



OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 1



OSPF Problem Statement

- + R4 and R5 are unable to exchange OSPF updates over the DMVPN network. Find the problem and modify the network so that R4 and R5 have reachability to each others' Loopback0 interfaces.





OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 2



OSPF Problem Statement

- + R1 and R5 are unable to exchange OSPF updates over the DMVPN network. Find the problem and modify the network so that R1 and R5 have reachability to each others' Loopback0 interfaces.





OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 3



OSPF Problem Statement

- + R2 and R5 are unable to exchange OSPF updates over the DMVPN network. Find the problem and modify the network so that R2 and R5 have reachability to each others' Loopback0 interfaces.





OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 4



OSPF Problem Statement

- + R7 and R9 are unable to exchange OSPF updates. Find the problem and modify the network so that R9 has reachability to the rest of the OSPF topology.





OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 5



OSPF Problem Statement

- + R1 and R5 are unable to exchange OSPF updates. Find the problem and modify the network so that R1 has reachability to the rest of the OSPF topology.





OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 6



OSPF Problem Statement

- + R8 and R10 are unable to exchange OSPF updates. Find the problem and modify the network so that R10 has reachability to the rest of the OSPF topology.





OSPF Deep Dive

Troubleshooting OSPF Adjacencies - Part 7



OSPF Problem Statement

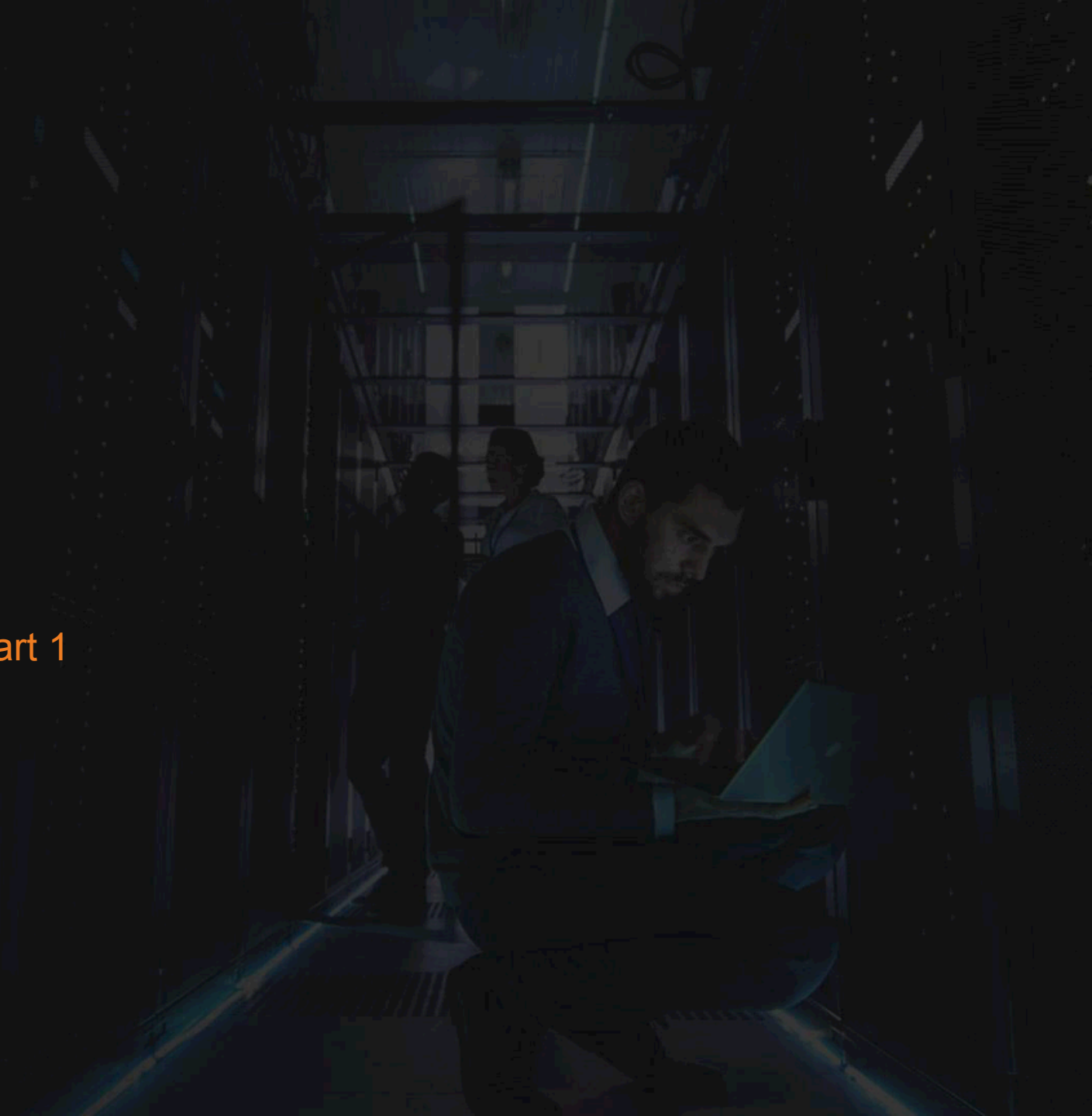
- + R1 is unable to reach destinations over the DMVPN network. Find the problem and modify the network so that R1 has reachability to the rest of the DMVPN topology.





