

Switching Features



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NETWORK ENGINEER

@bagurdes



Module Goals



Broadcast Storms and Prevention

VLANs

Mirroring Switchports

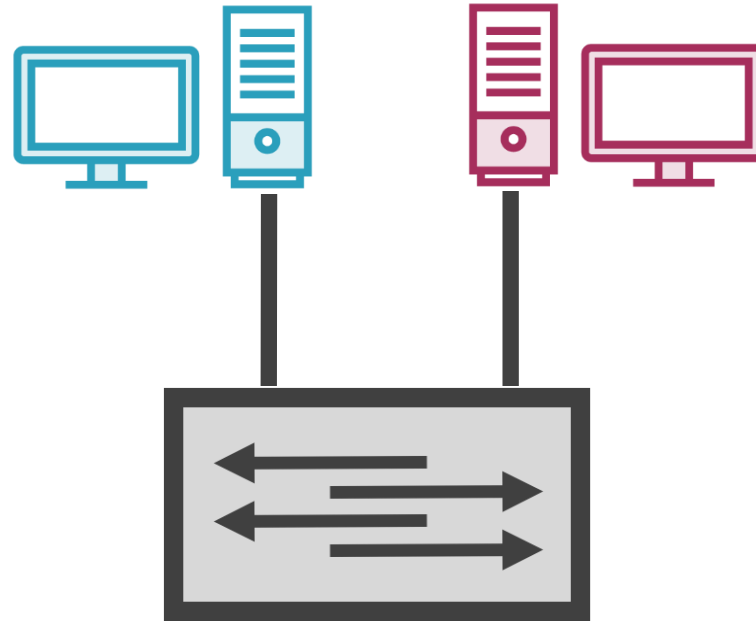
Power over Ethernet



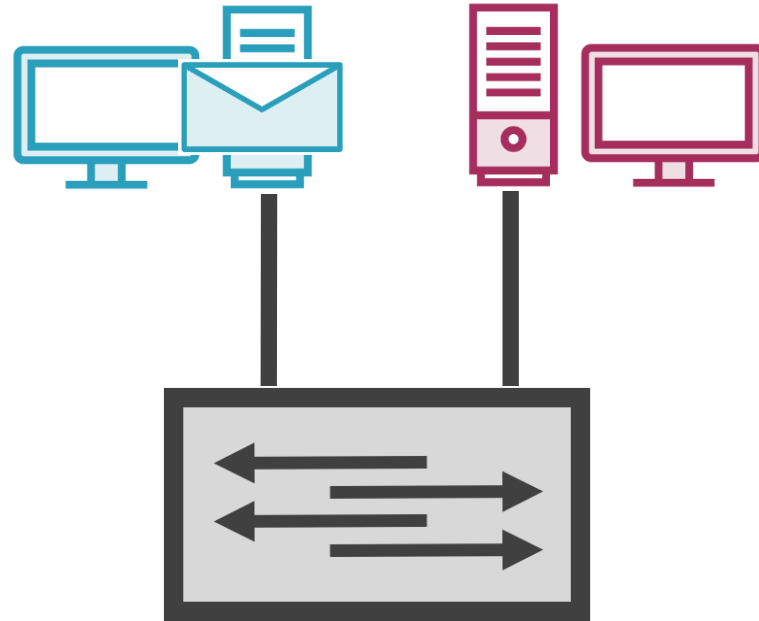
Connecting Switches



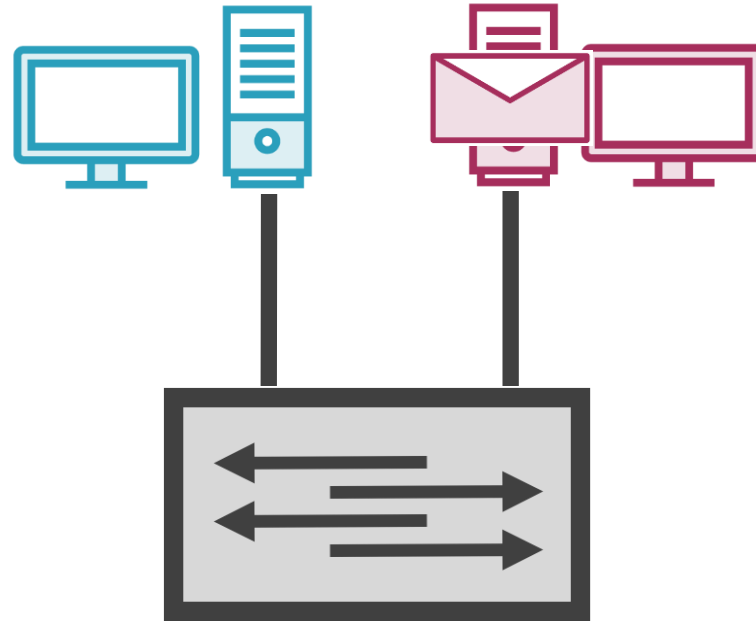
Broadcast Messages



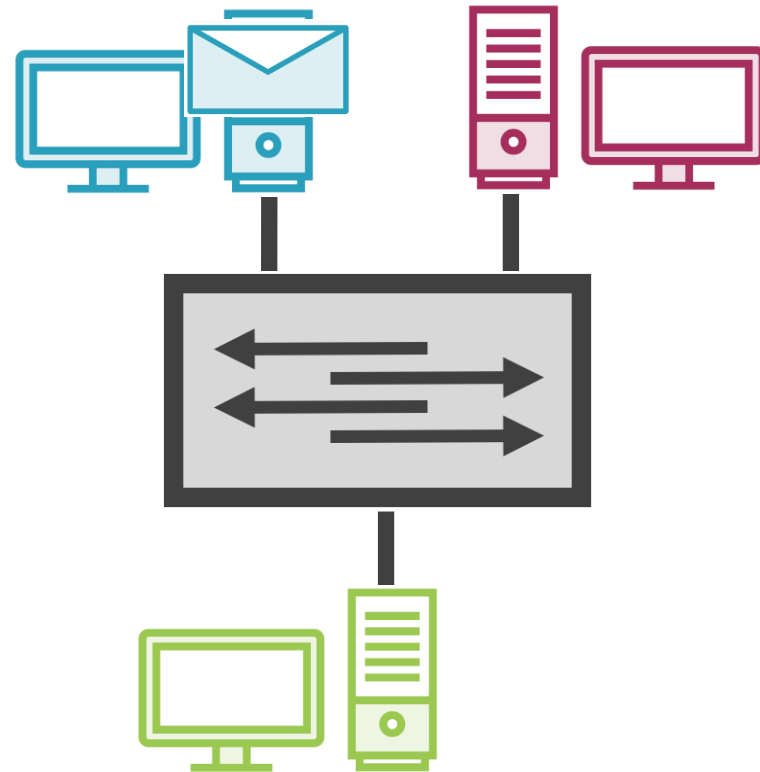
Broadcast Messages



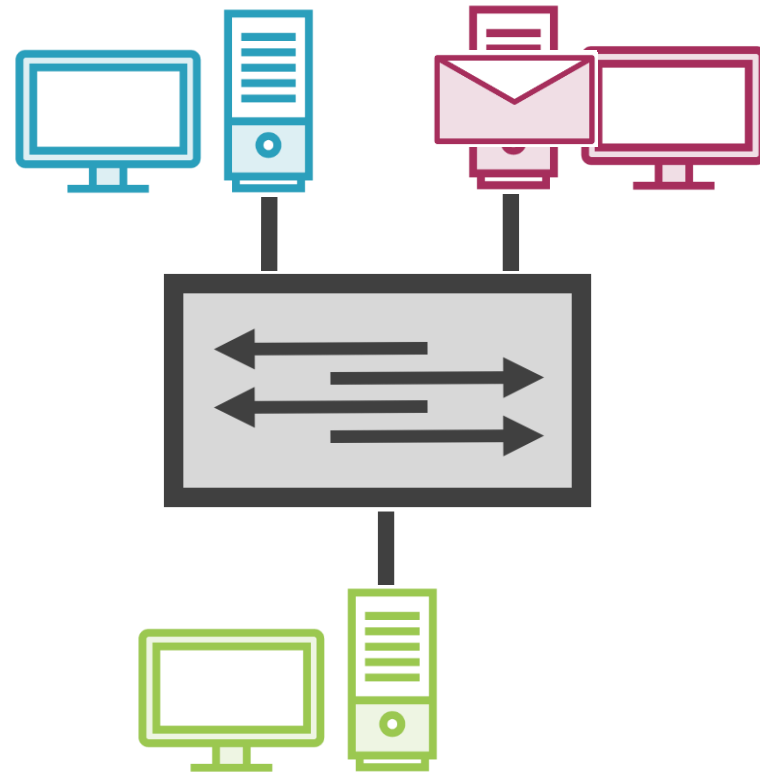
Broadcast Messages



