



# MPLS Deep Dive

Troubleshooting LDP - Part 1



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting LDP - Part 2





# MPLS Problem Statement

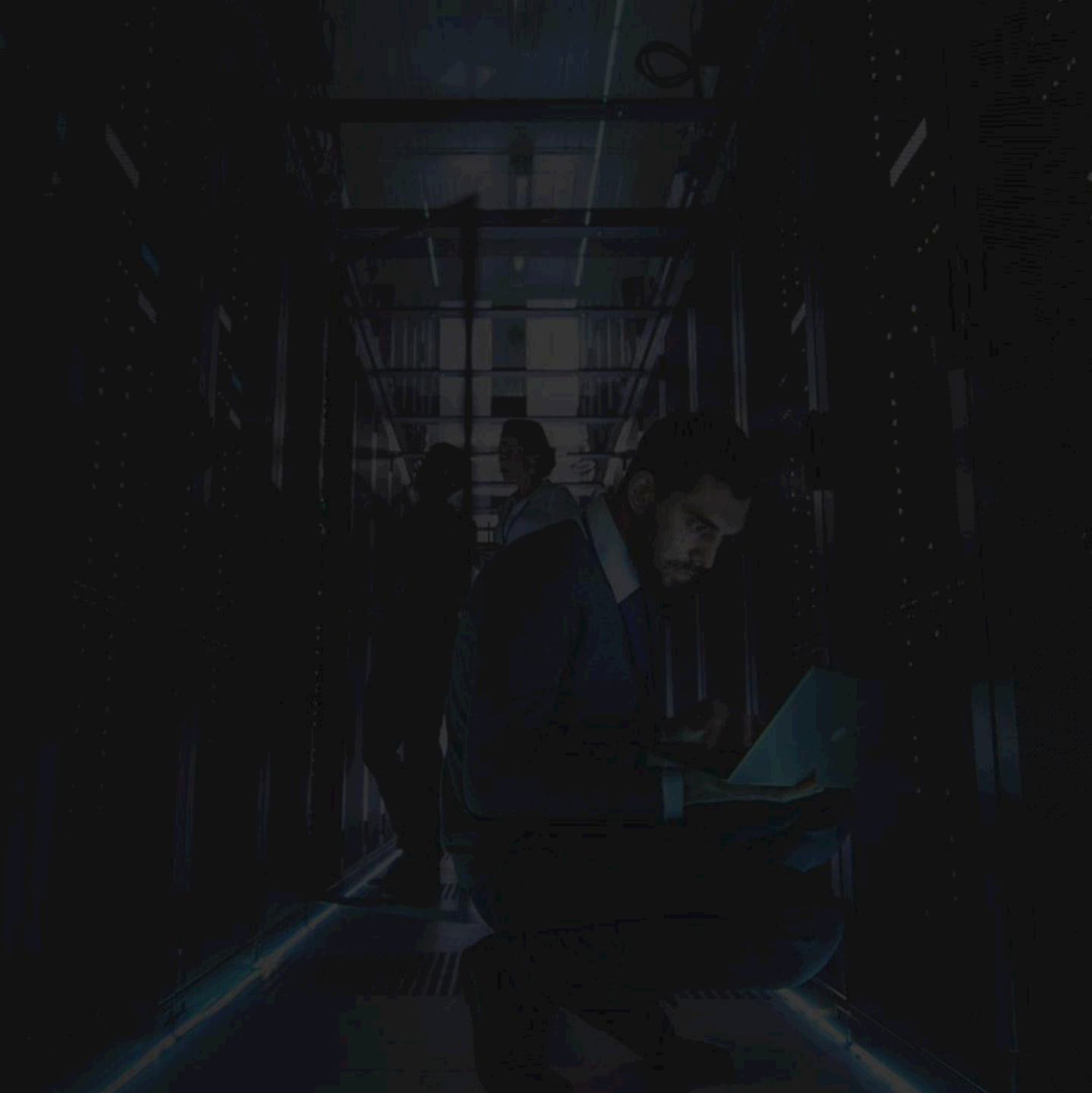
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting LDP - Part 3



# MPLS Problem Statement

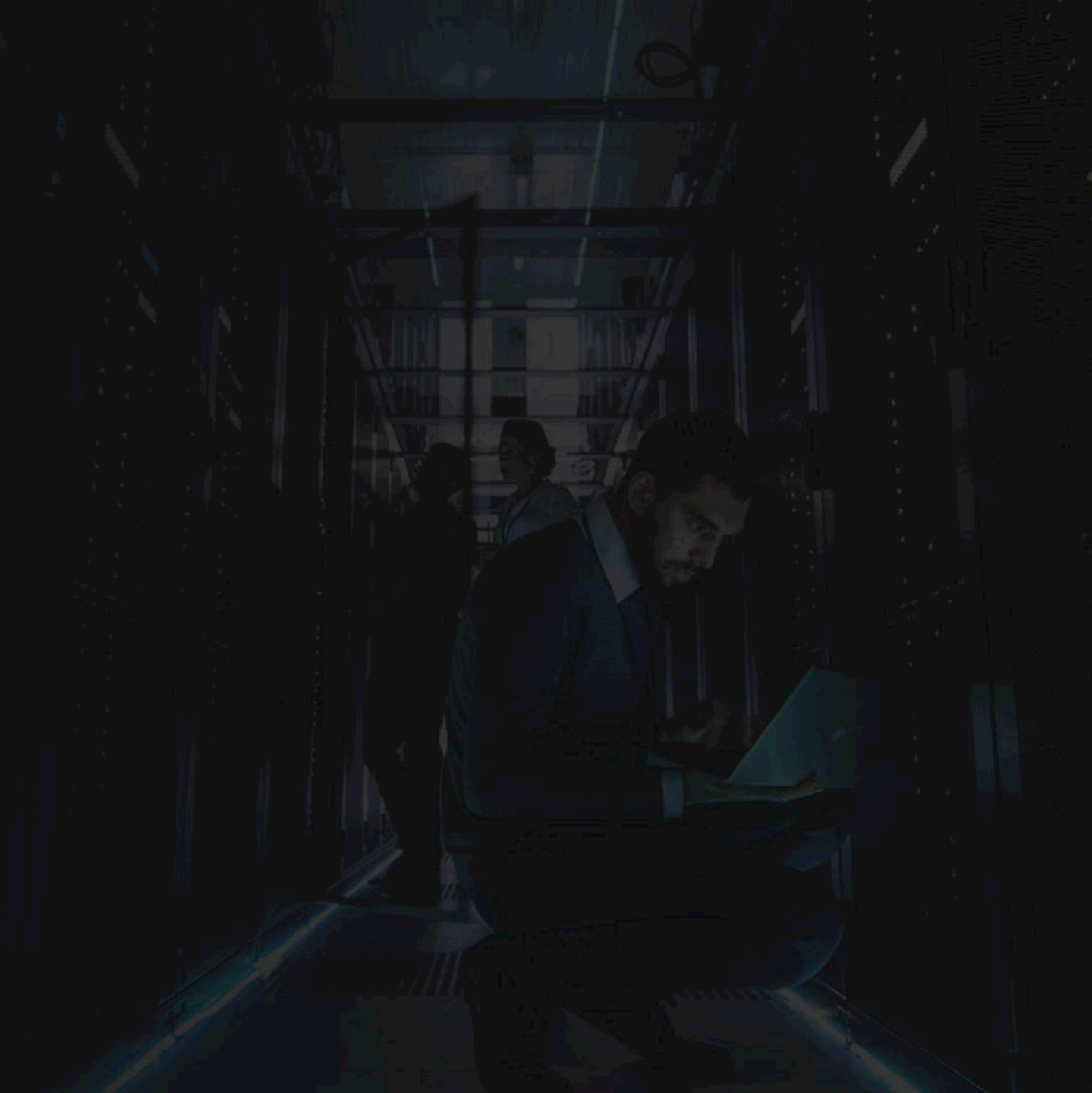
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting LDP - Part 4