OSPF Deep Dive

Troubleshooting OSPF Advertisements - Part 1



OSPF Problem Statement

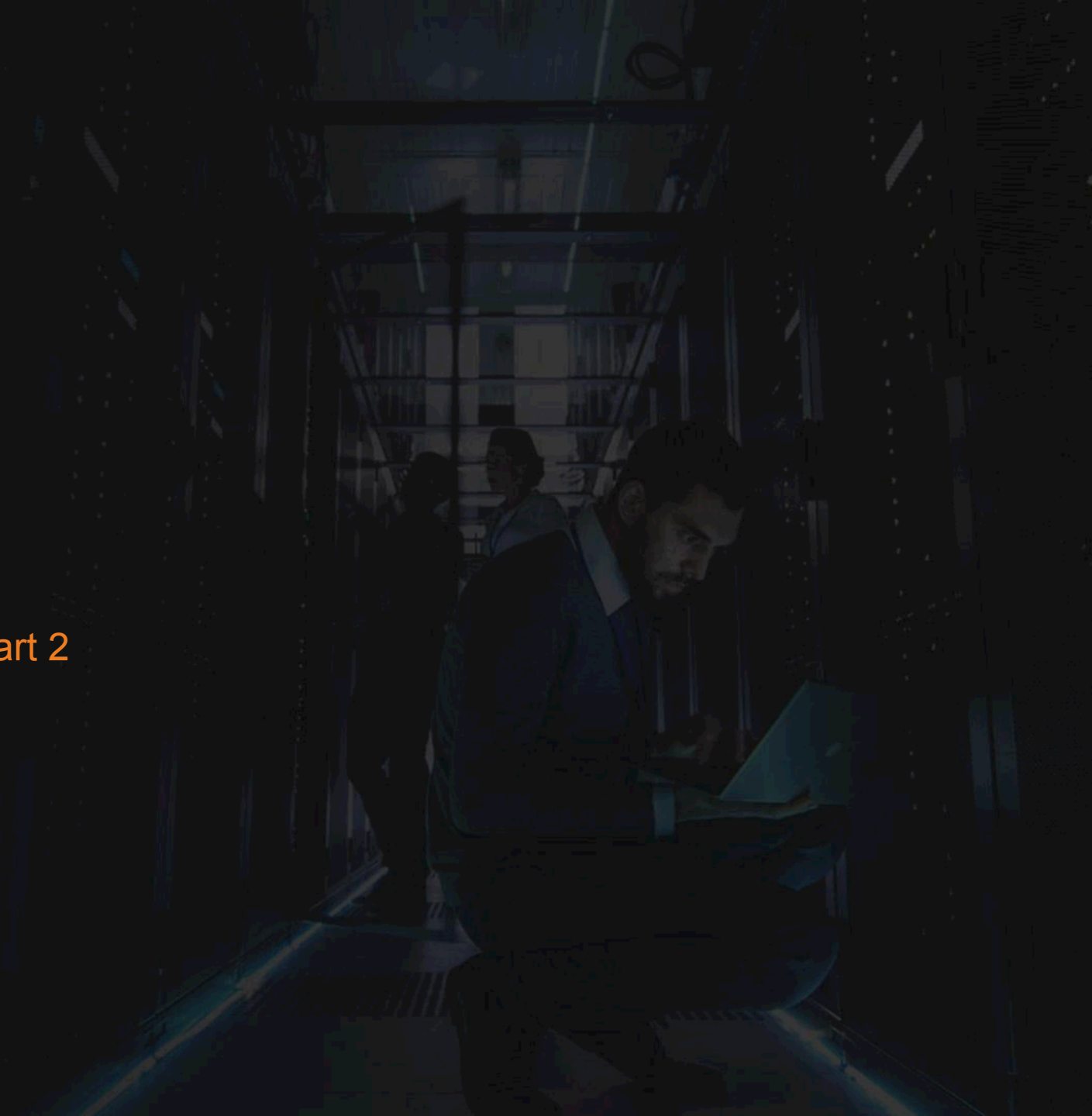
- + R10 is unable to reach the R9's Loopback0 network. Find the problem and modify the network so that full reachability is obtained from R10 to R9.