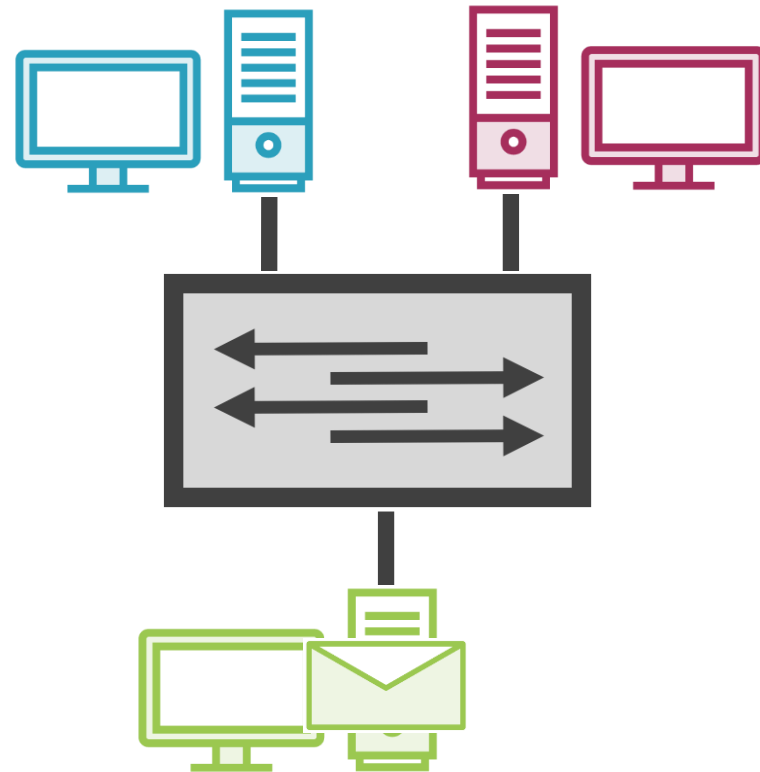
Broadcast Messages



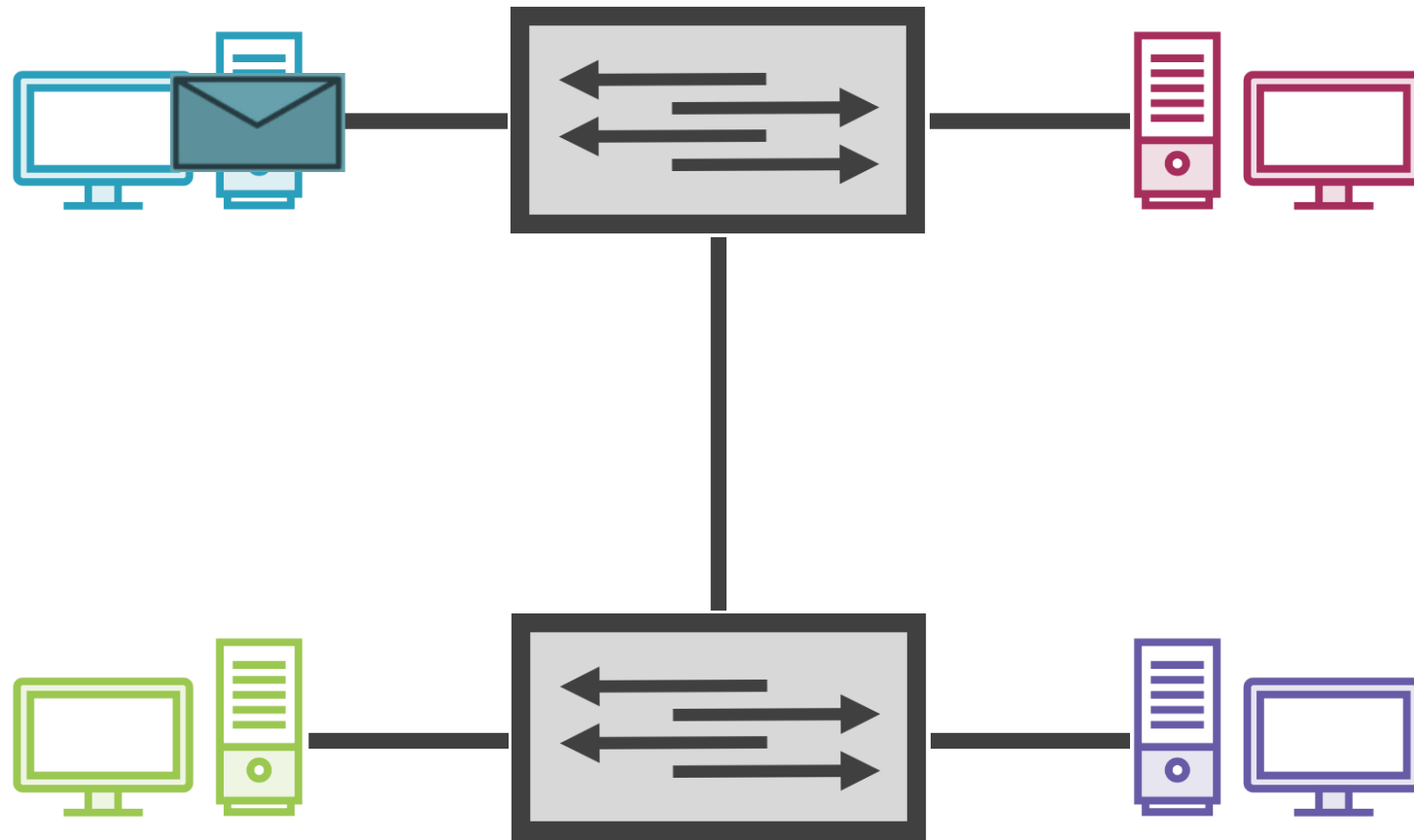
Broadcast Messages



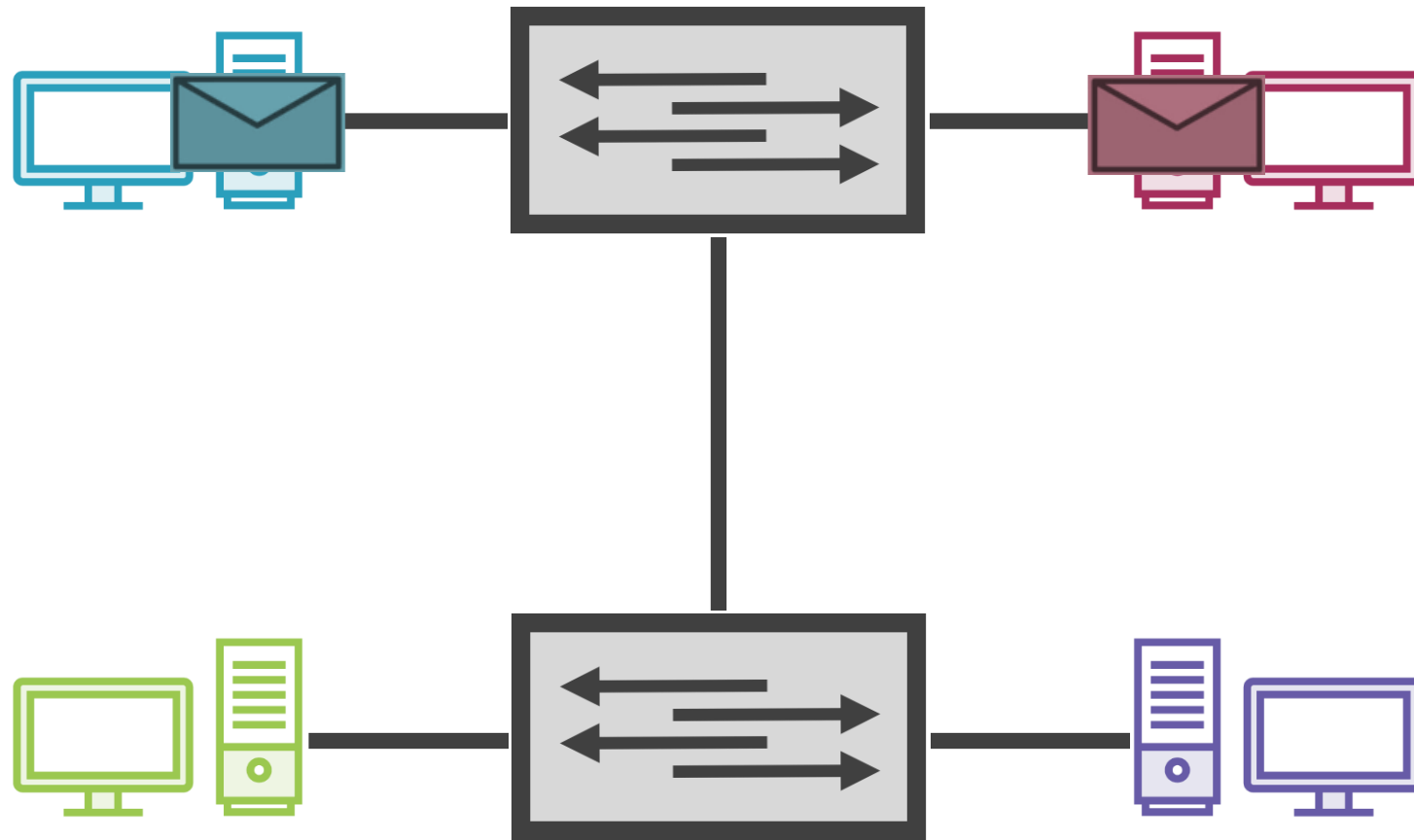
Broadcast Messages



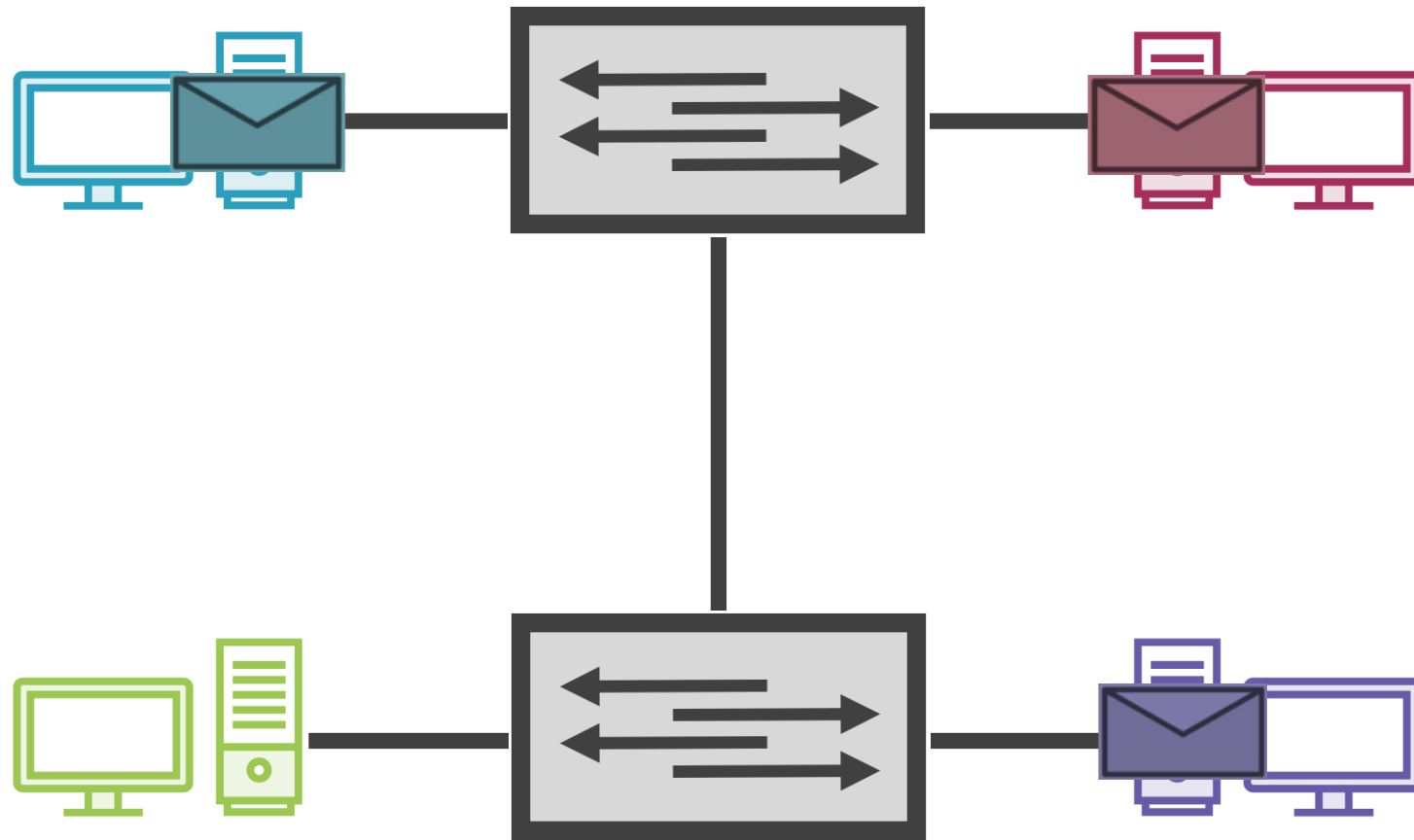
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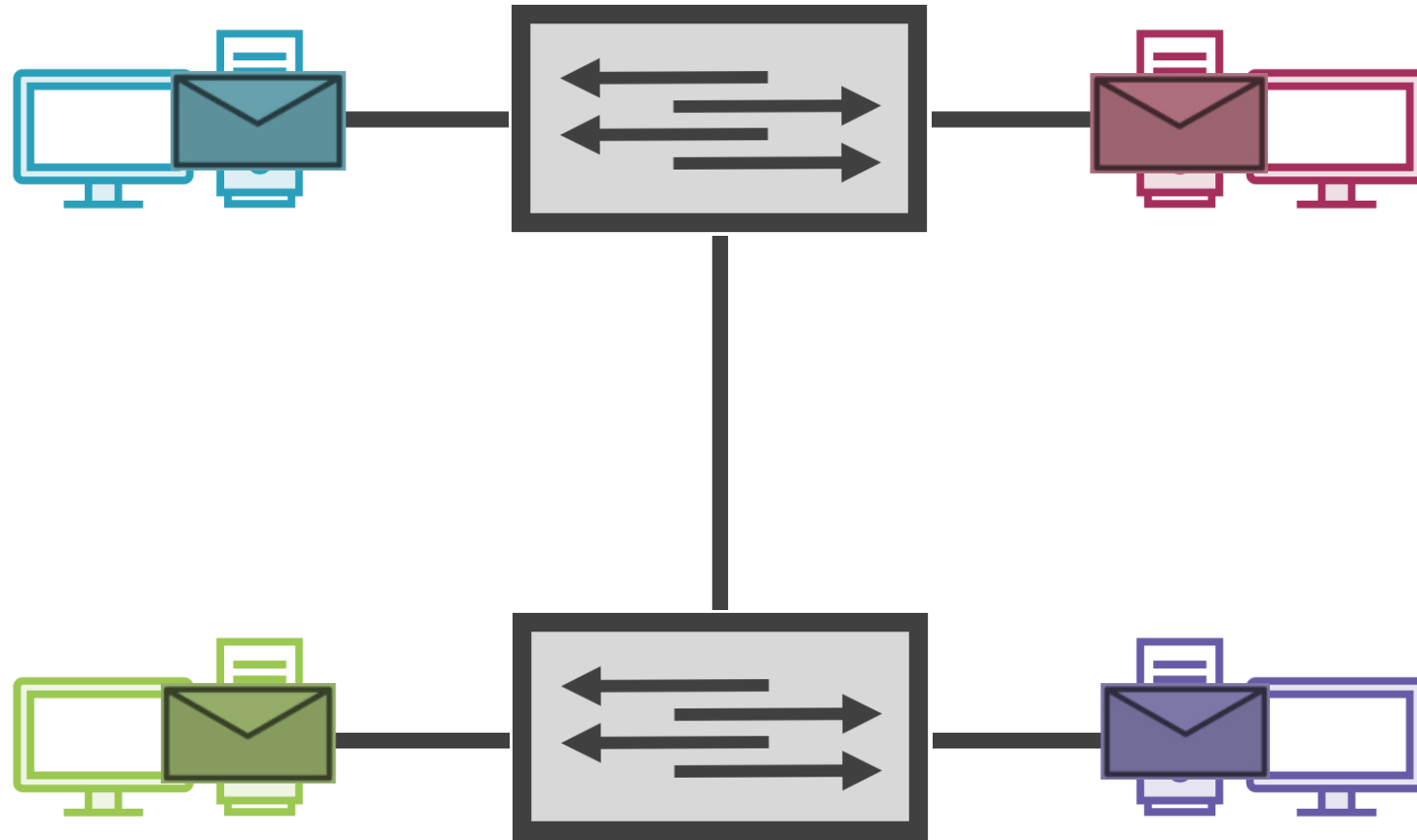
Broadcast Messages



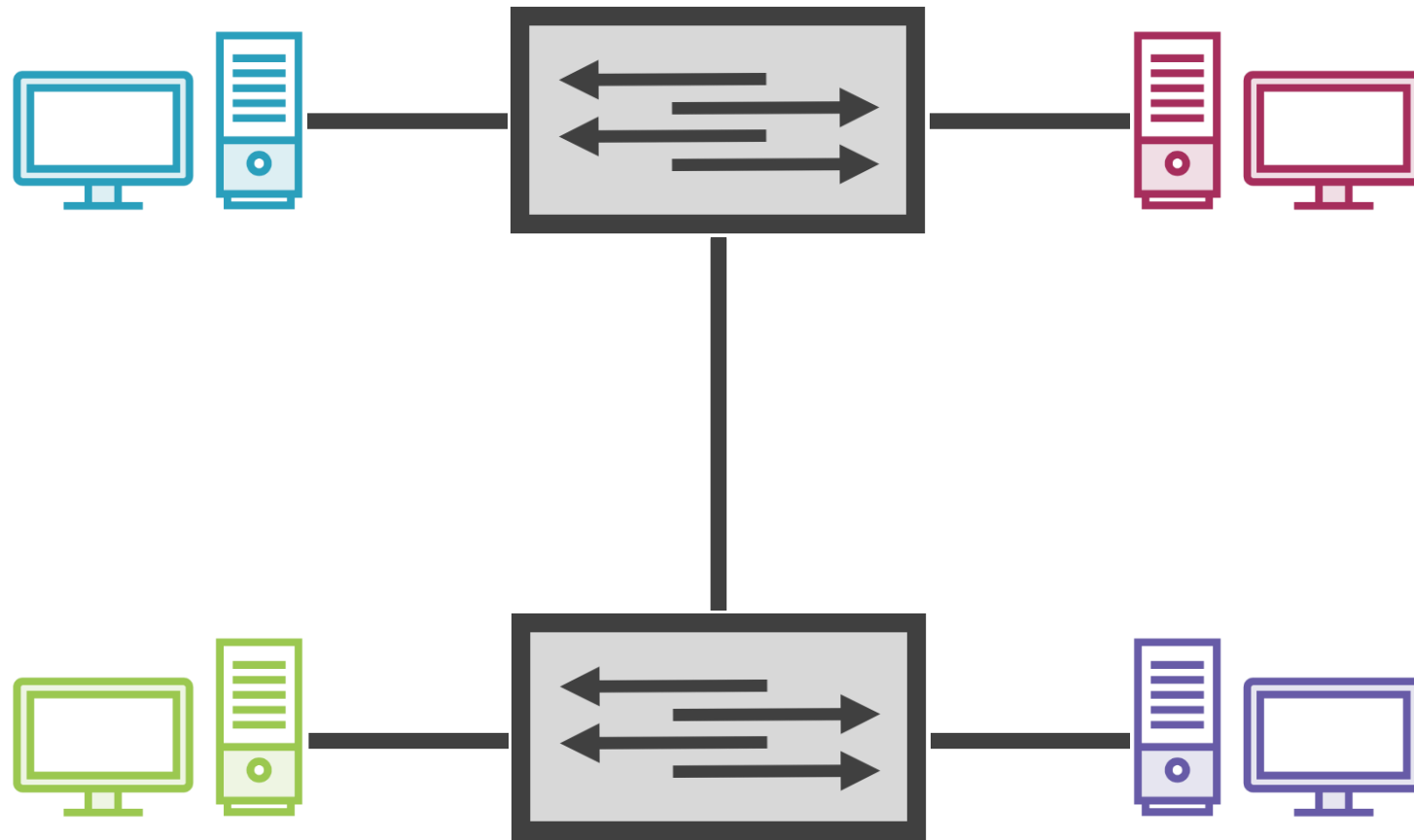
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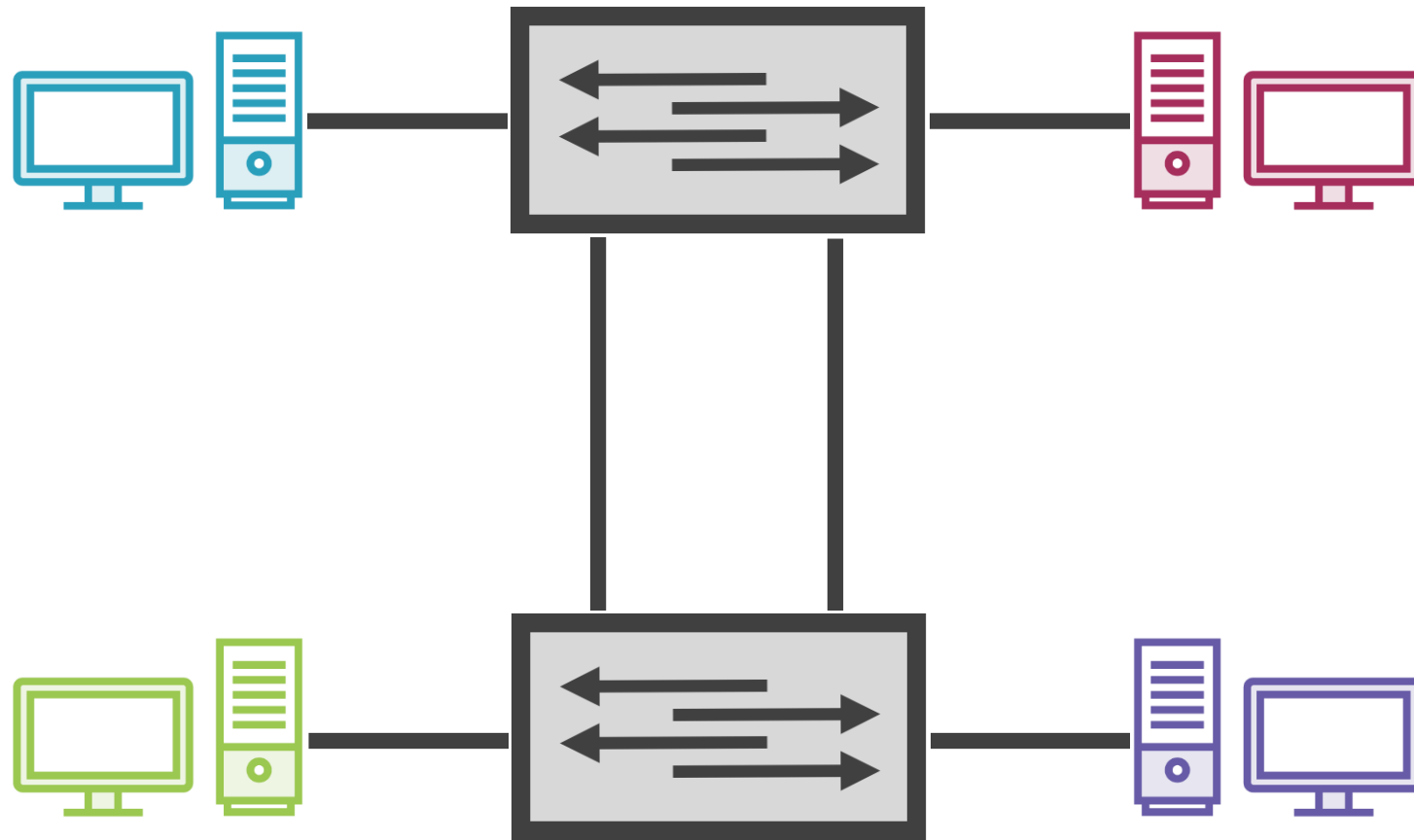
Broadcast Messages



