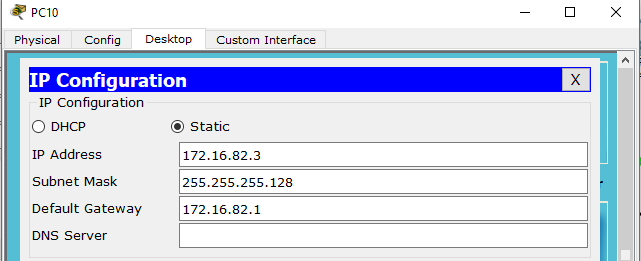
**PC8**

****

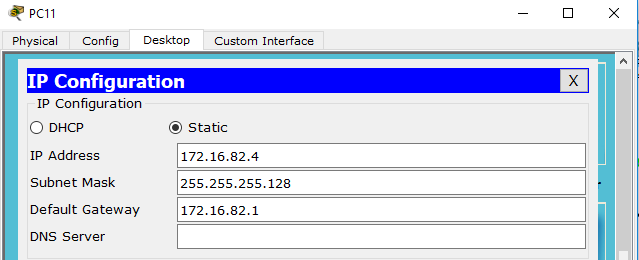
**PC9**

****

**PC10**

****

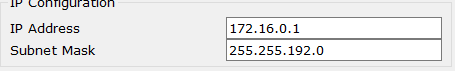
**PC11**

****

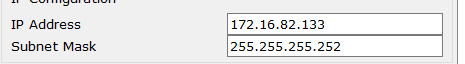
**Interfaces:**

**R4:**

**F0/0**

****

**Serial 0/0**

****

**R2:**

**F0/0**

****

**Serial 0/0**

****

**R1:**

**Serial 0/0**

****

**Serial 0/1**

****

**Serial 0/2**

****

**R3:**

**F0/0**

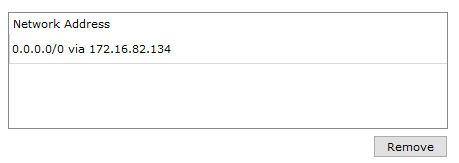
****

**Serial 0/0**

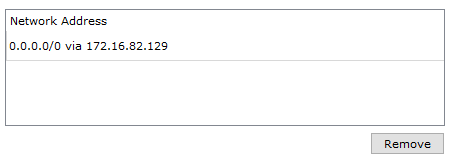
****

**Настройка статистических маршрутов:**

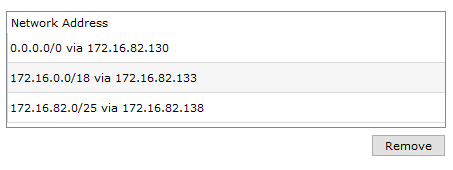
**R4:**

****

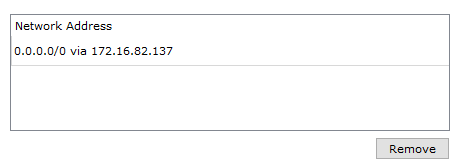
**R2:**

****

**R1:**

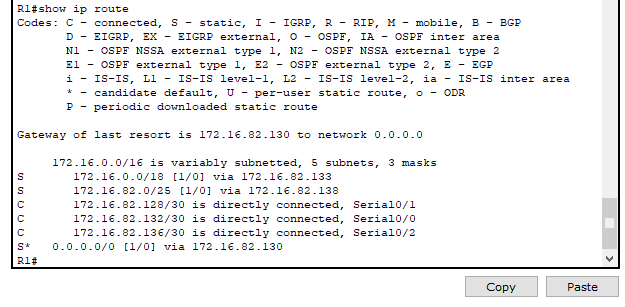
****

**R3:**

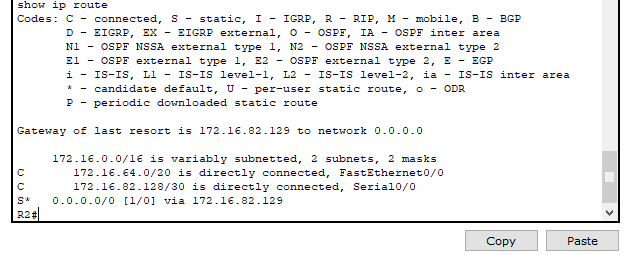
****

**Show ip route:**

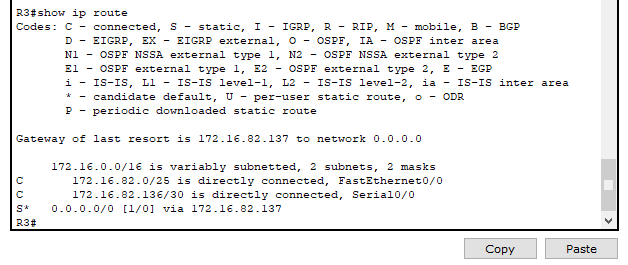
**R1:**

****

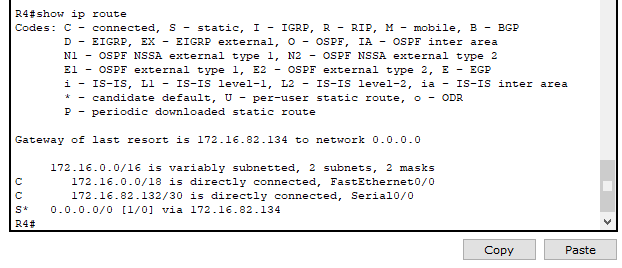
**R2:**

****

**R3:**

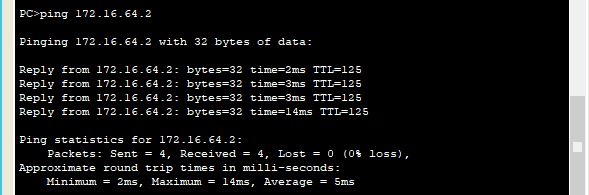
****

**R4:**

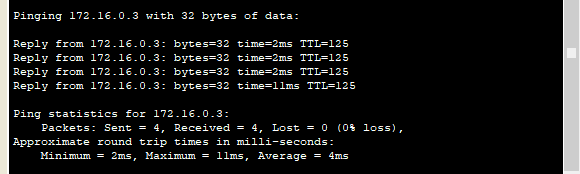
****

**Checking ping:**

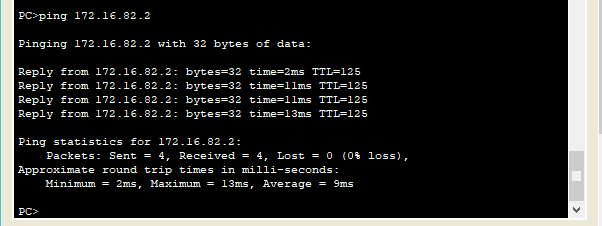
**PC0 -> PC3**

****

**PC4 -> PC3**

****

**PC0 -> PC 9**

****