OSPF Deep Dive

Troubleshooting OSPF Advertisements - Part 2



OSPF Problem Statement

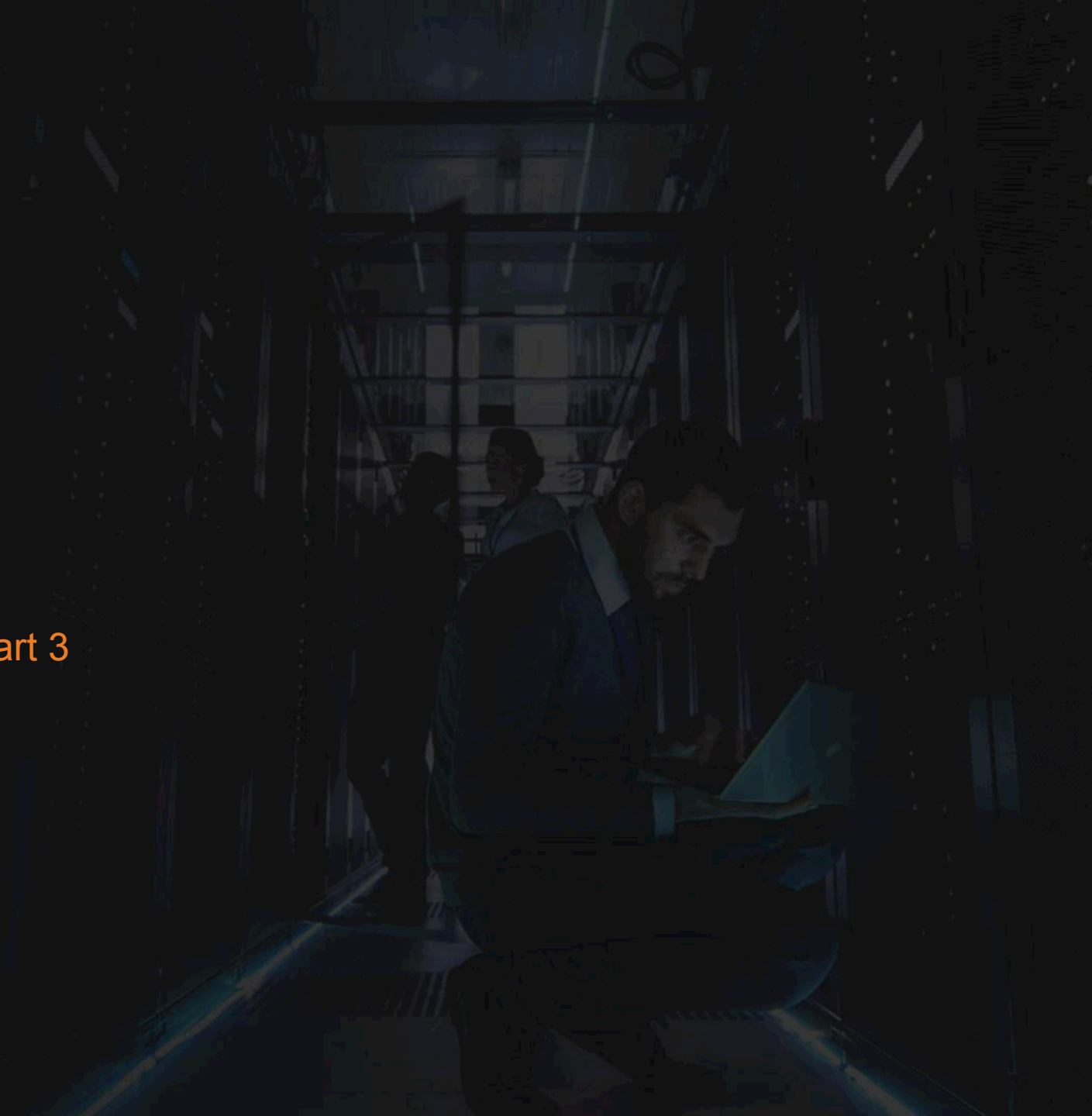
- + Reachability problems have been reported over the DMVPN network. Find the problem and modify the network so that full reachability is obtained over the DMVPN.