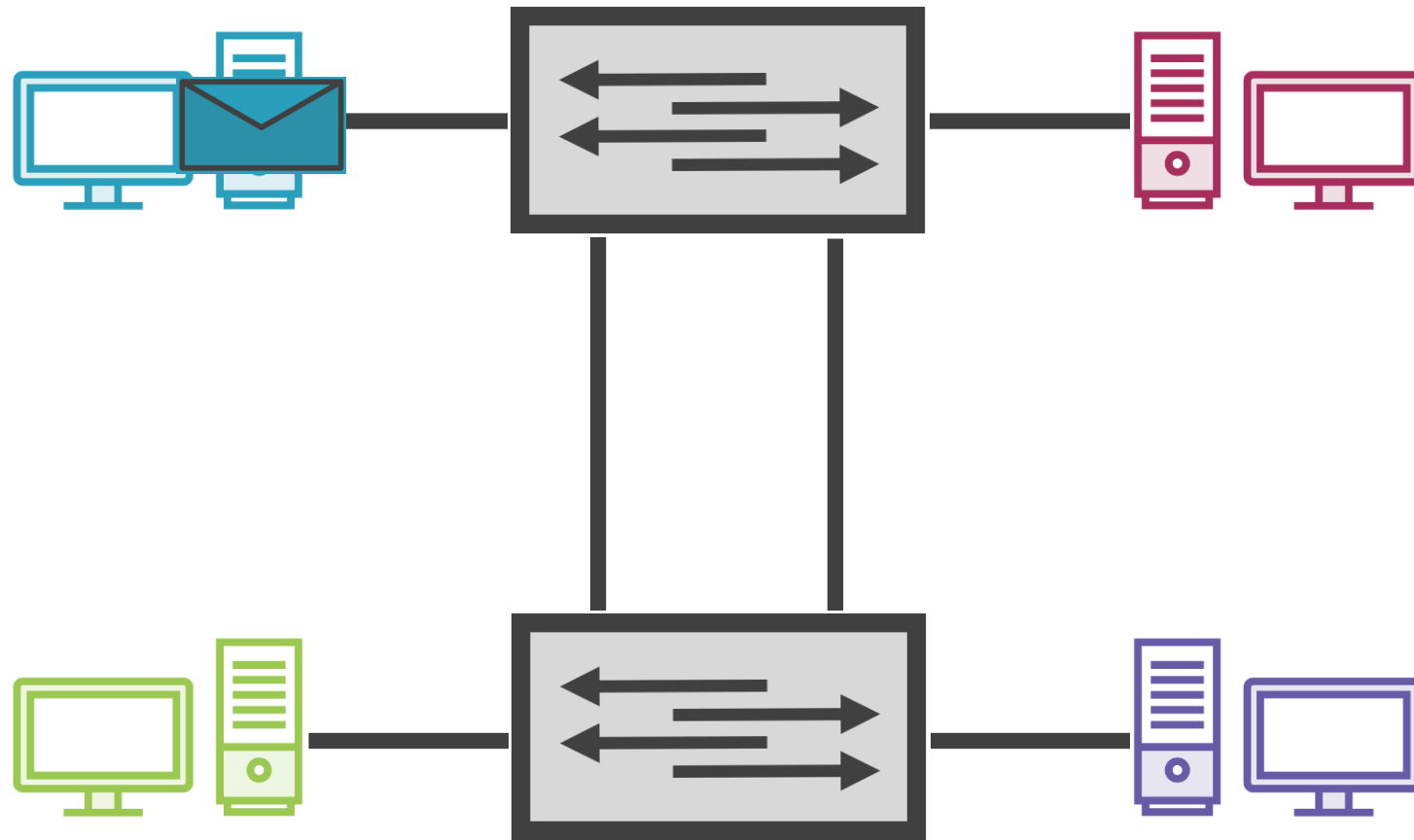
Broadcast Messages



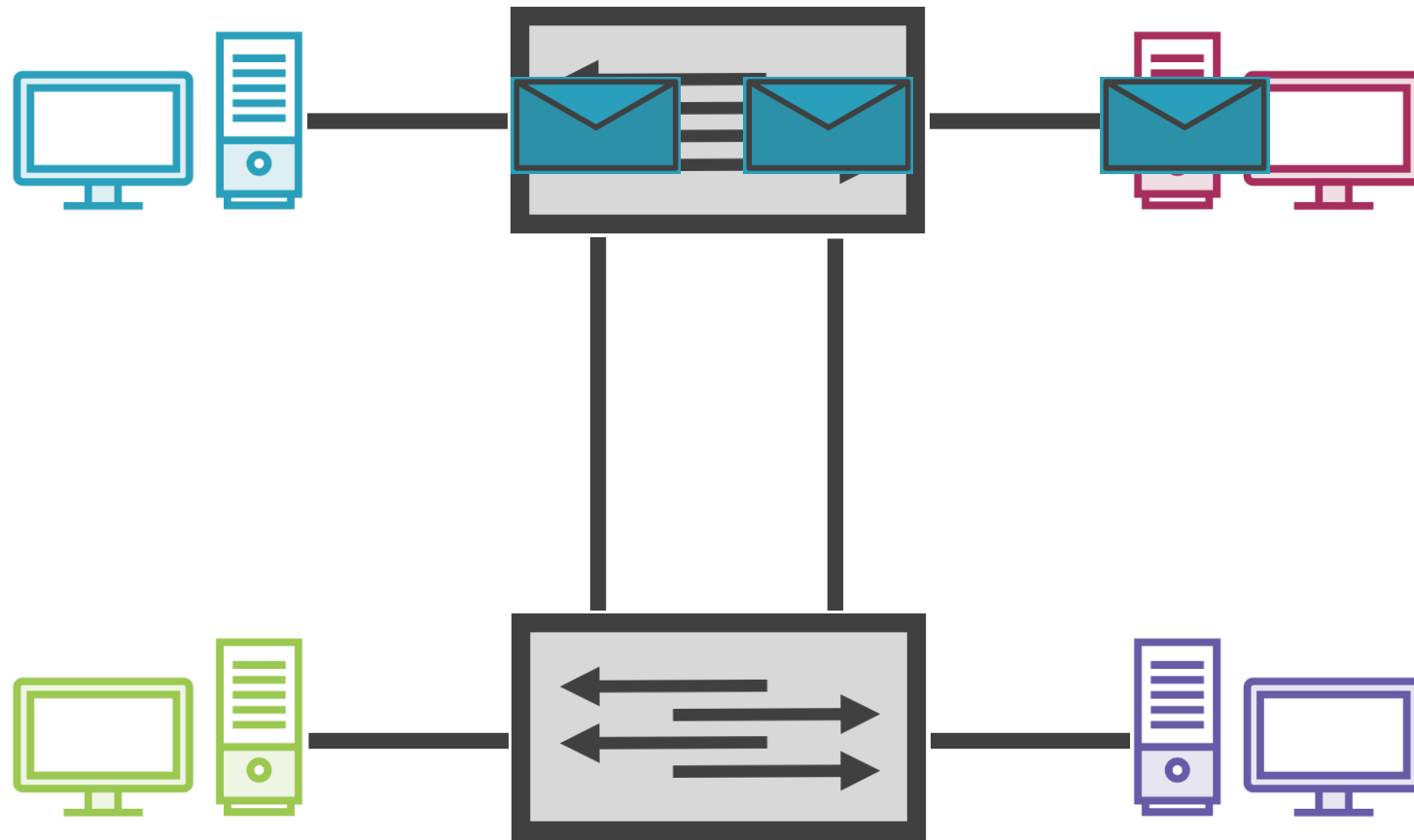
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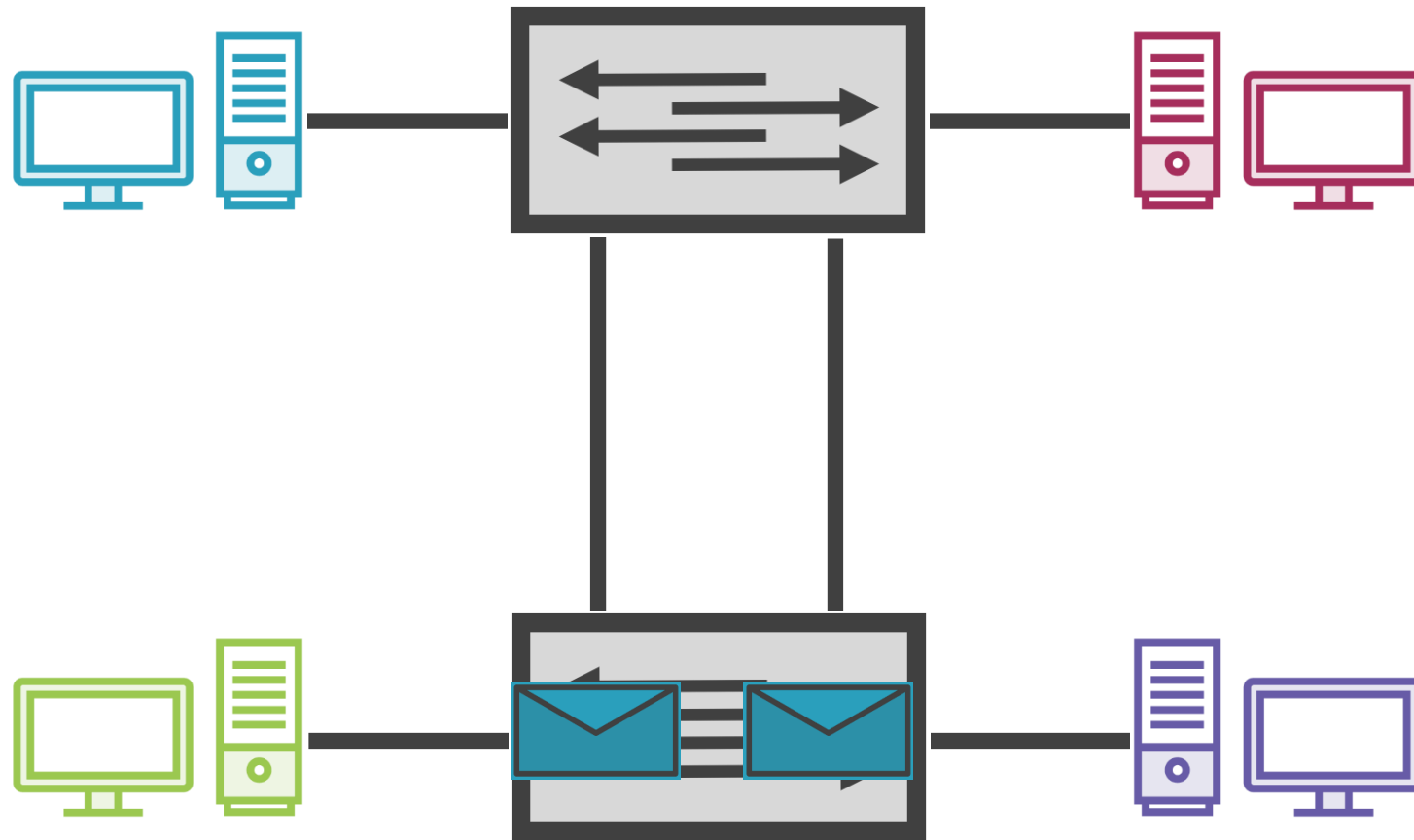
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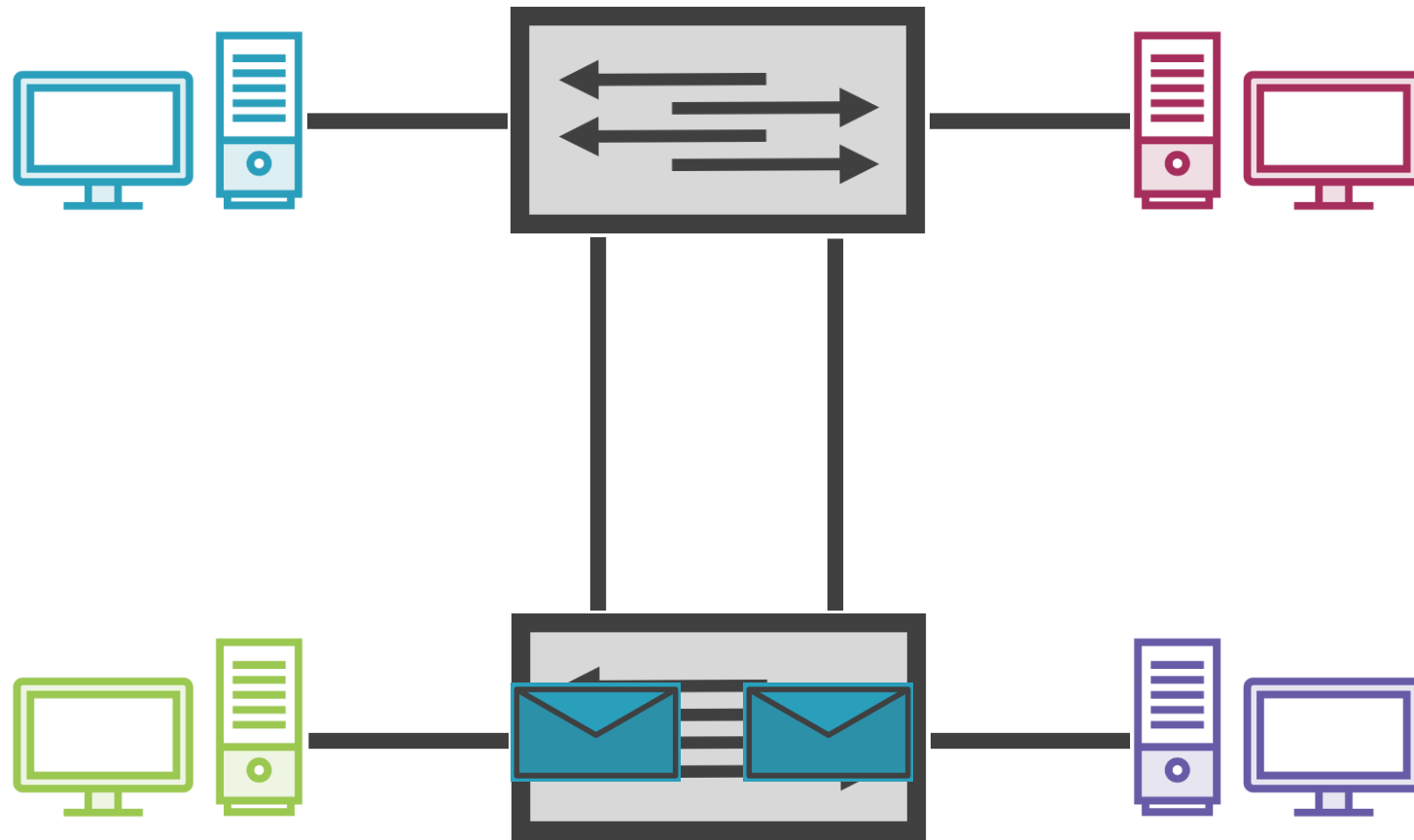
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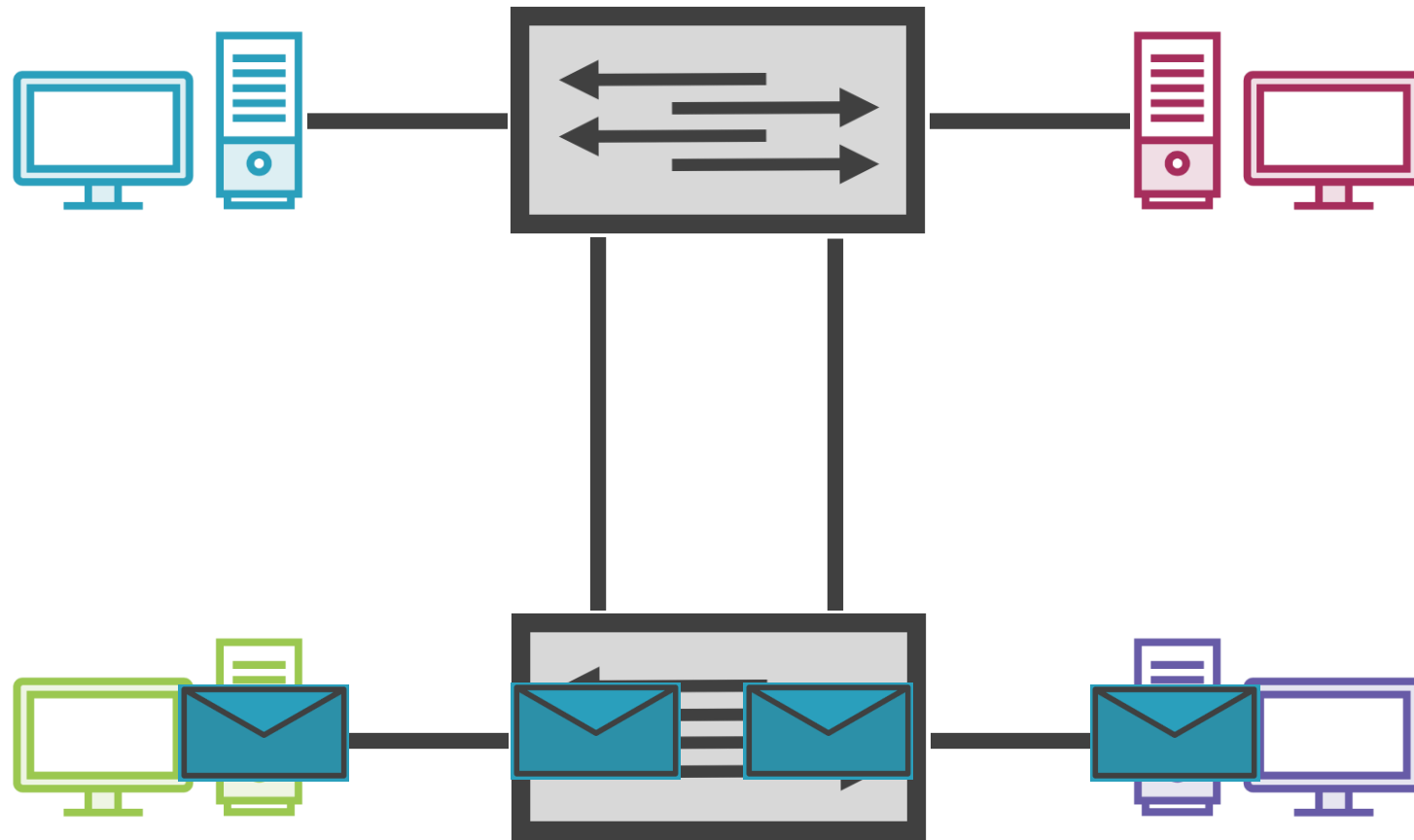