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.







# MPLS Deep Dive

Troubleshooting LDP - Part 5



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting LDP - Part 6



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting LDP - Part 7



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.

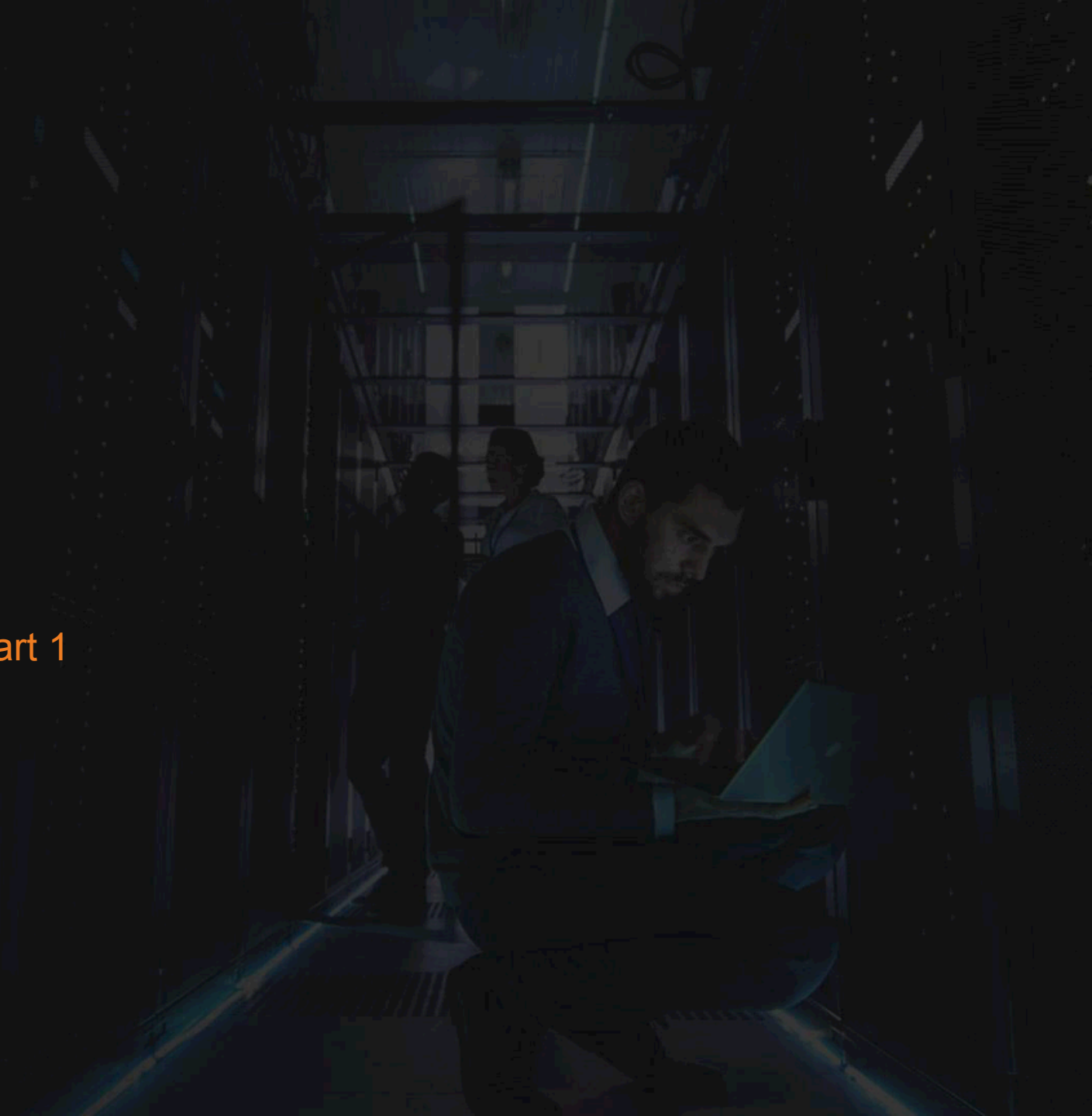






# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 1



# MPLS Problem Statement

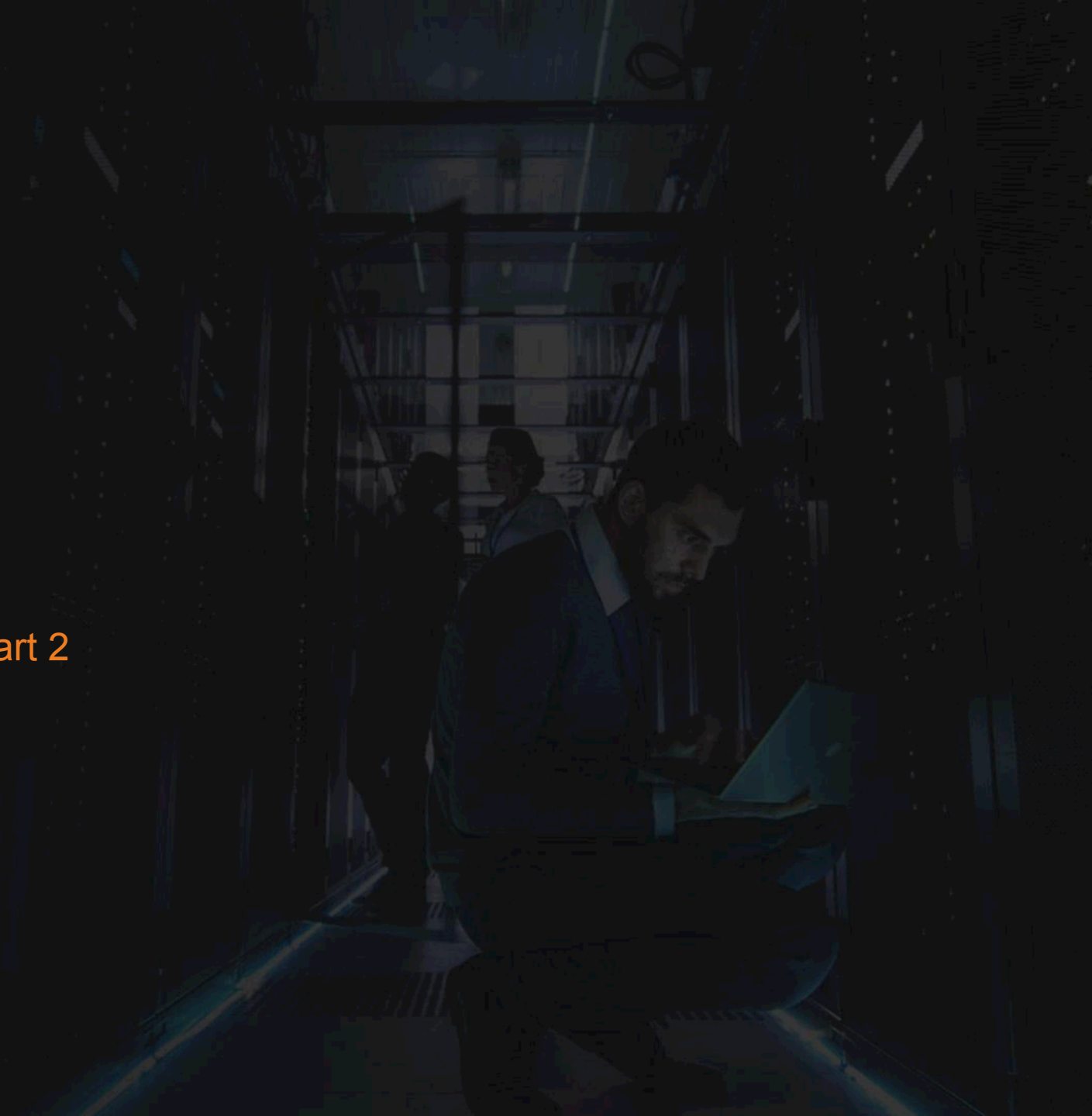
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 2



# MPLS Problem Statement

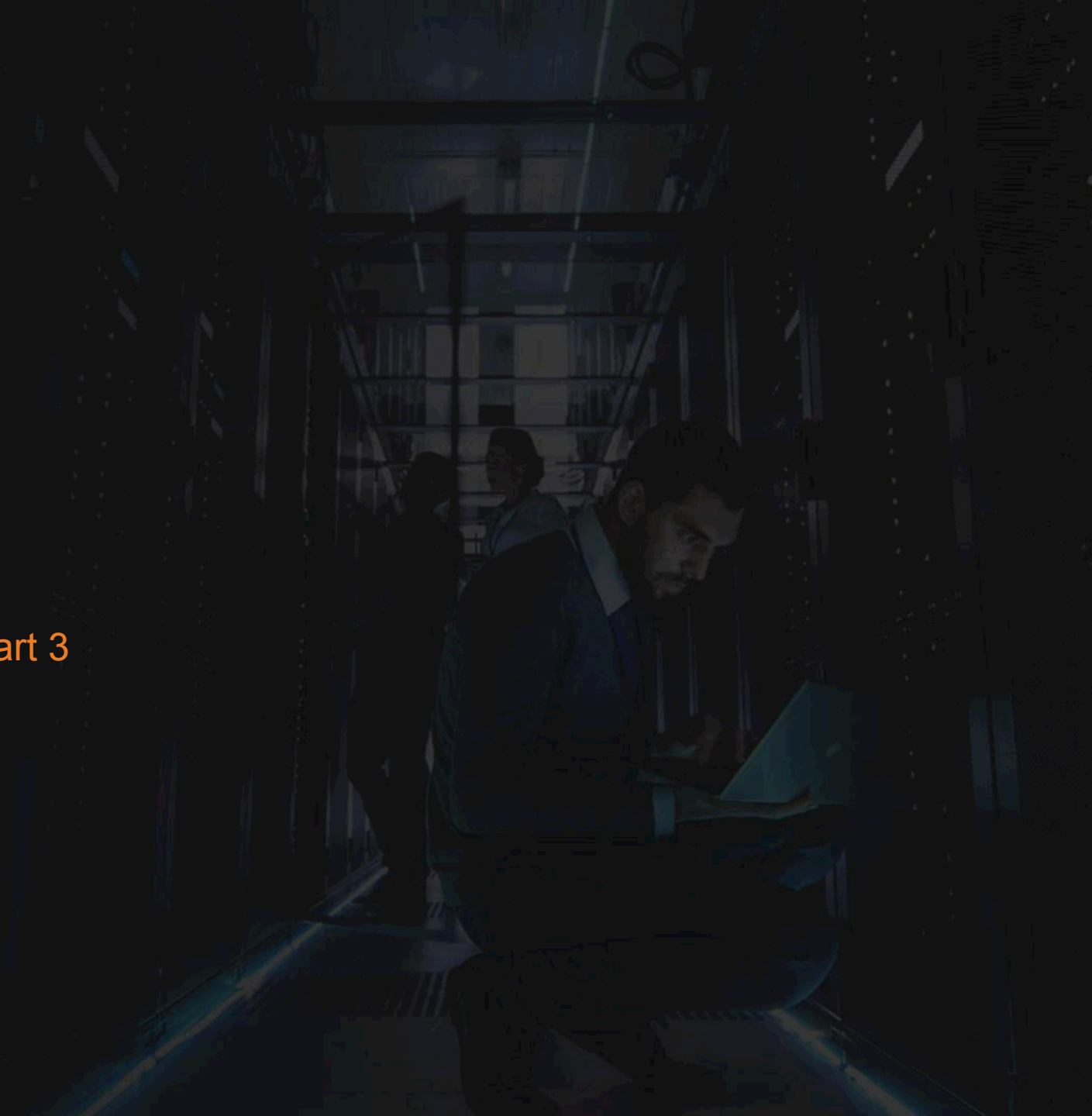
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 3