OSPF Deep Dive

Troubleshooting OSPF Advertisements - Part 3



OSPF Problem Statement

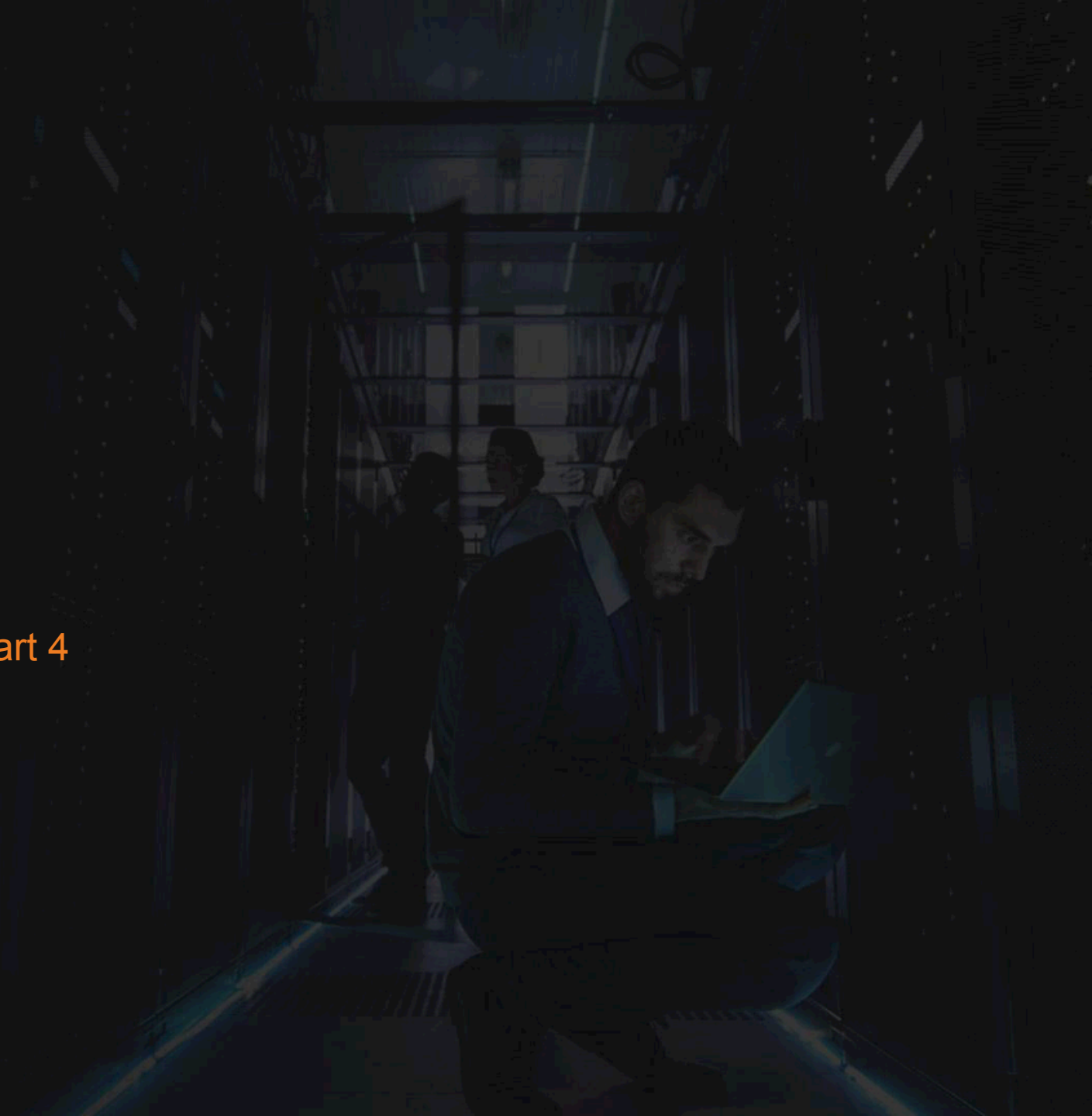
- + R9 is unable to reach the Loopback0 network of R10. Find the problem and modify the network so that reachability is obtained from R9 to R10.





OSPF Deep Dive

Troubleshooting OSPF Advertisements - Part 4



OSPF Problem Statement

- + R10 is unable to reach R9's Loopback0. Modify the network so that reachability is obtained between R9 and R10.





OSPF Deep Dive

Troubleshooting OSPF Advertisements - Part 5

OSPF Problem Statement

- + R9's Loopback0 network should not be reachable outside of area 1.
Modify the network so that only devices in area 1 are able to reach R9's Loopback0 network.