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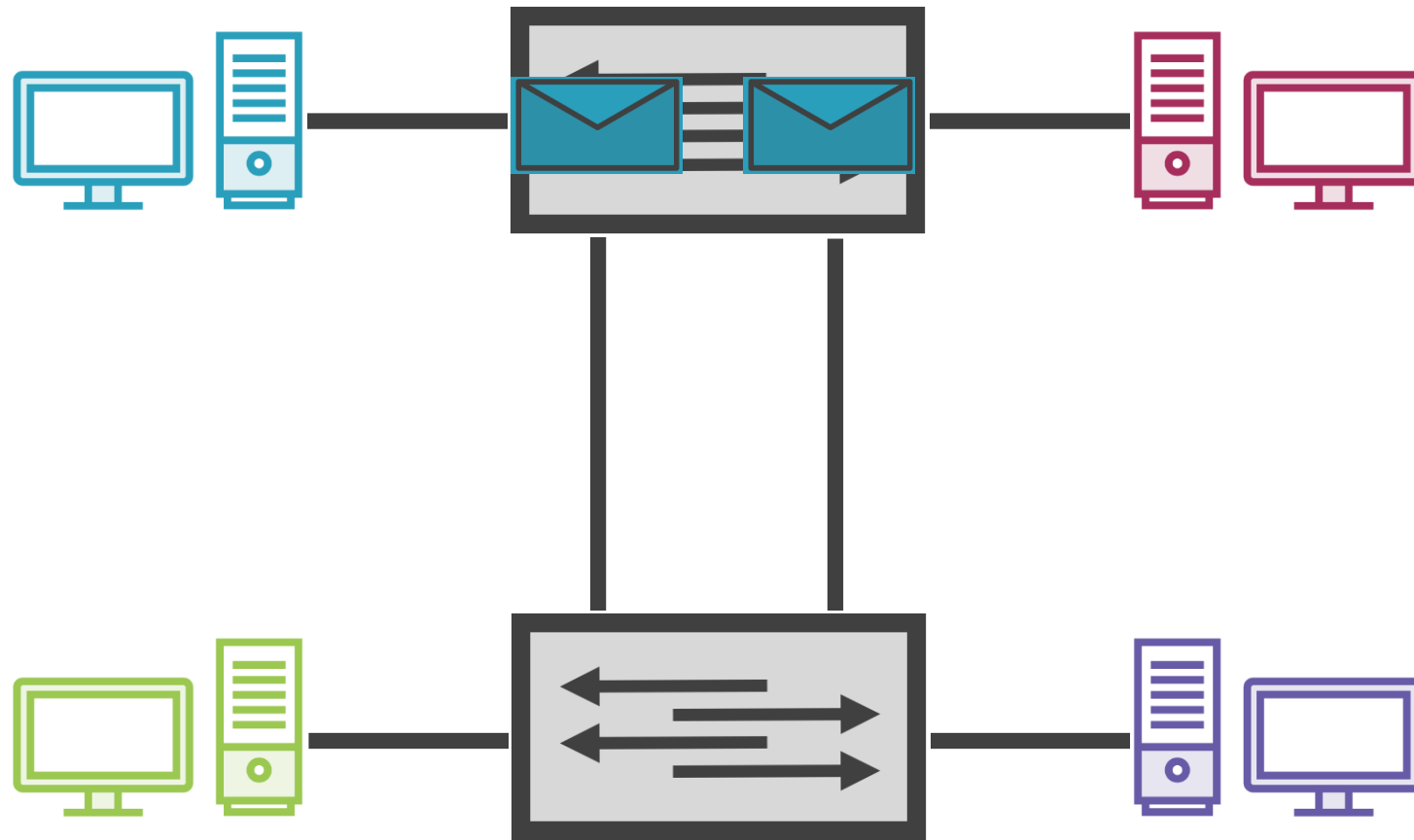
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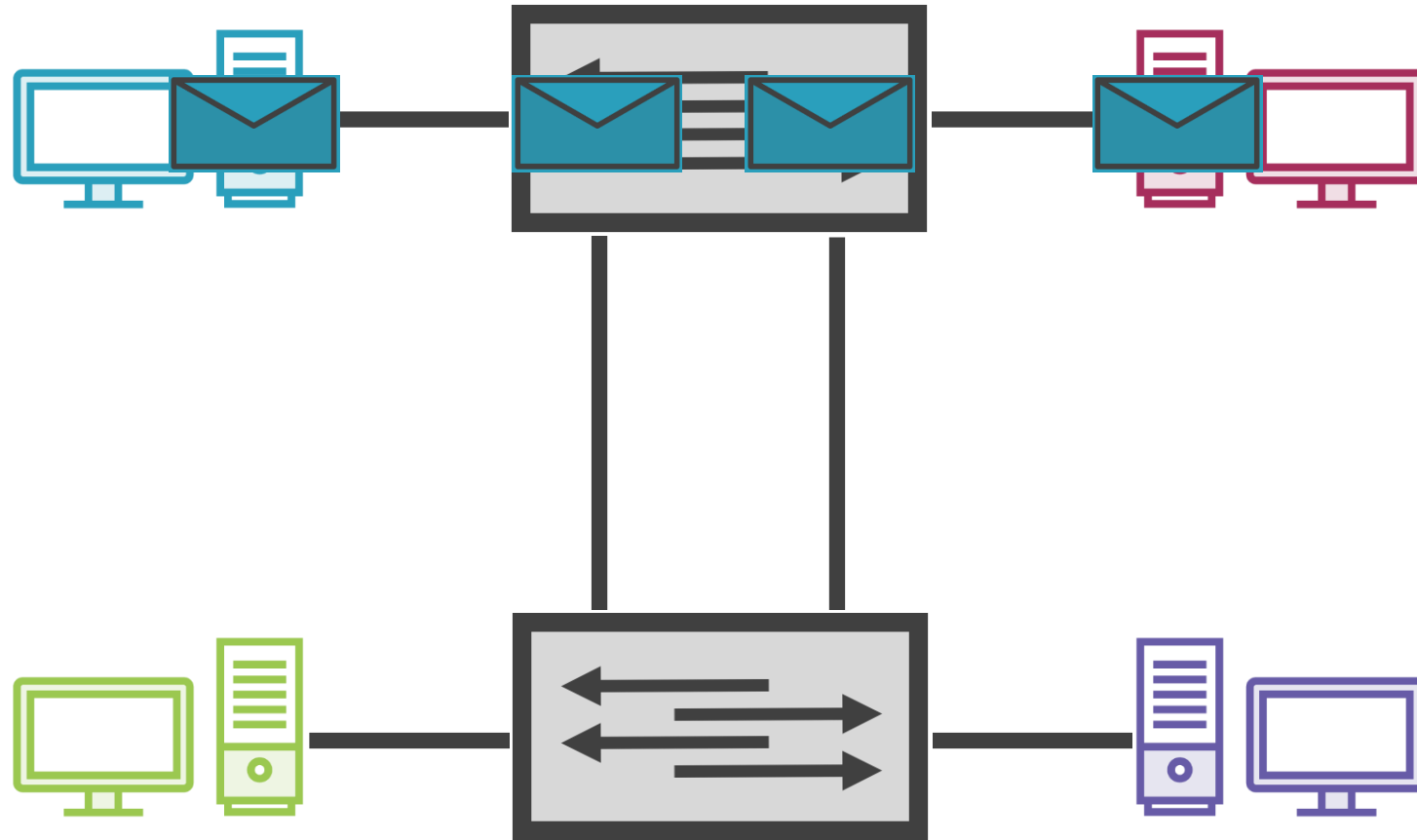
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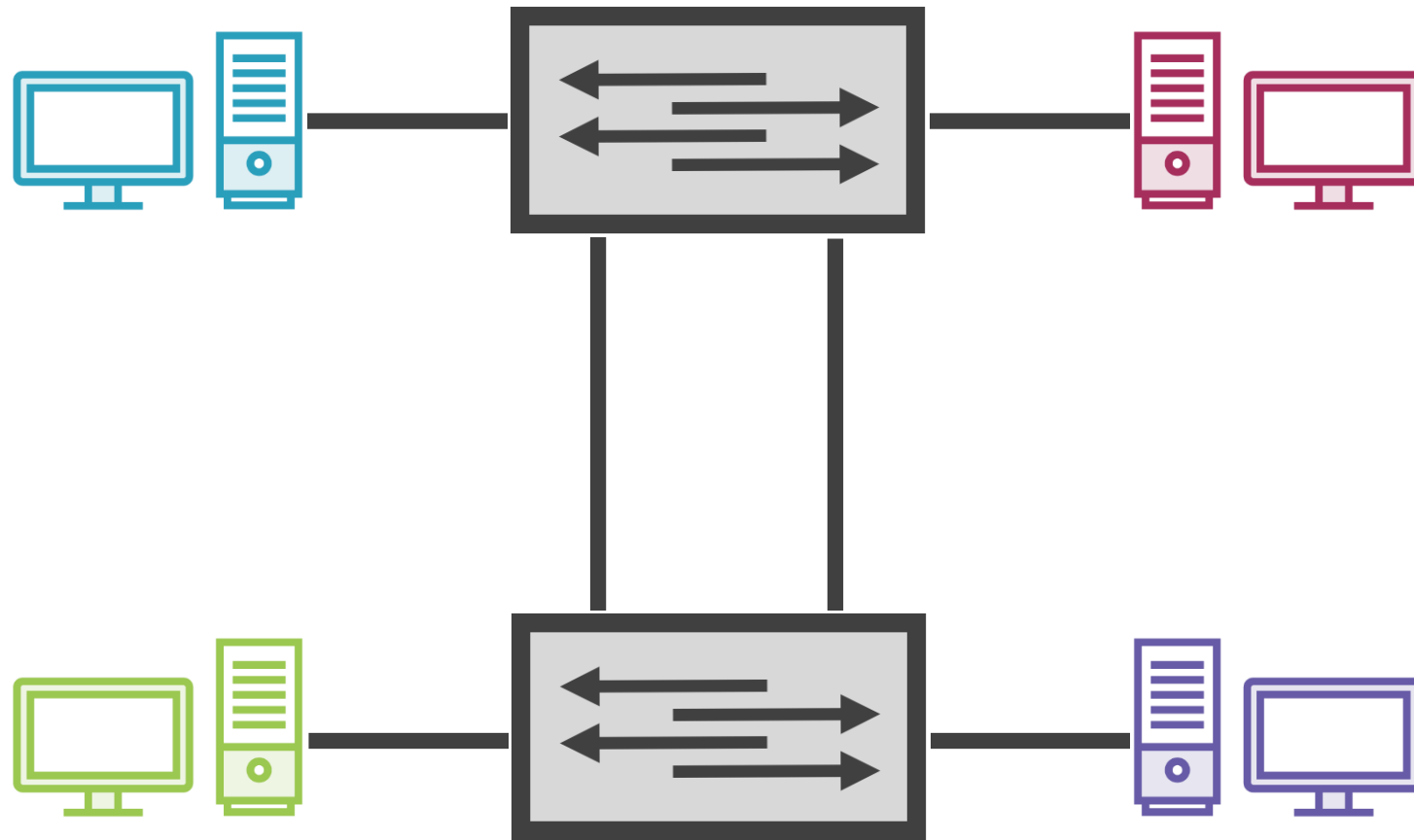
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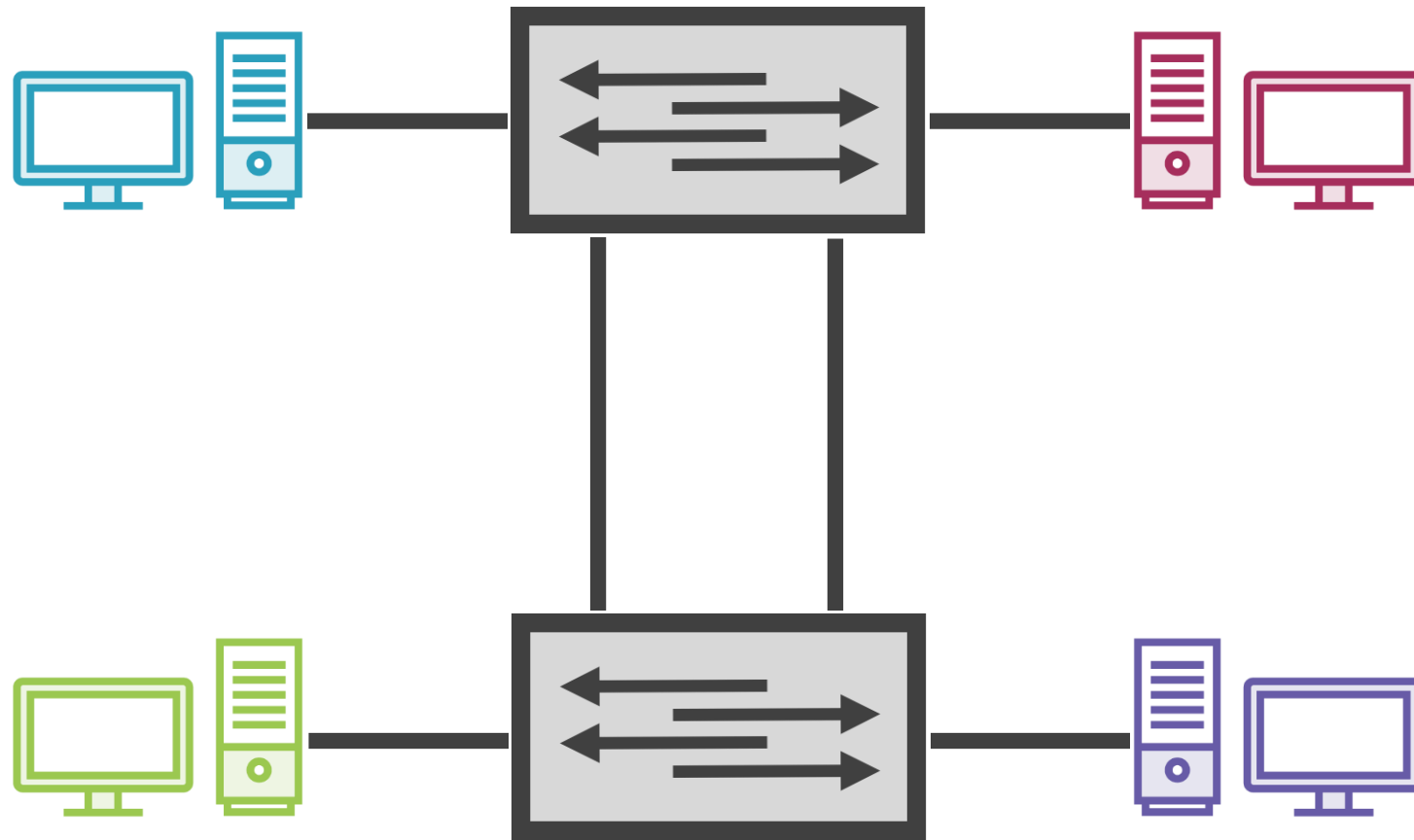
Broadcast Messages