# MPLS Problem Statement

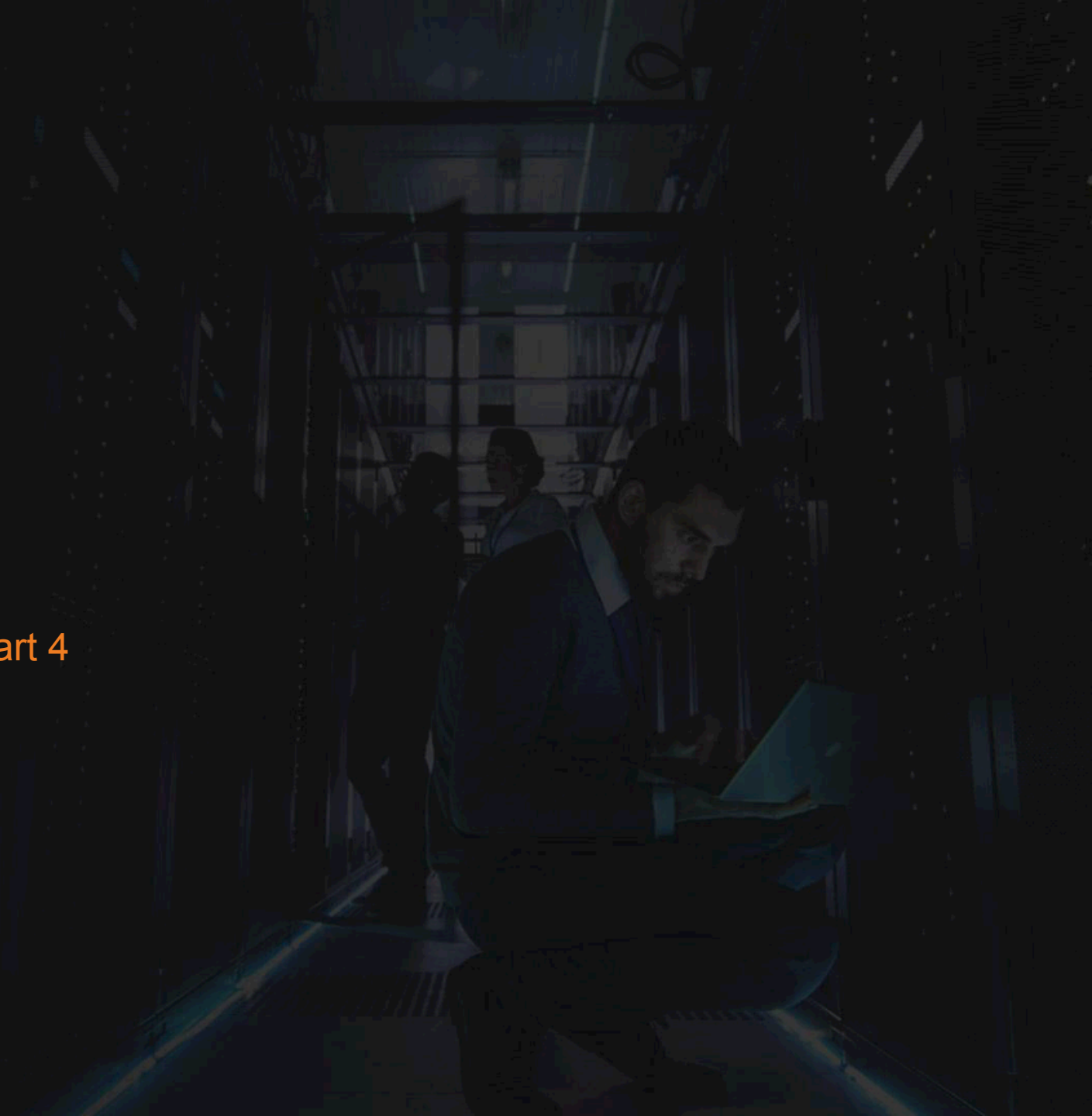
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 4