OSPF Deep Dive

Troubleshooting OSPF Path Selection – Part 1



OSPF Problem Statement

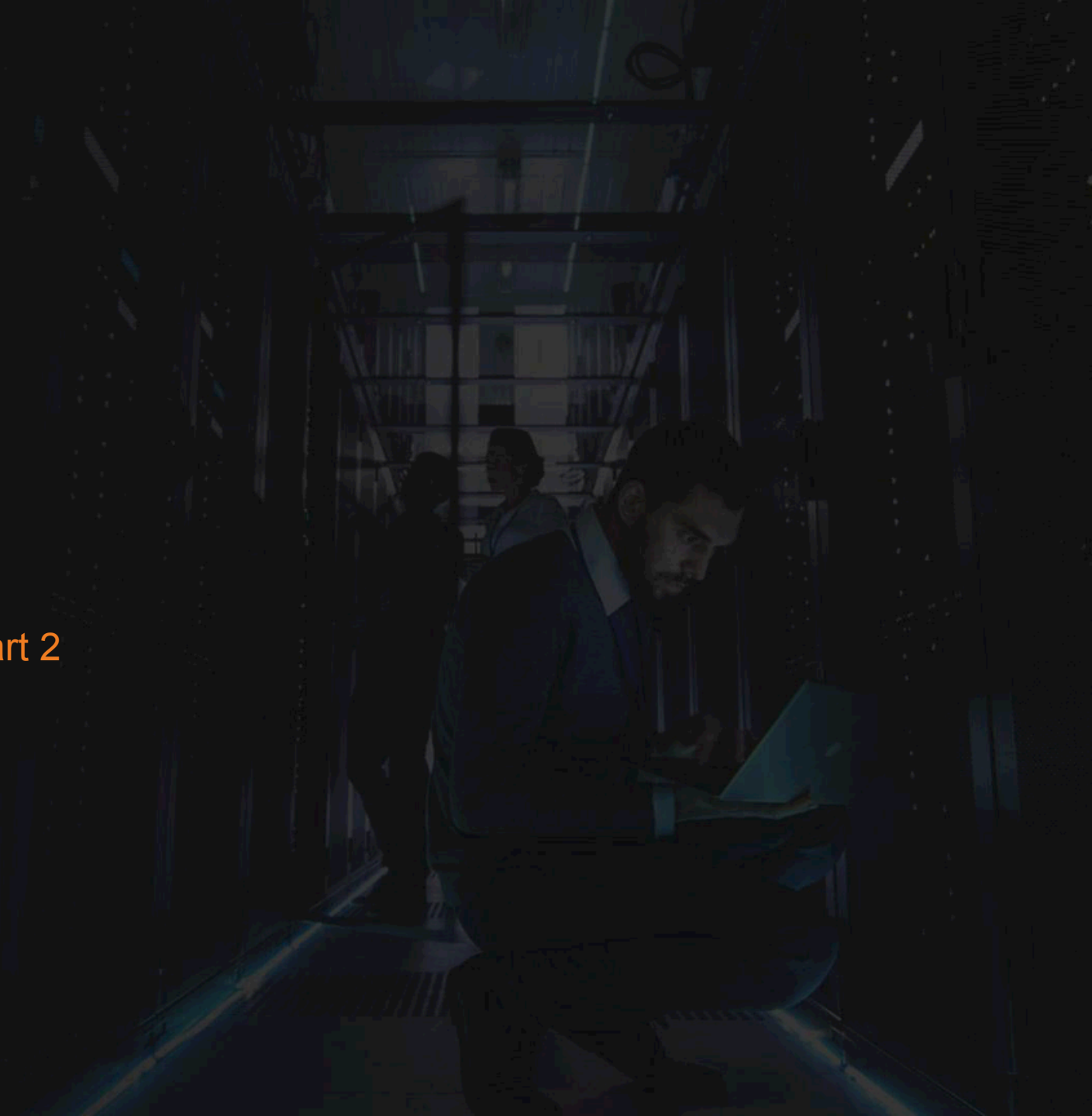
- + R10 can currently only reach R7's Loopback0 interface by transiting through R6. Modify the network so that the preferred path for R10 to reach R7's Loopback is through R3.