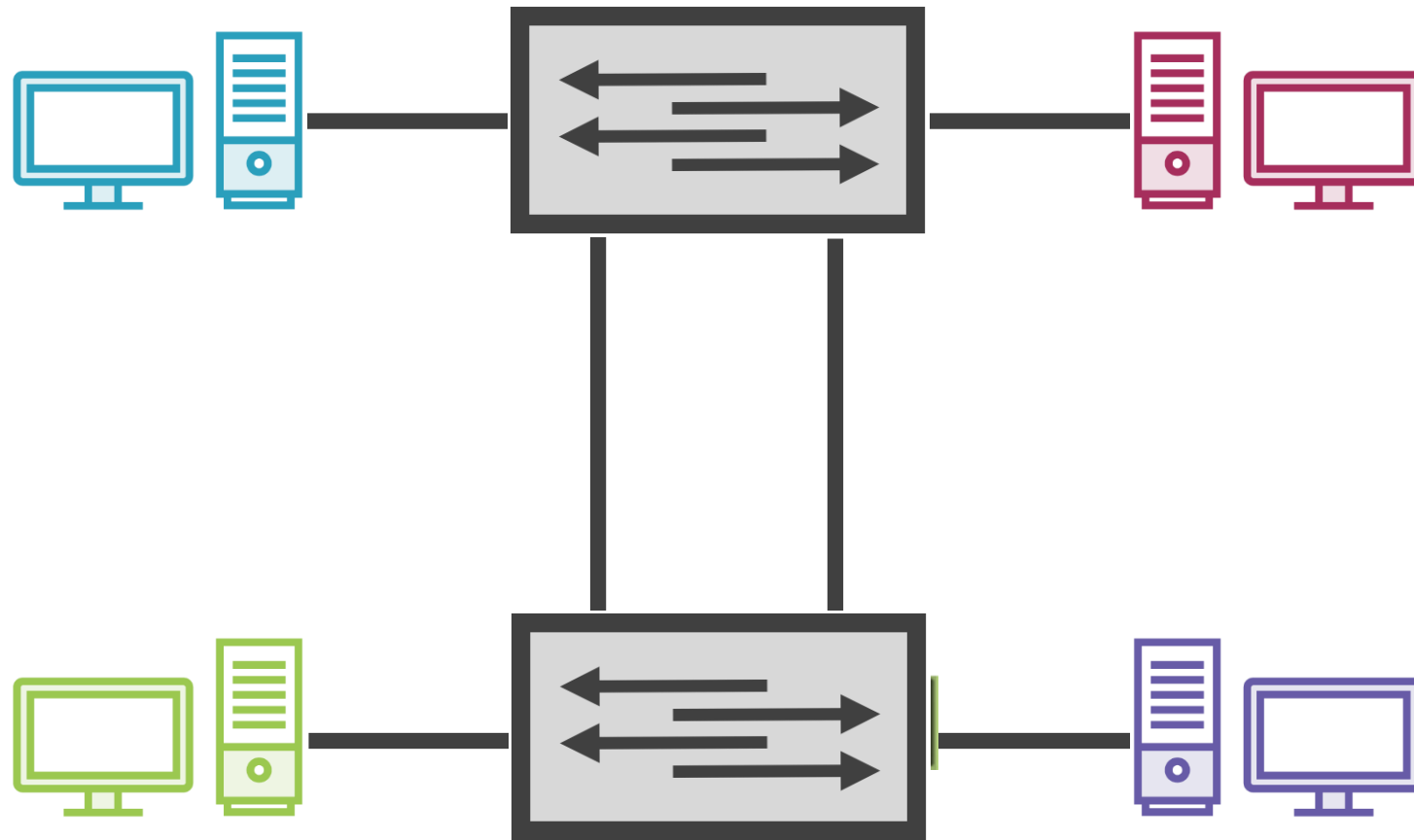
Broadcast Messages



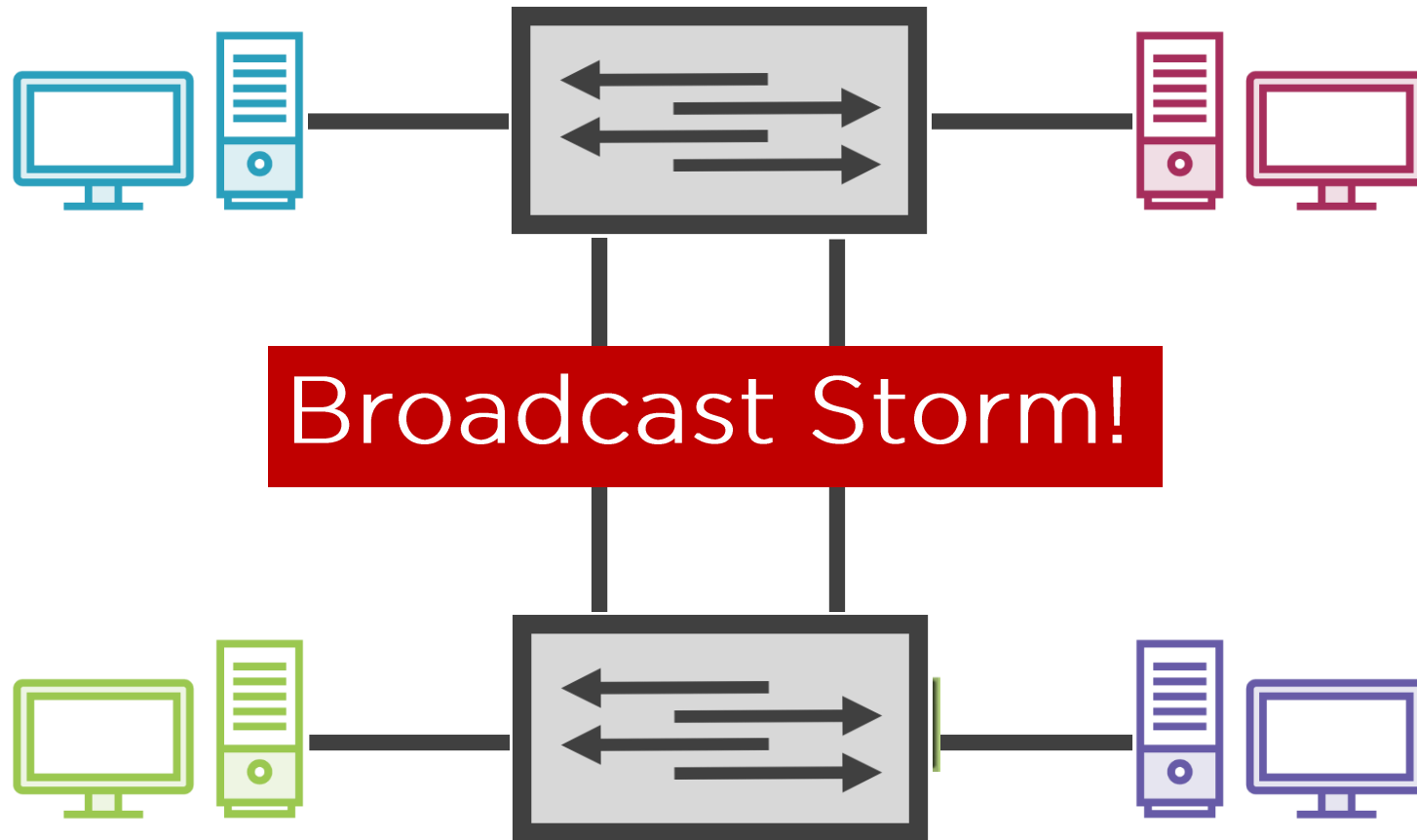
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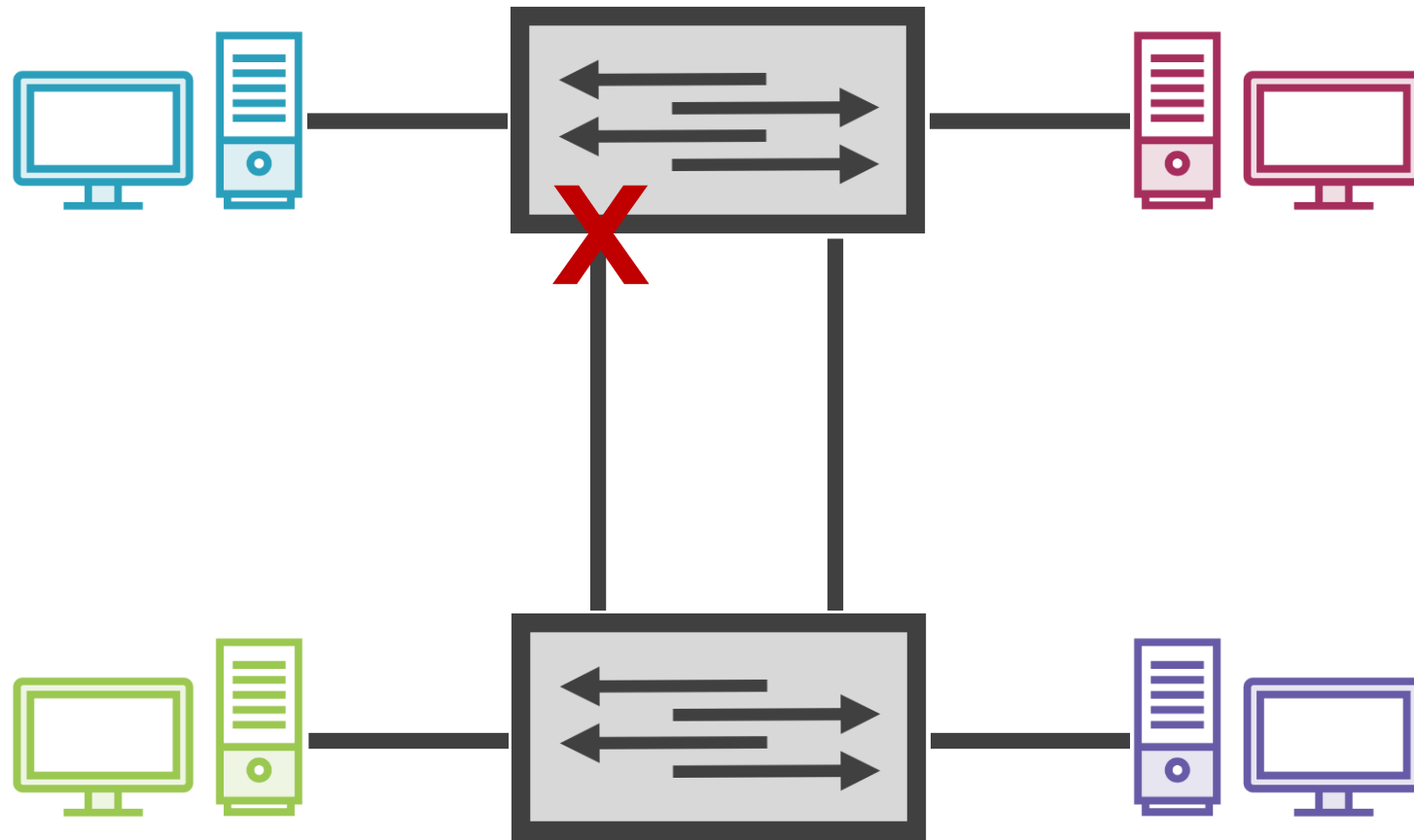
Broadcast Messages