# MPLS Problem Statement

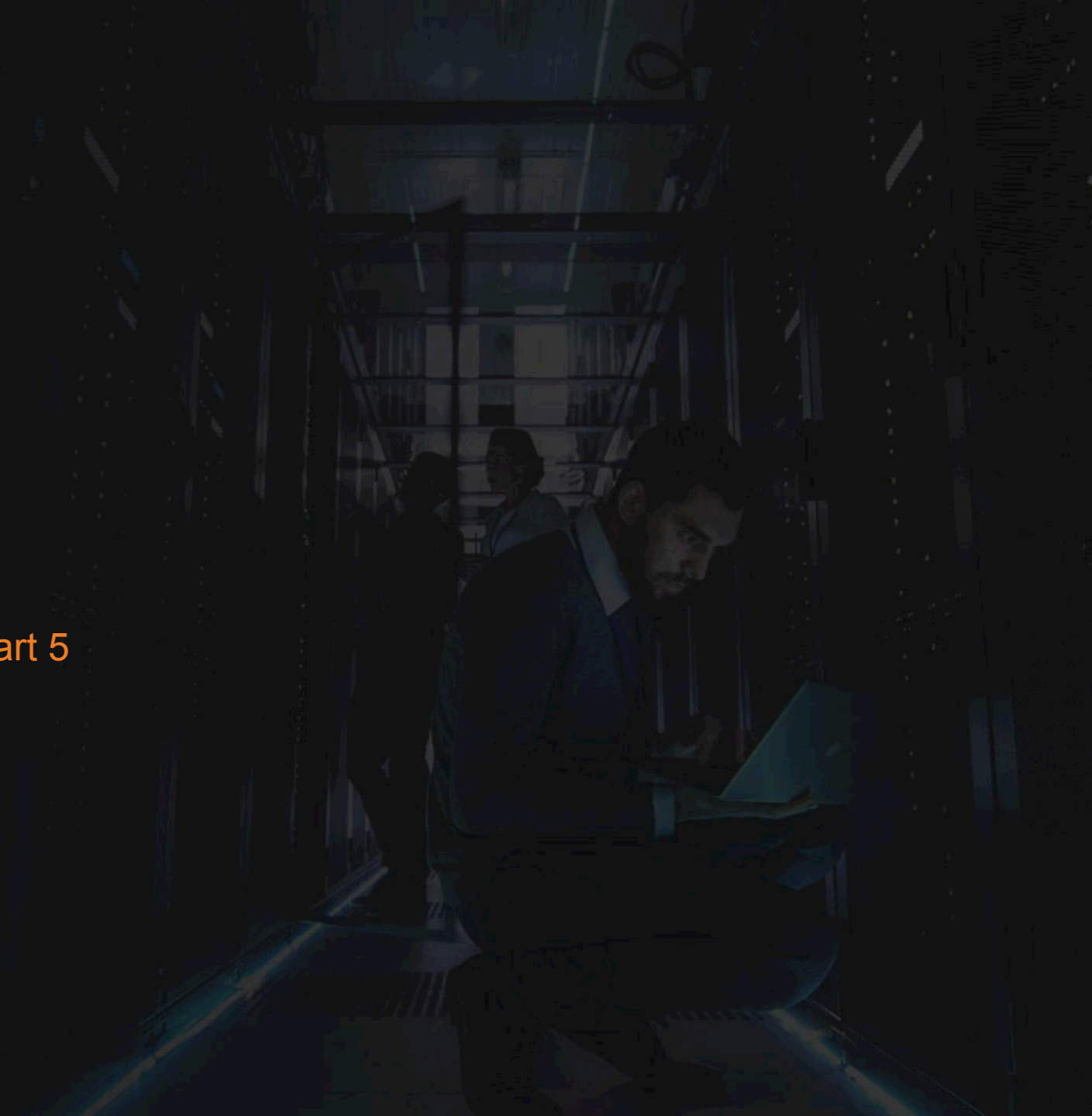
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 5



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.

