

OSPF

Open Shortest Path First

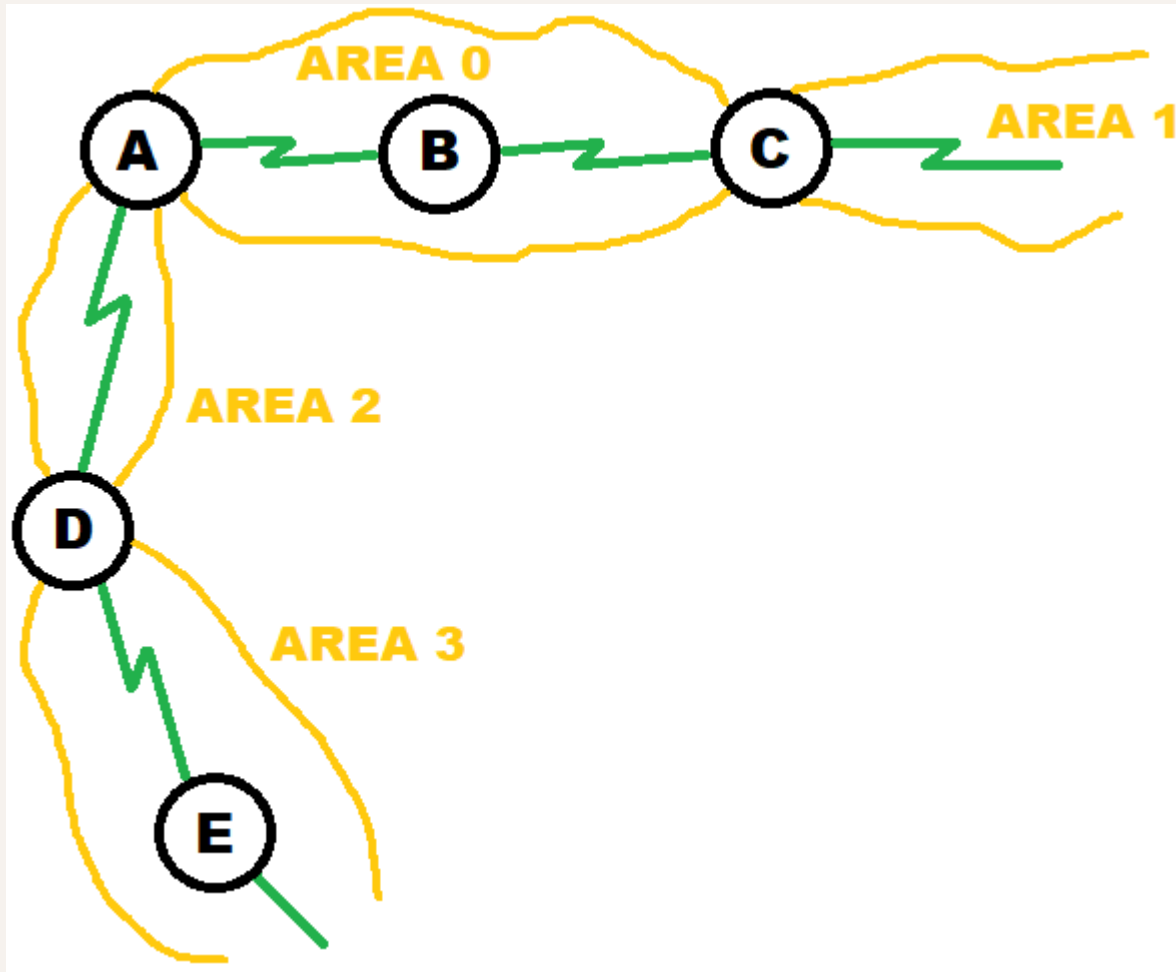
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OSPF Area Virtual Link