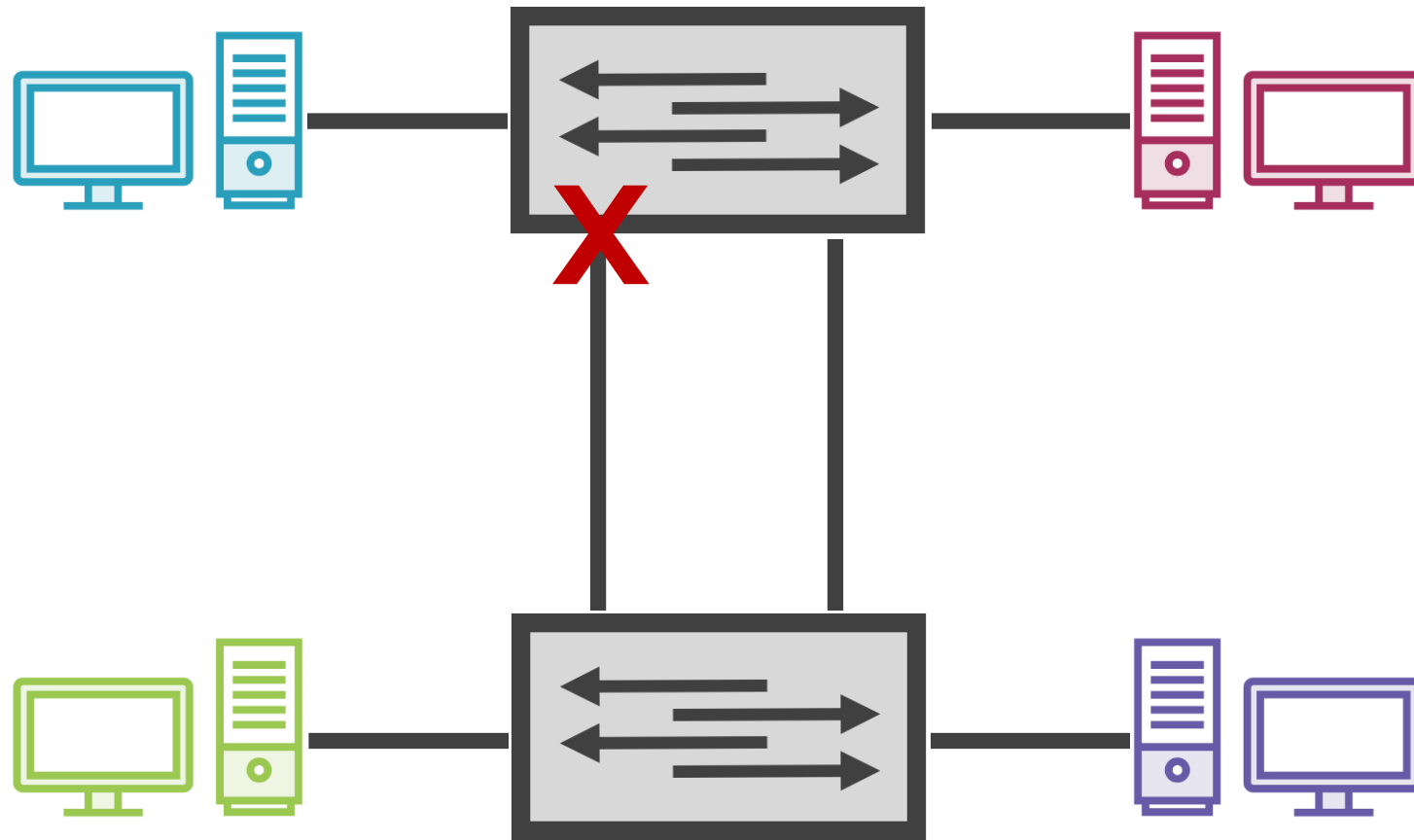
Broadcast Messages



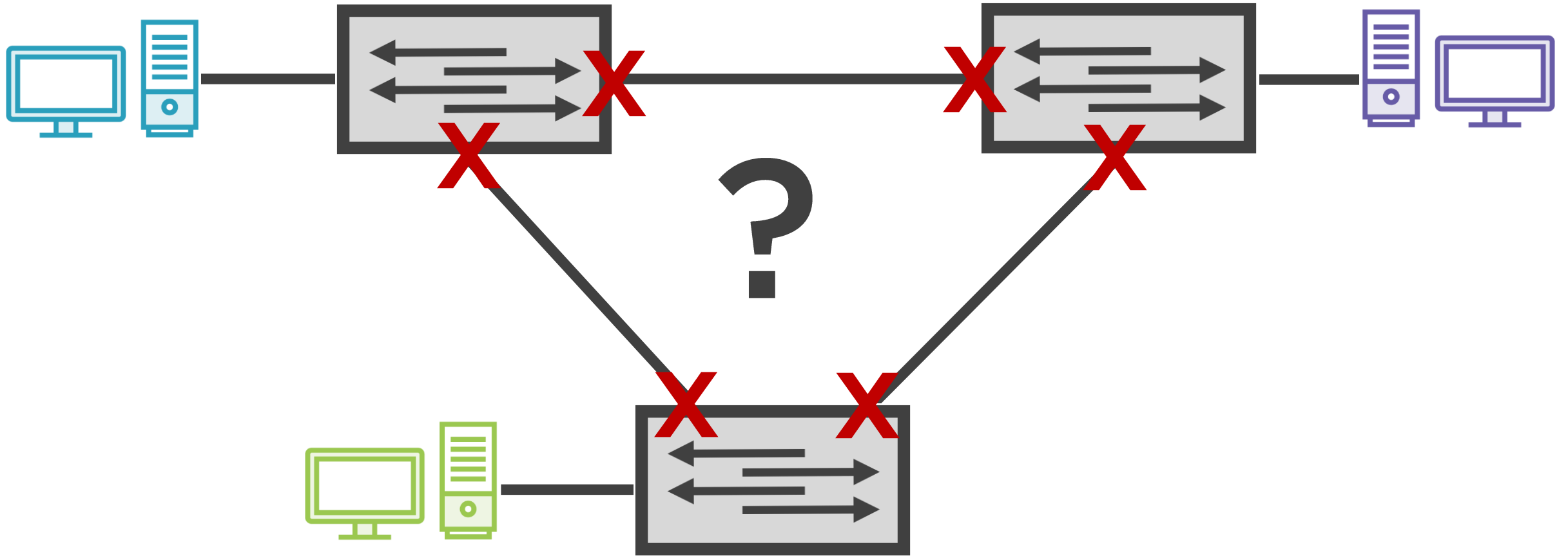
Spanning Tree Protocol Shuts Down Redundancy