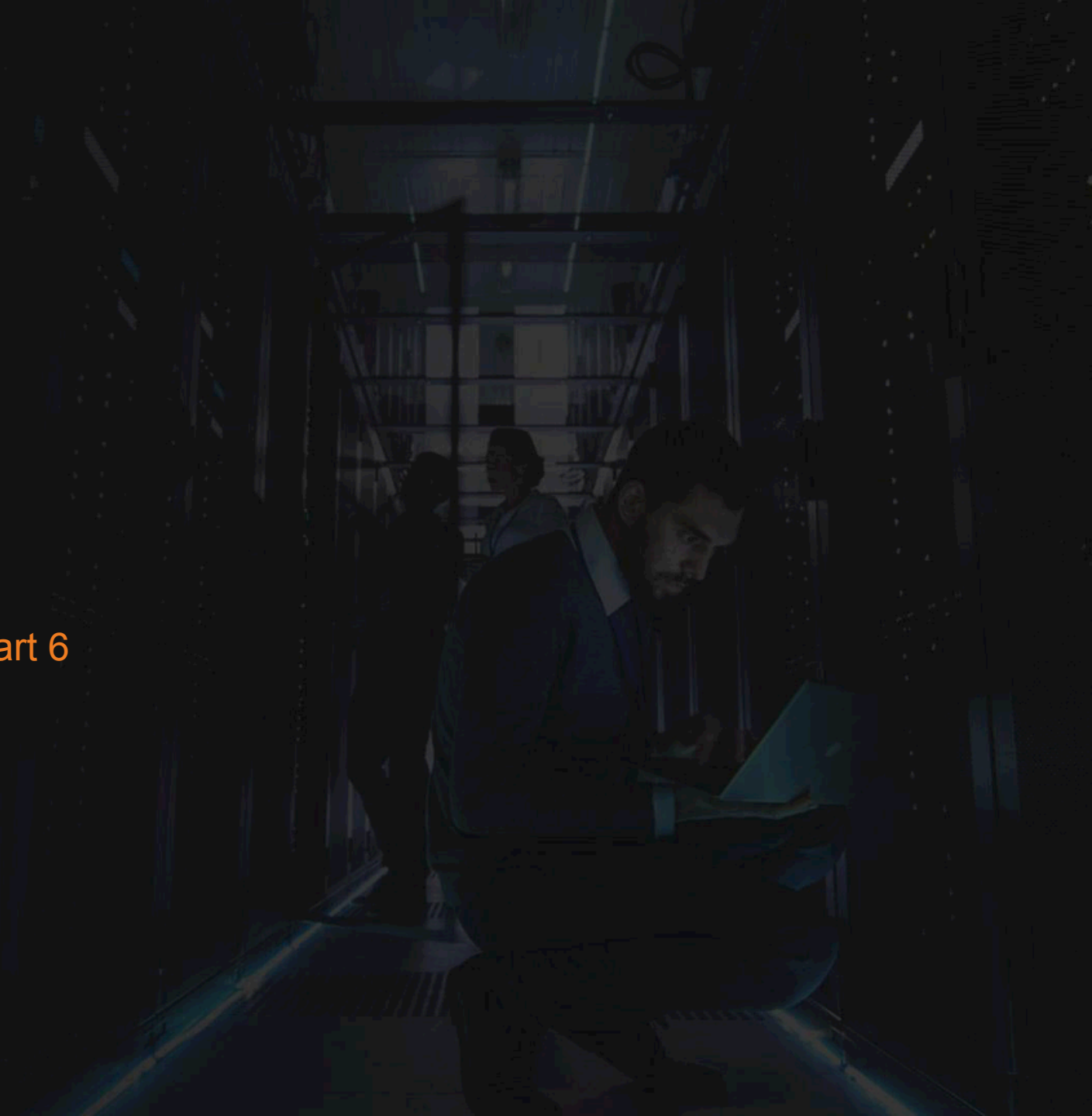






# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 6



# MPLS Problem Statement

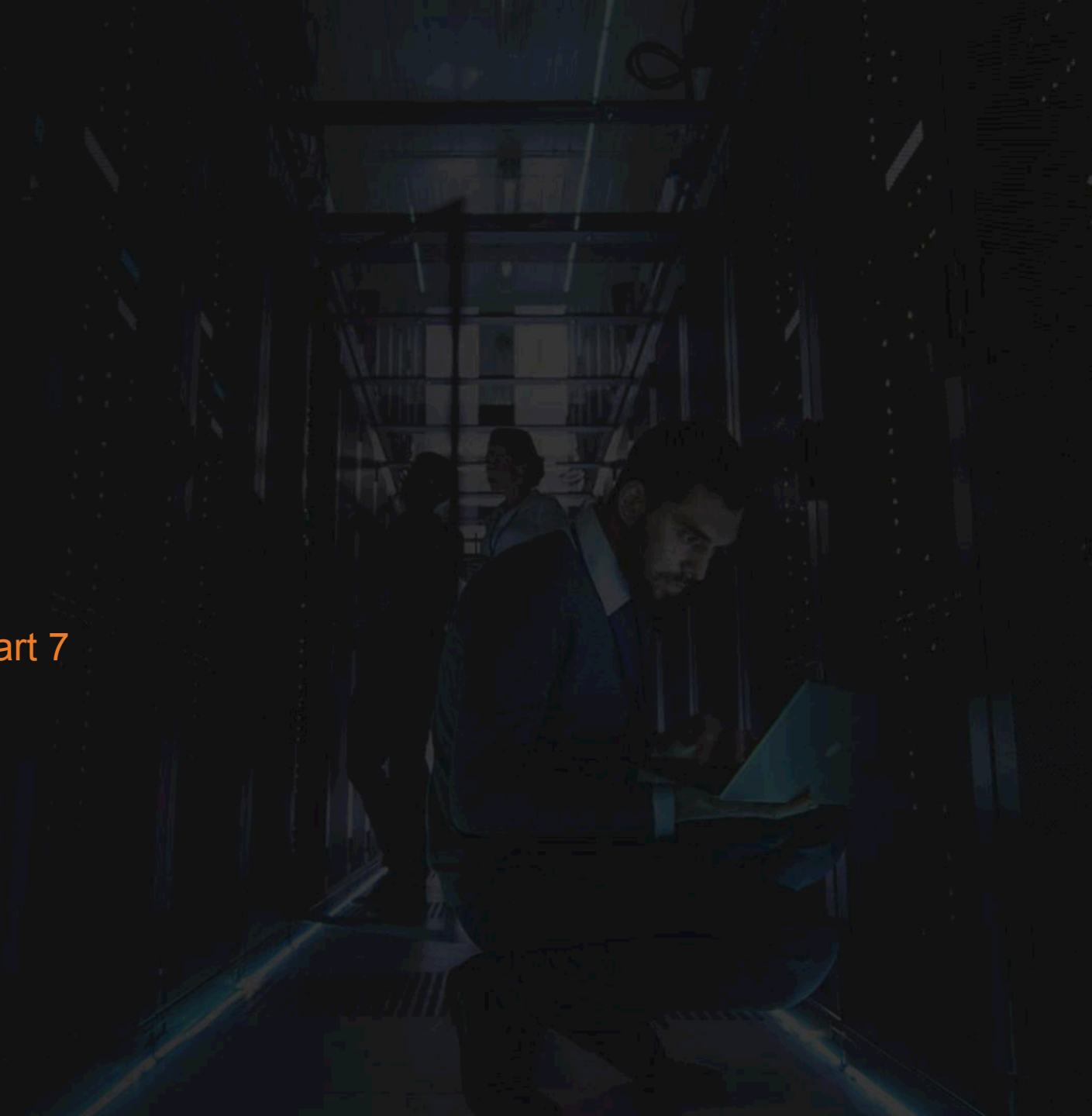
- + MPLS L3VPN Site 1 consisting of R7 and R9 has multiple PE routers, R3 and R6. Modify R3 so that R6 is used as the primary exit point for Site 1 to reach Site 2 (R8 and R10). If R6 is down, traffic should fall back to the exit point to R3.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 7