OSPF Deep Dive

Troubleshooting OSPF Path Selection – Part 2



OSPF Problem Statement

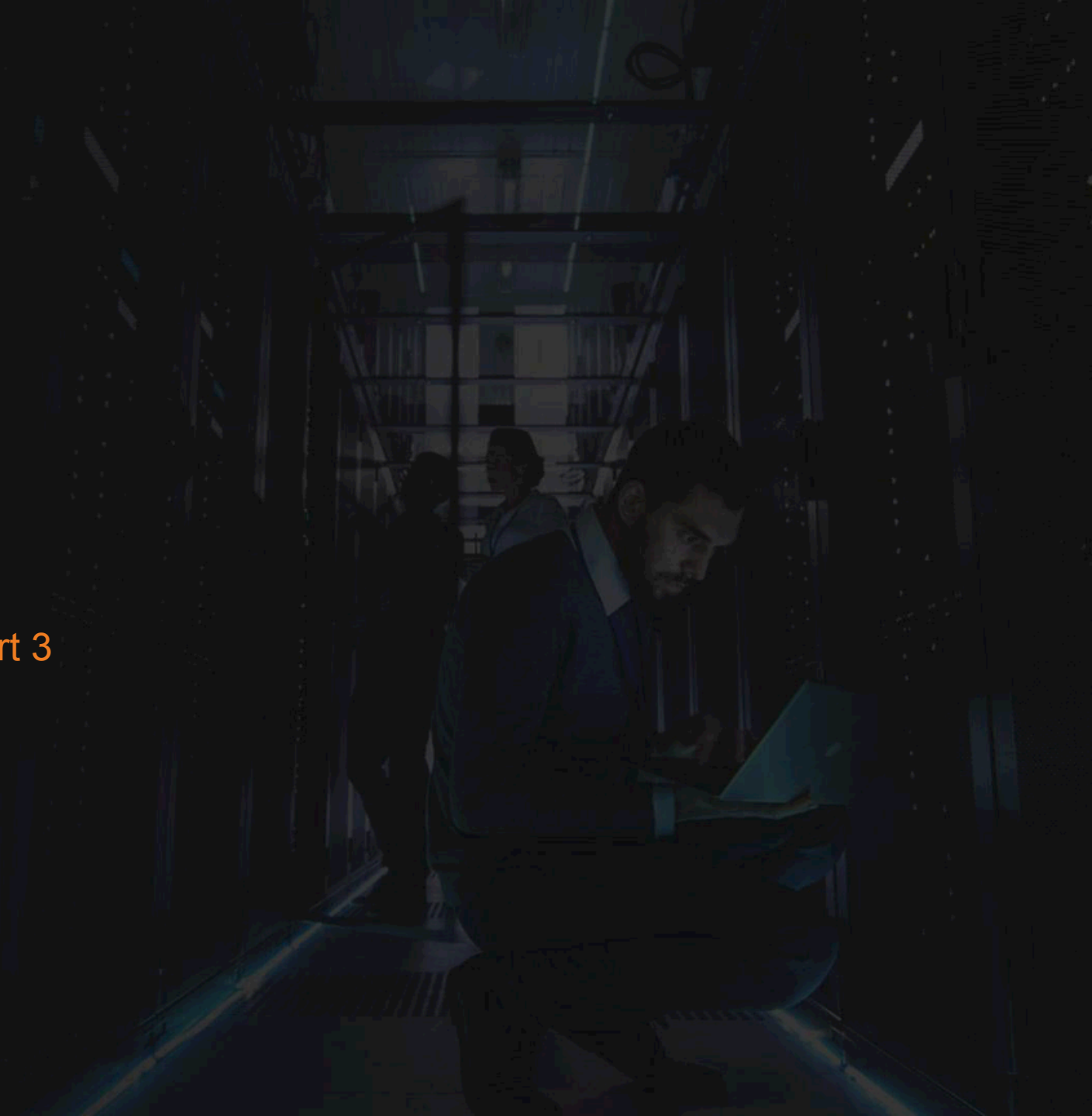
- + R10 can only reach the shared 155.1.67.0/24 segment between R6 and R7 via transiting through R6. Modify the network so that R3 is the preferred exit point for R10 to reach this prefix.





OSPF Deep Dive

Troubleshooting OSPF Path Selection - Part 3



OSPF Problem Statement

- + R9 wants to use R6 as the preferred exit point to reach R10. Modify the network so that R9 uses R6 to reach R10, but if R6 is down it is still able to reach R10 via transiting through R3.