Spanning Tree Protocol Shuts Down Redundancy



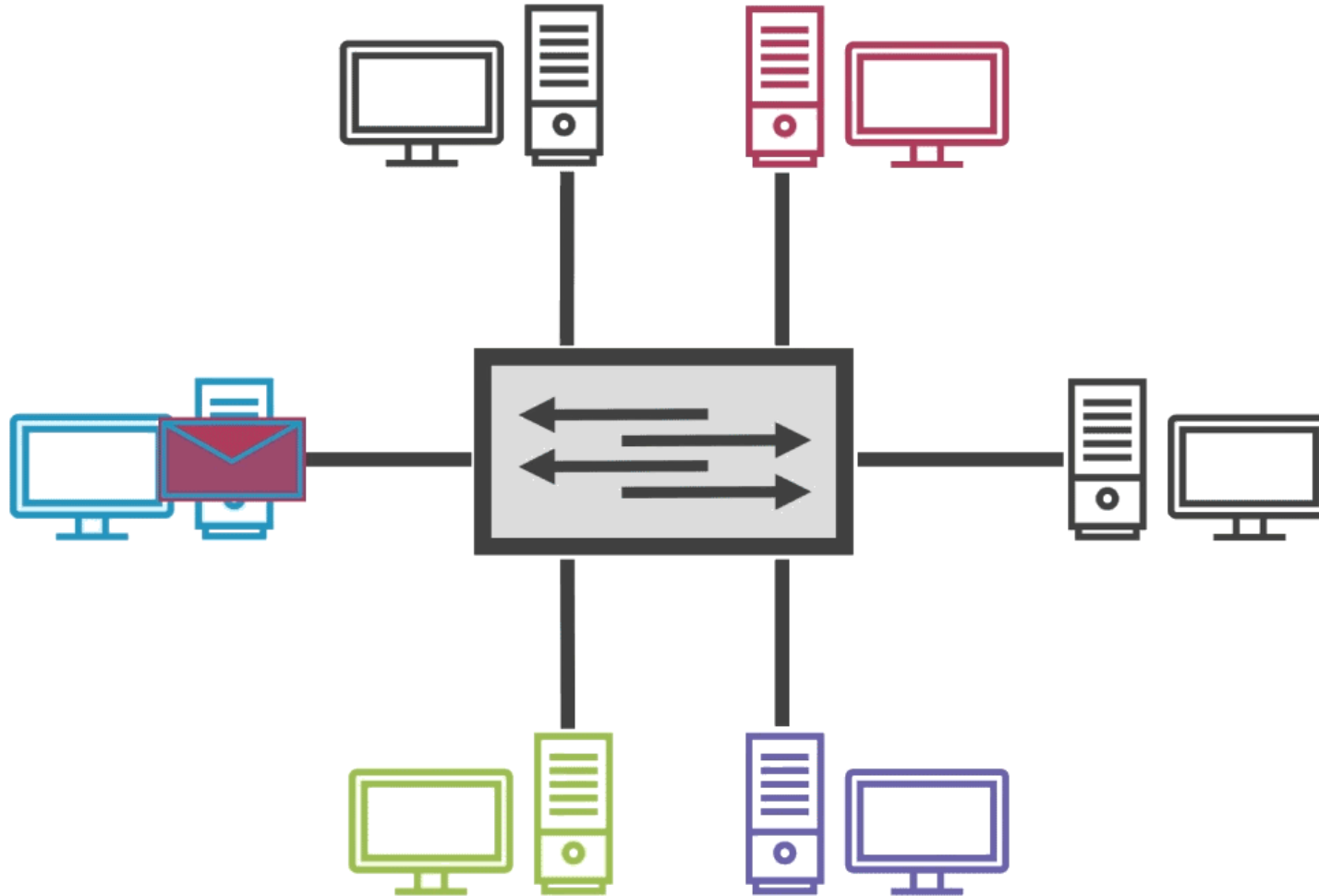
Spanning Tree Protocol



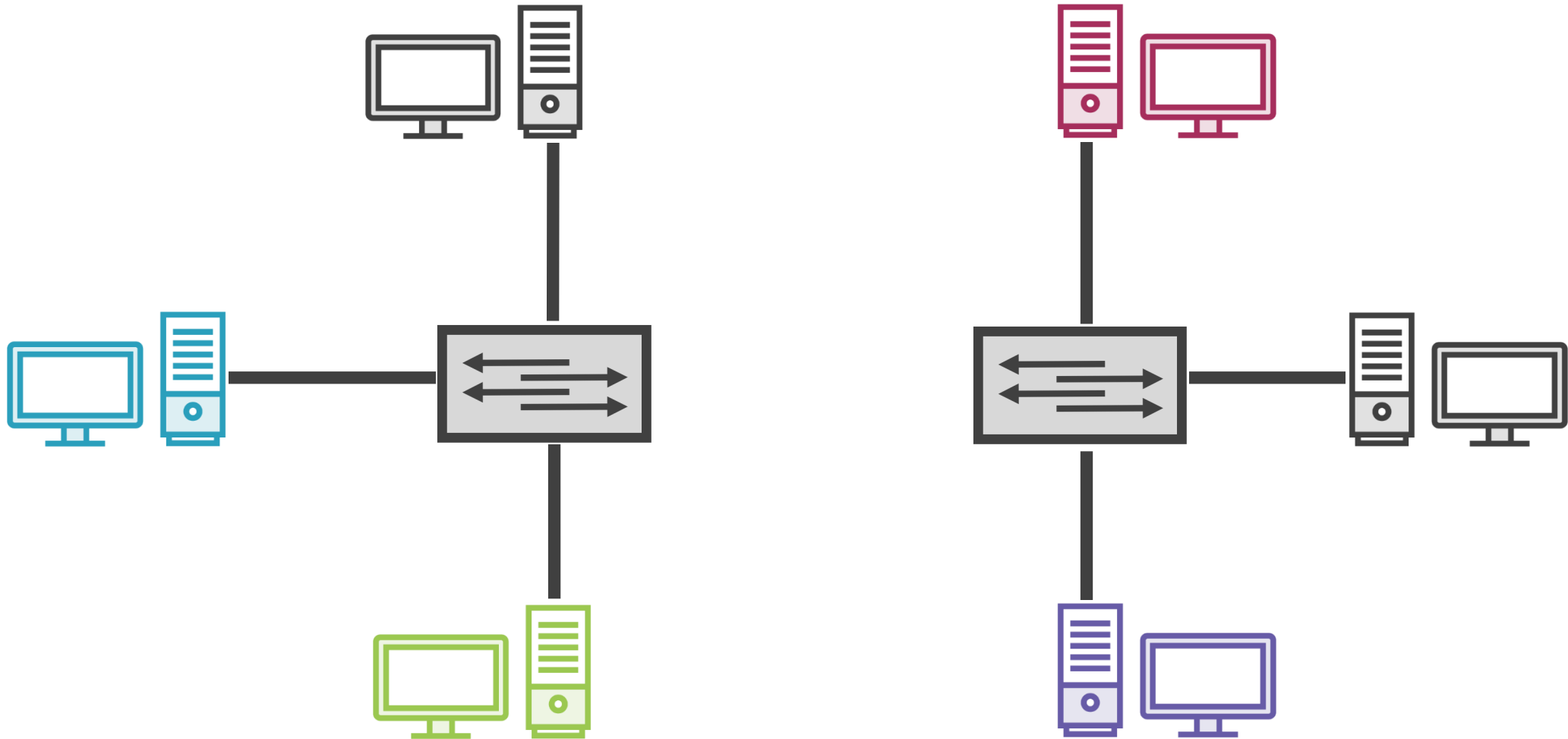
Intro to VLANS



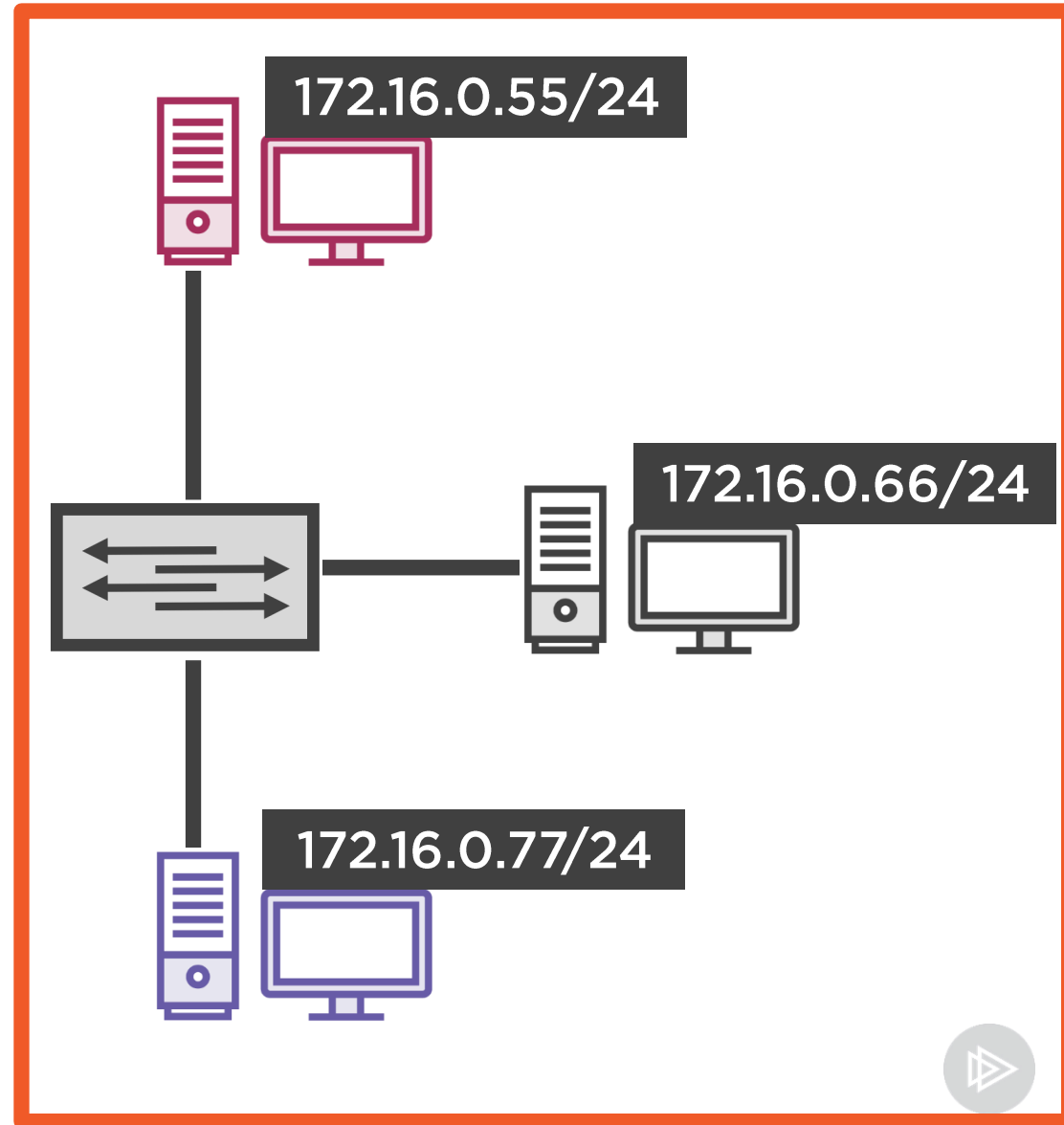
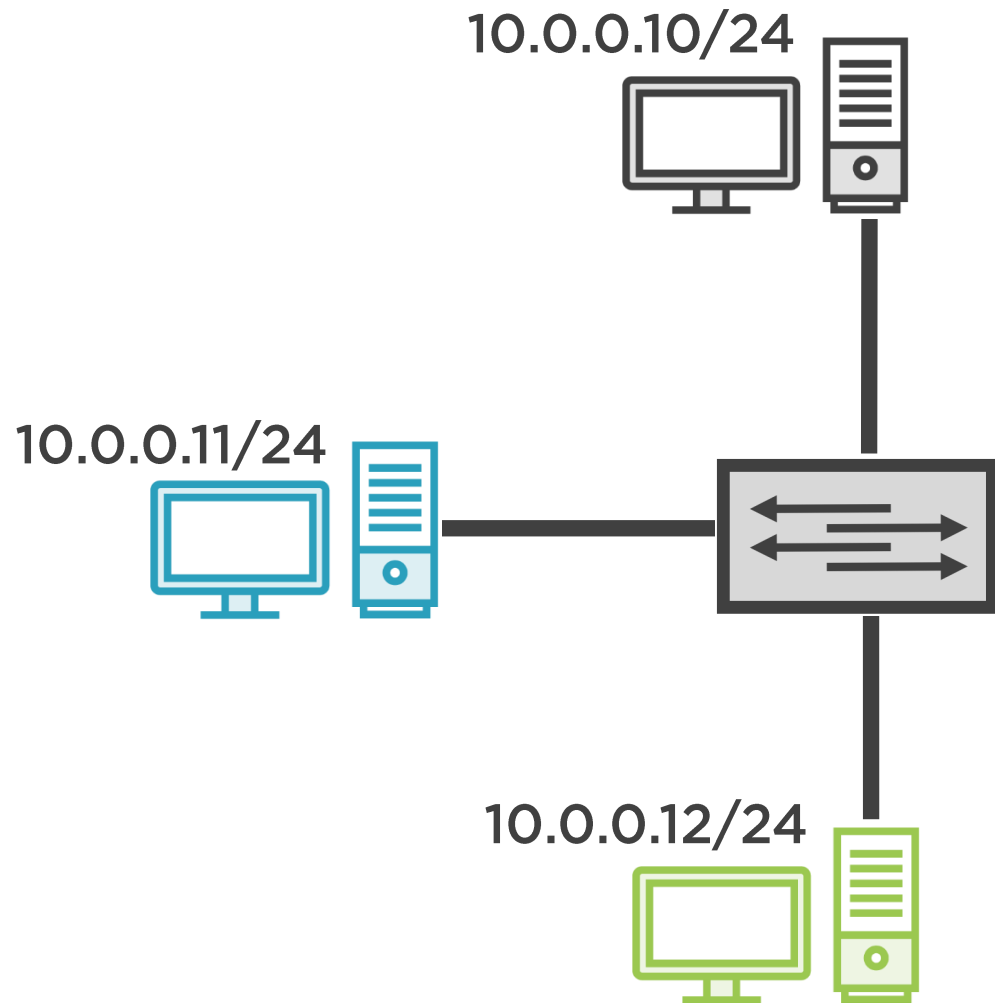
Broadcast Domain