# MPLS Problem Statement

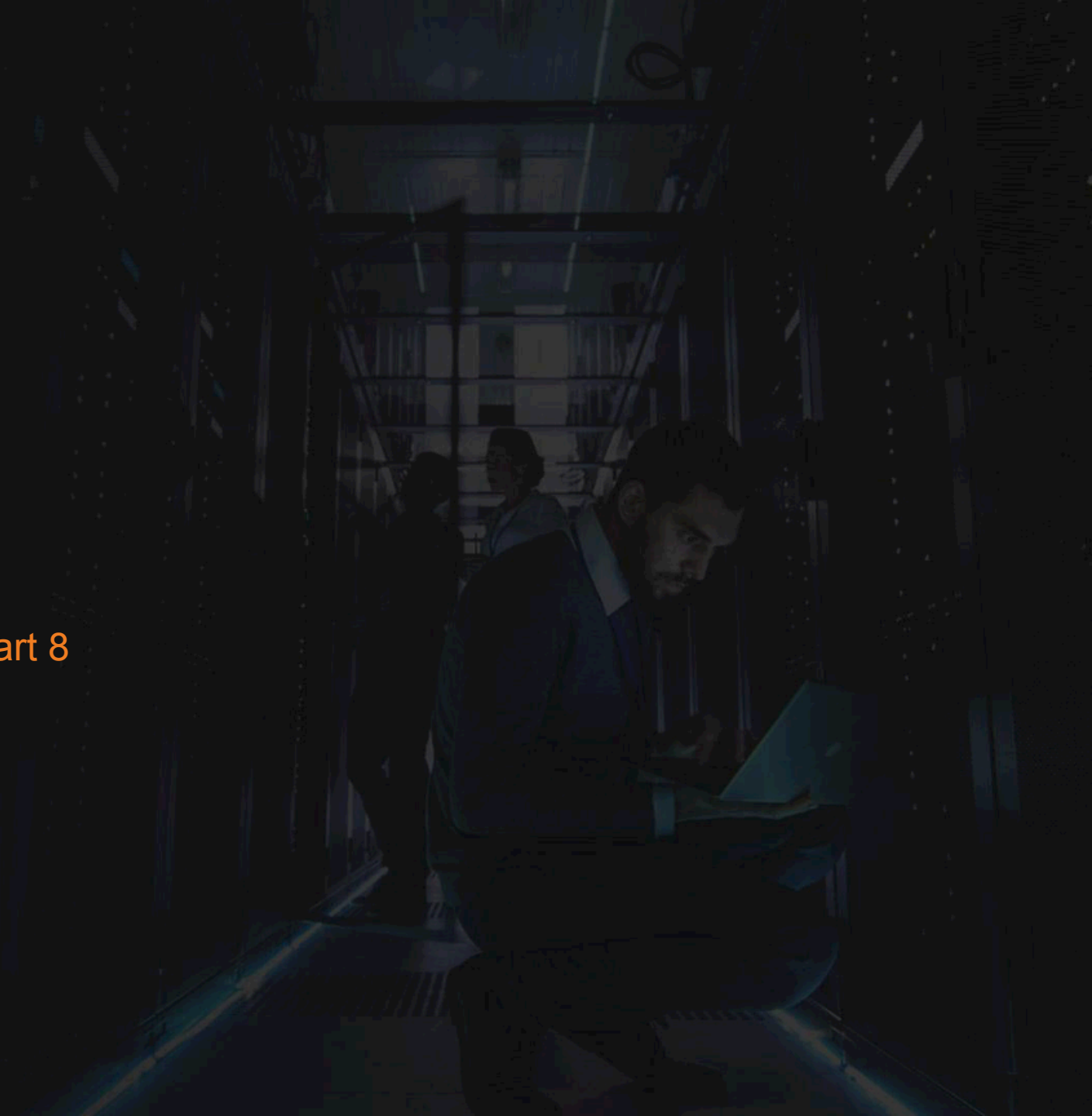
- + MPLS L3VPN Site 1 consisting of R7 and R9 has multiple PE routers, R3 and R6. Site 1 wants to use R6 as the primary exit point to reach Site 2 (R8 and R10), but currently R3 is being used as the primary. Find the problem and modify the network as necessary so that R6 is used as the primary exit point for Site 1 to reach Site 2. If R6 is down, traffic should fall back to the exit point to R3.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 8



# MPLS Problem Statement

- + MPLS L3VPN Site 1 consisting of R7 and R9 has multiple PE routers, R3 and R6. Site 2 wants to load balance between R3 and R6 as traffic exits Site 2, but currently only one PE router is being used. Find the problem and modify the network as necessary so that traffic from Site 2 to Site 1 uses both R3 and R6 as entry points into Site 1.

