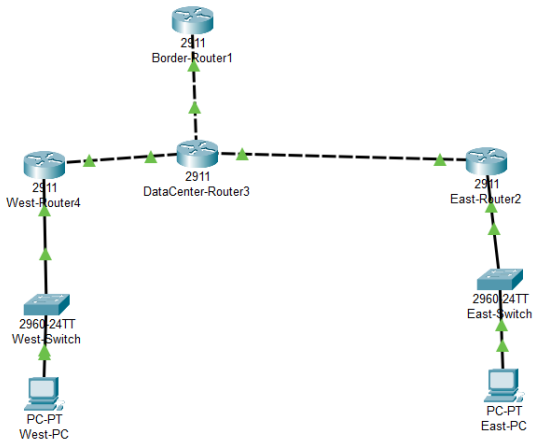
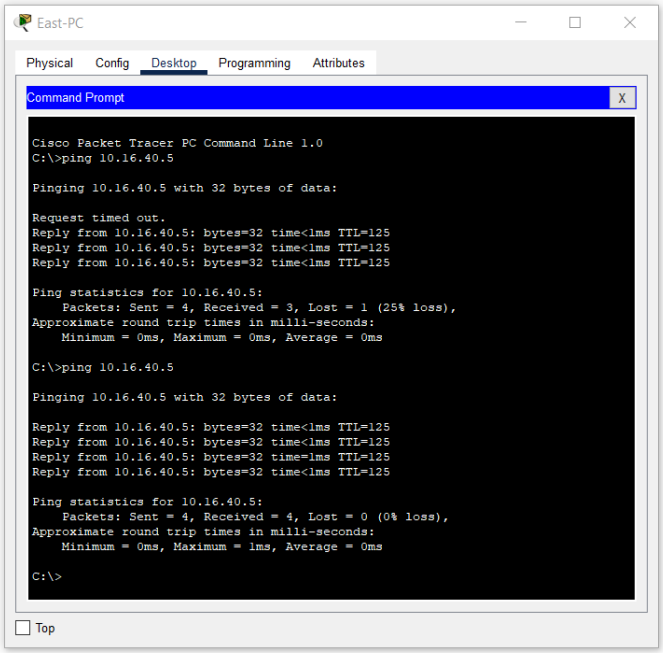
6. Submit Screenshots:

- **Successful ping of East and West PC**





- **Output of "sh ip route" on Data Center Router (this should show that all of the networks are in the table, with East and West acquired through OSPF)**

```
David-DataCenter-R3#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C       10.16.1.0/29 is directly connected, GigabitEthernet0/2
L       10.16.1.2/32 is directly connected, GigabitEthernet0/2
C       10.16.1.20/30 is directly connected, GigabitEthernet0/0
L       10.16.1.22/32 is directly connected, GigabitEthernet0/0
C       10.16.1.32/30 is directly connected, GigabitEthernet0/1
L       10.16.1.33/32 is directly connected, GigabitEthernet0/1
O       10.16.20.0/24 [110/2] via 10.16.1.21, 00:07:52, GigabitEthernet0/0
O       10.16.40.0/24 [110/2] via 10.16.1.34, 00:05:24, GigabitEthernet0/1

David-DataCenter-R3#
```

- **Output of "sh ip route" on East Router**

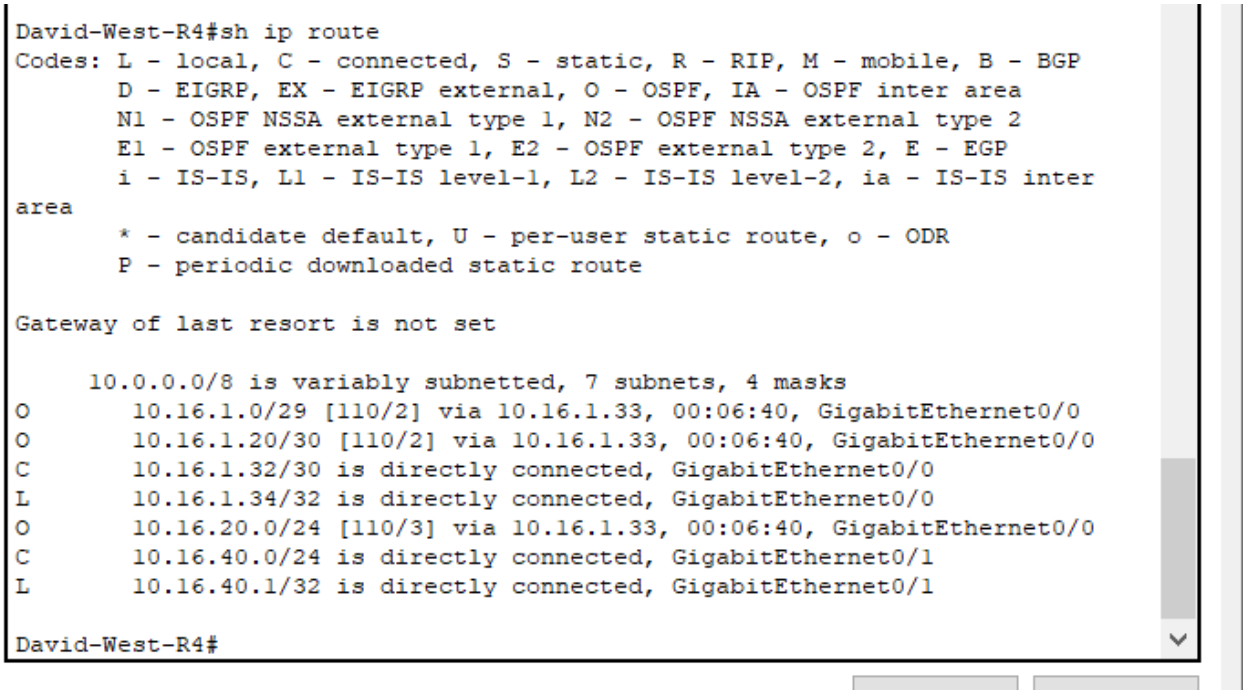
```
David-East-R2#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 7 subnets, 4 masks
O       10.16.1.0/29 [110/2] via 10.16.1.22, 00:08:23, GigabitEthernet0/0
C       10.16.1.20/30 is directly connected, GigabitEthernet0/0
L       10.16.1.21/32 is directly connected, GigabitEthernet0/0
O       10.16.1.32/30 [110/2] via 10.16.1.22, 00:07:51, GigabitEthernet0/0
C       10.16.20.0/24 is directly connected, GigabitEthernet0/1
L       10.16.20.1/32 is directly connected, GigabitEthernet0/1
O       10.16.40.0/24 [110/3] via 10.16.1.22, 00:05:55, GigabitEthernet0/0

David-East-R2#
```

- **Output of "sh ip route" on West Router**



```
David-West-R4#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 7 subnets, 4 masks
O       10.16.1.0/29 [110/2] via 10.16.1.33, 00:06:40, GigabitEthernet0/0
O       10.16.1.20/30 [110/2] via 10.16.1.33, 00:06:40, GigabitEthernet0/0
C       10.16.1.32/30 is directly connected, GigabitEthernet0/0
L       10.16.1.34/32 is directly connected, GigabitEthernet0/0
O       10.16.20.0/24 [110/3] via 10.16.1.33, 00:06:40, GigabitEthernet0/0
C       10.16.40.0/24 is directly connected, GigabitEthernet0/1
L       10.16.40.1/32 is directly connected, GigabitEthernet0/1

David-West-R4#
```