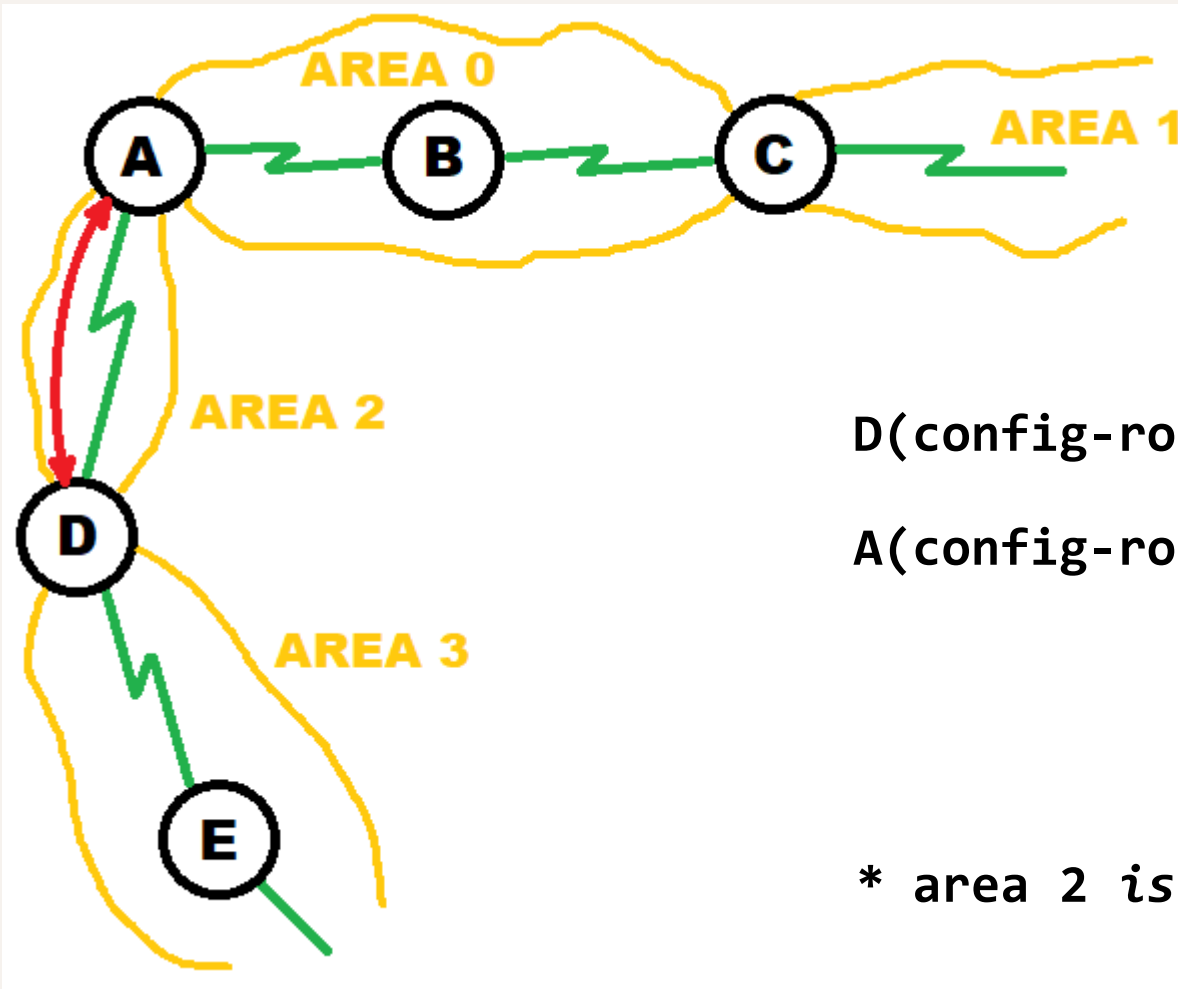
Each OSPF area ***must be linked with the backbone area*** – if they're not directly connected, then a **virtual link** must be established.

The virtual link is configured on an Area Border Router (ABR), where a loopback IP of the ABR connected to ***area 0*** is added. Same is configured on the remote ABR – a virtual link is established from the ***area 0*** ABR to the remote area ABR.

OSPF Area Virtual Link - Example



OSPF Area Virtual Link - Example



```
D(config-router)#area 2 virtual-link A_loop_IP
```

```
A(config-router)#area 2 virtual-link D_loop_IP
```

* area 2 is a "transit area"

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