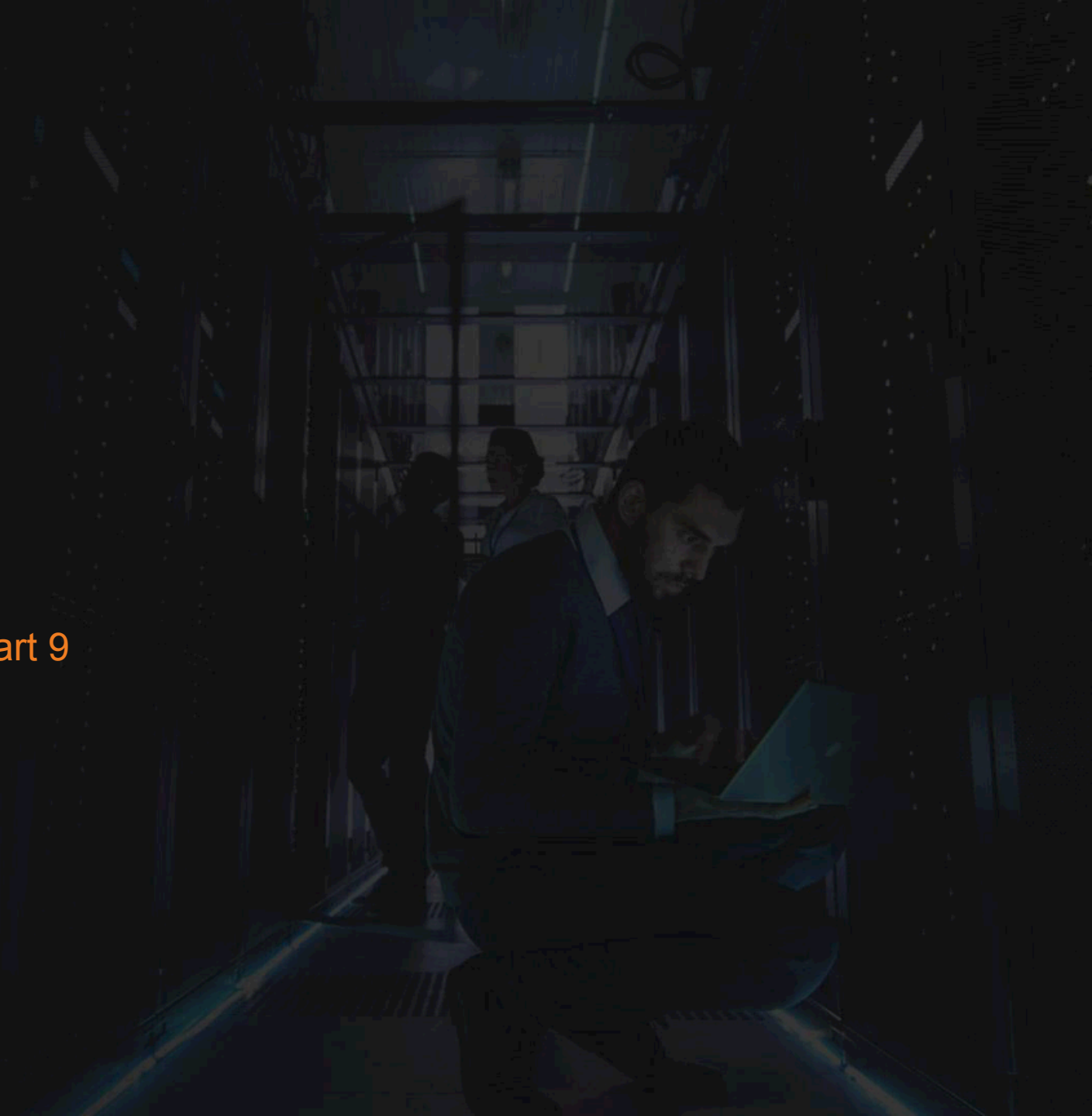






# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 9



# MPLS Problem Statement

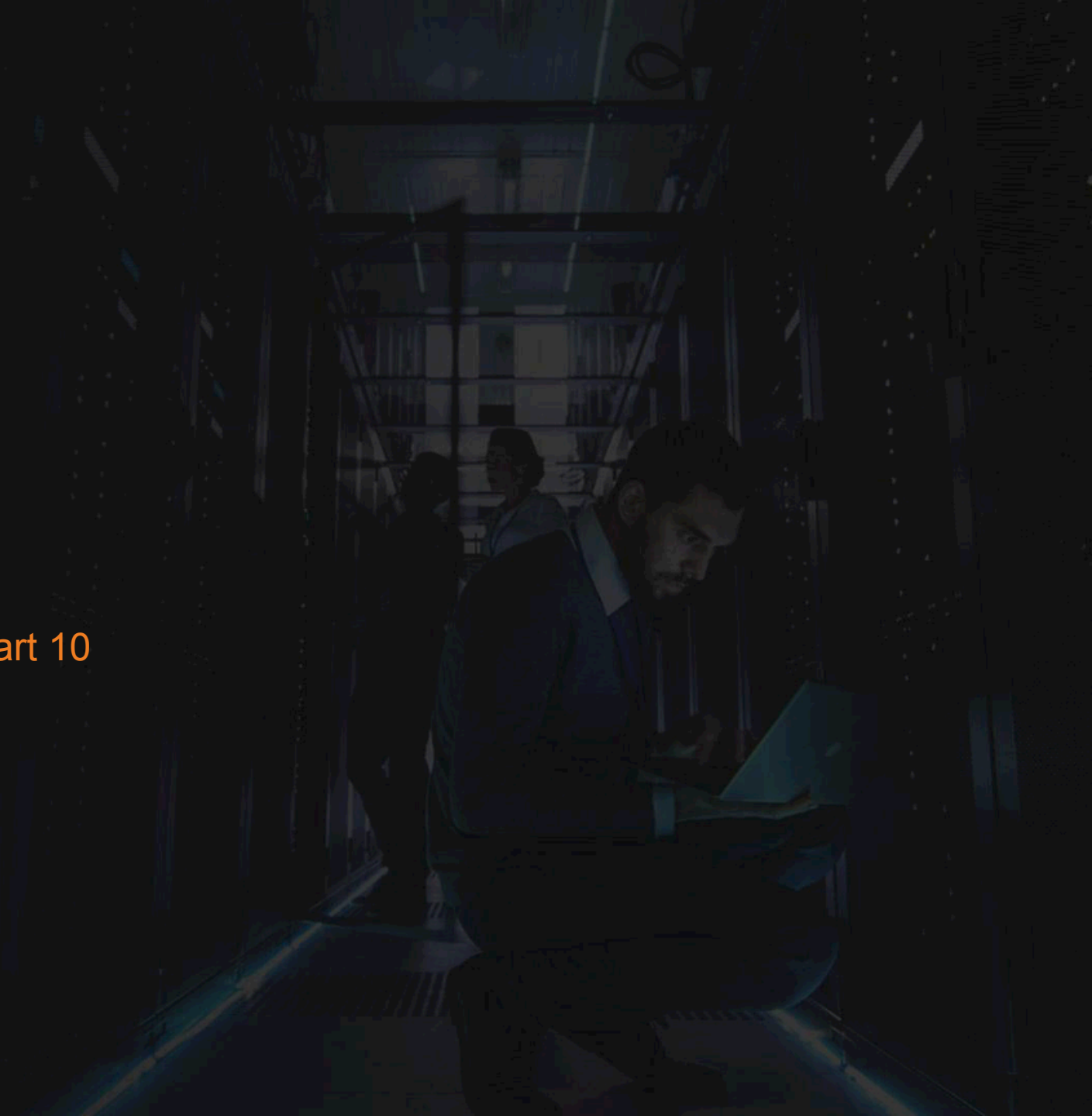
- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.





# MPLS Deep Dive

Troubleshooting MPLS Advertisements - Part 10



# MPLS Problem Statement

- + R9 and R10 are unable to reach each other over the MPLS L3VPN. Find the problem and modify the network so that R9 and R10 have reachability to each others' Loopback0 interfaces.