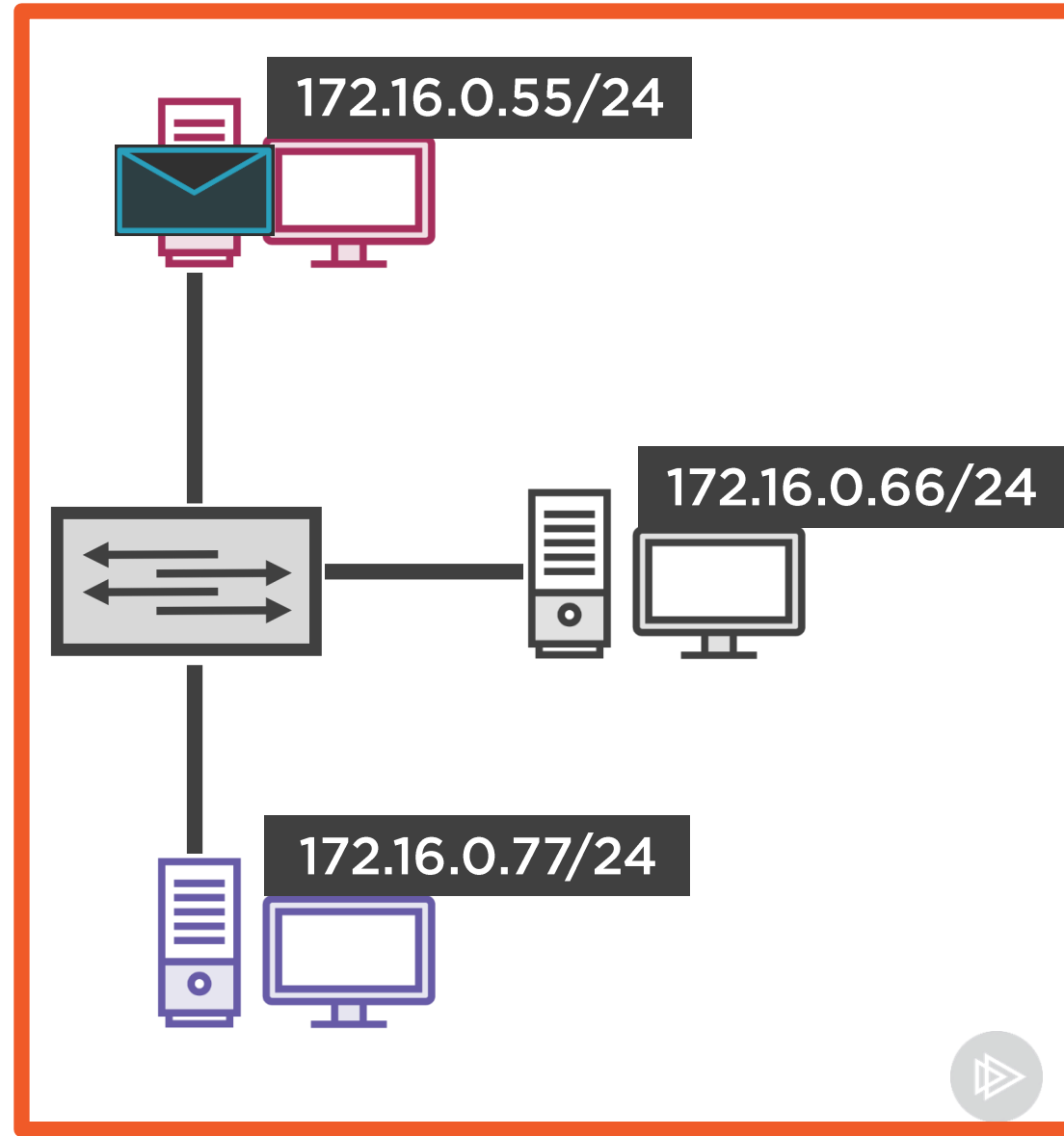
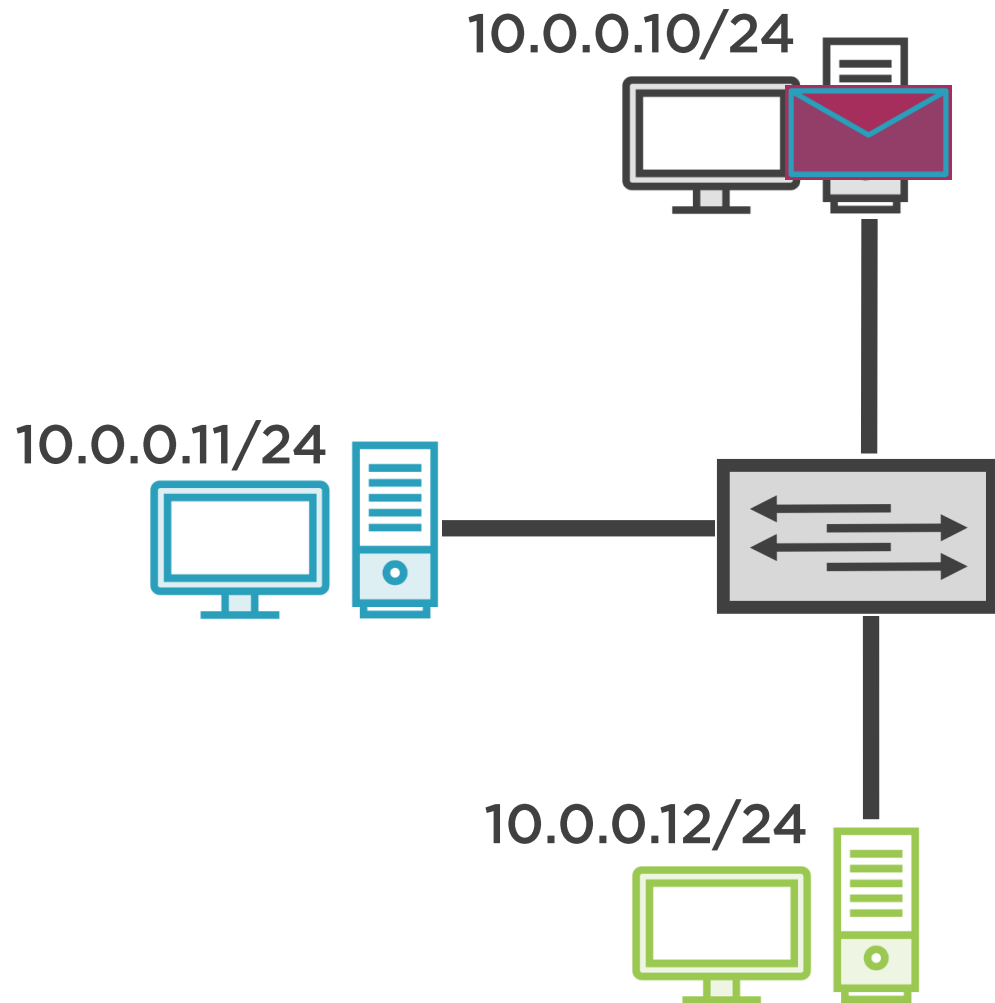
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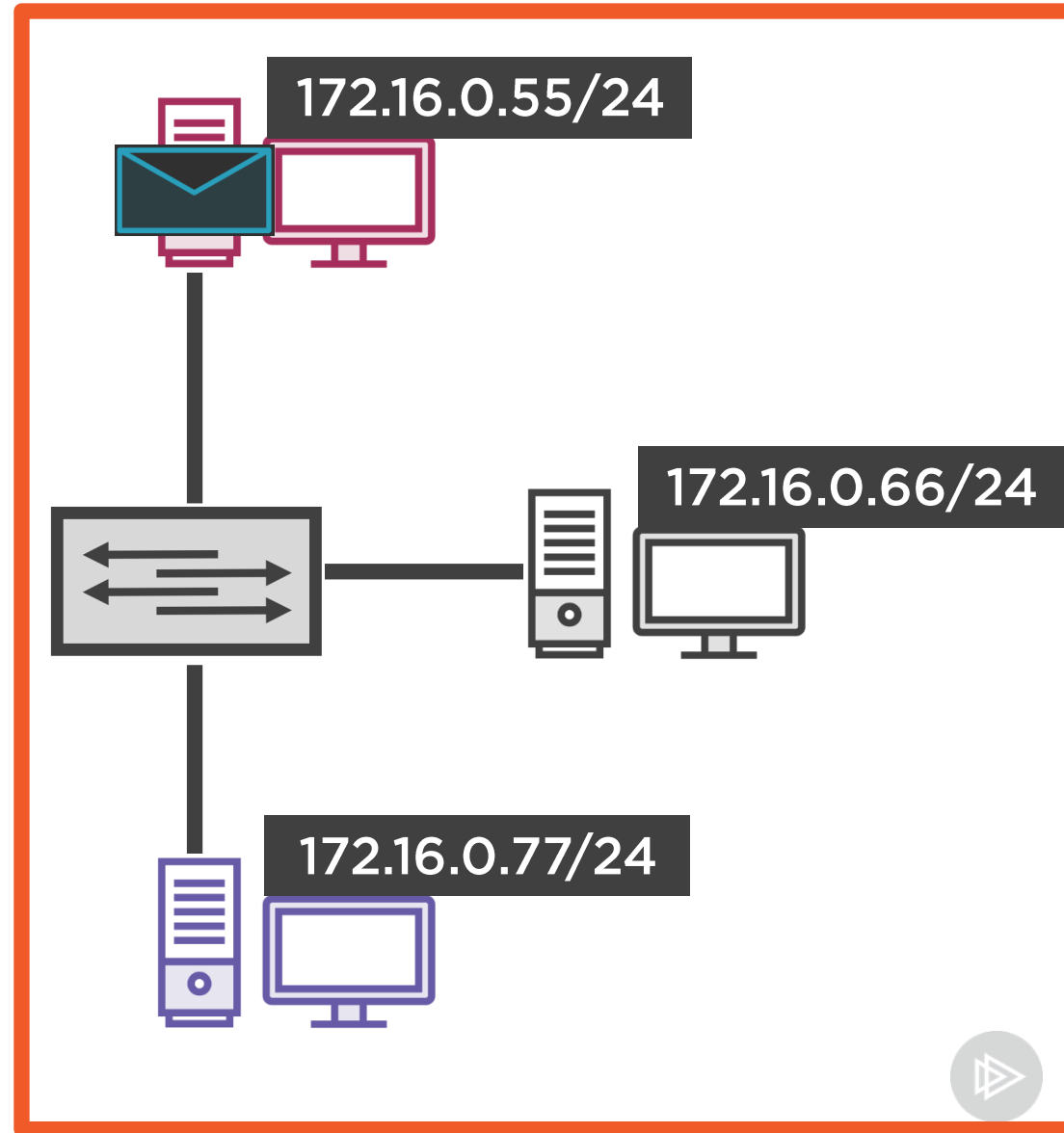
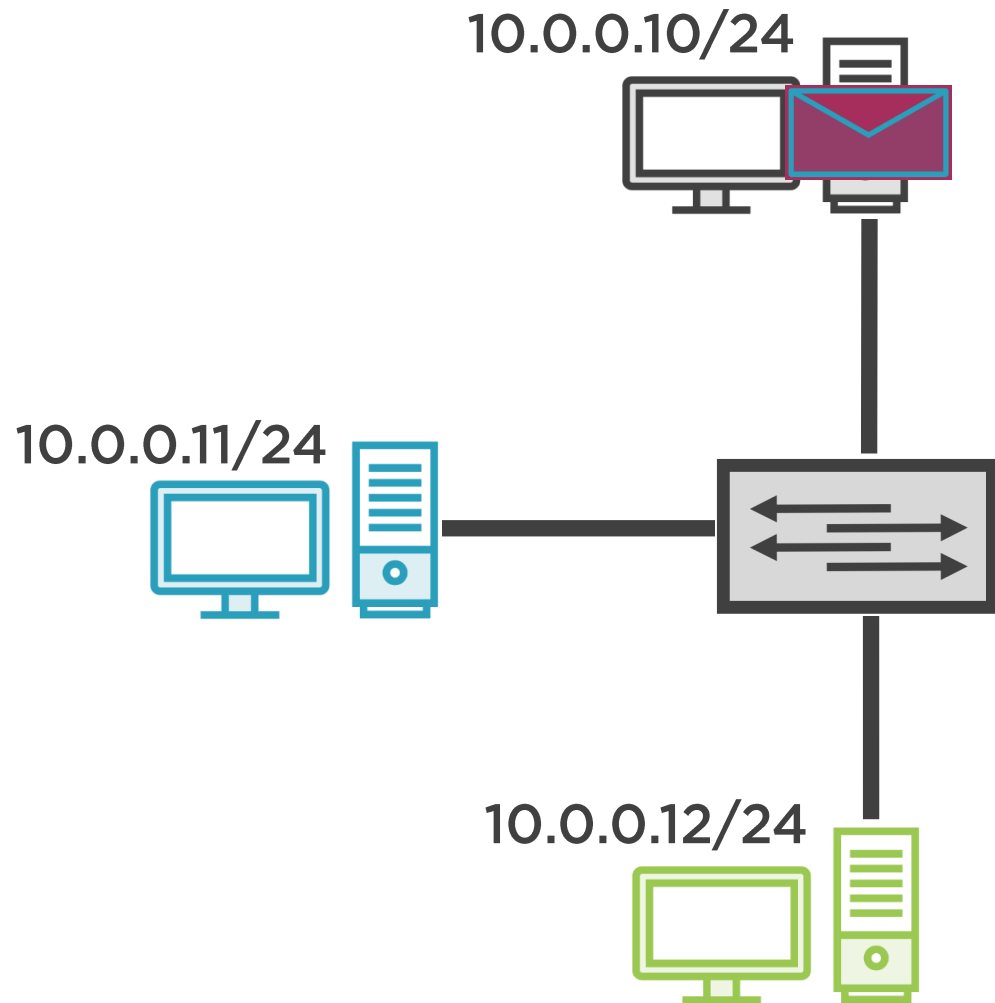
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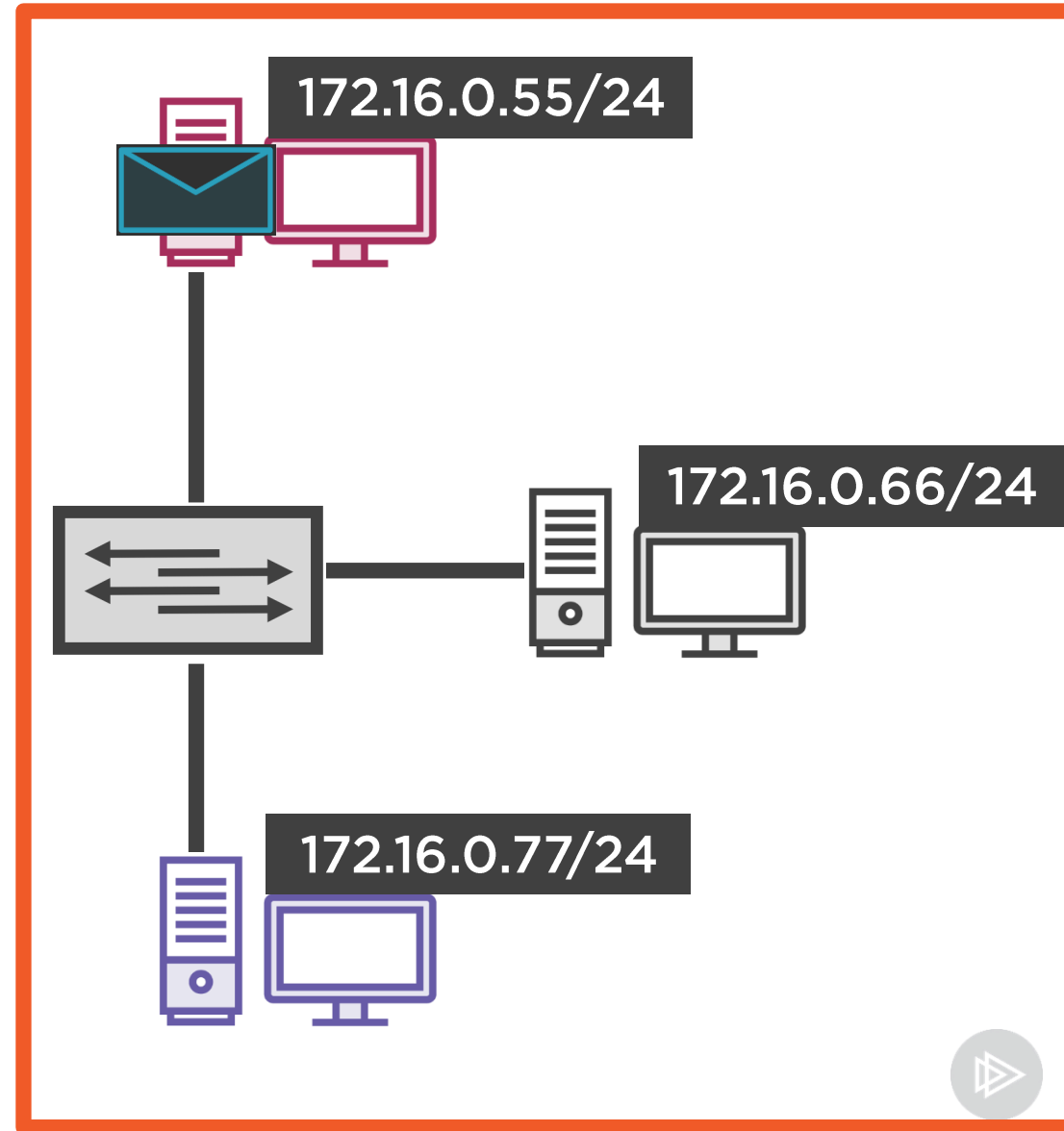
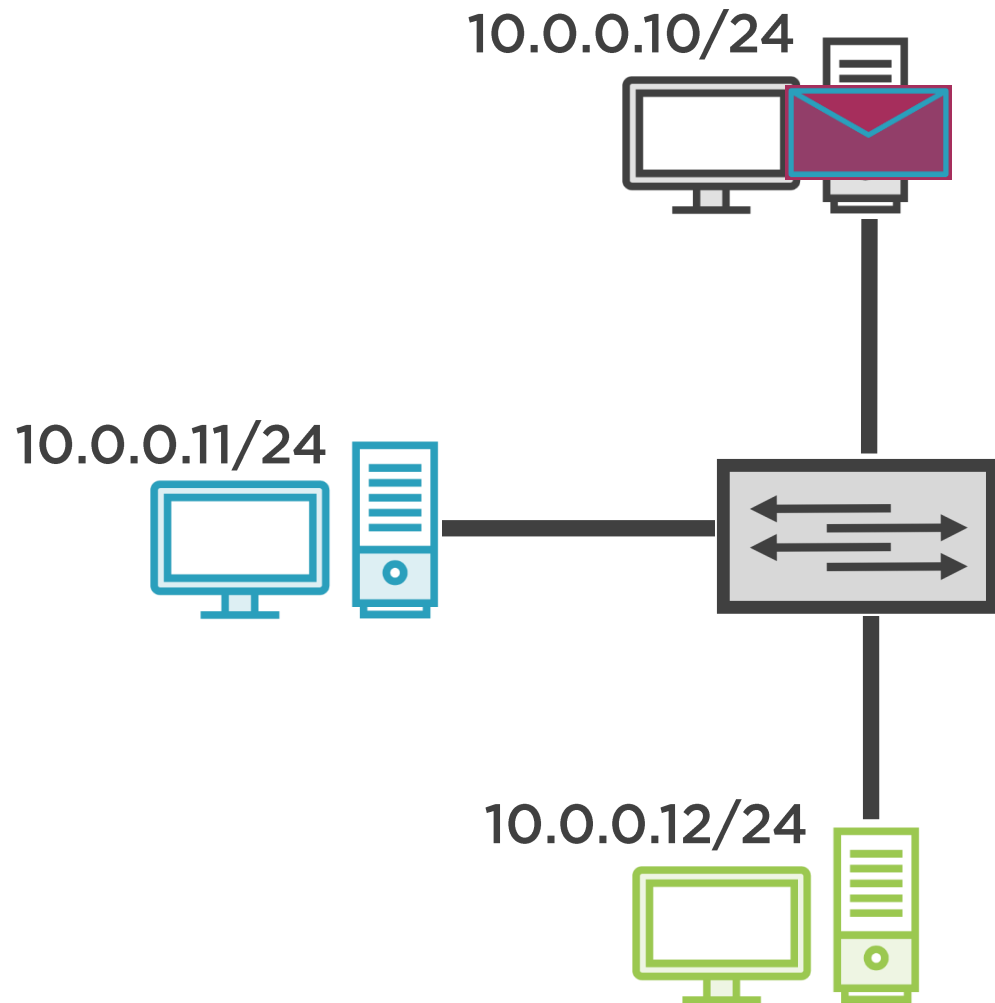
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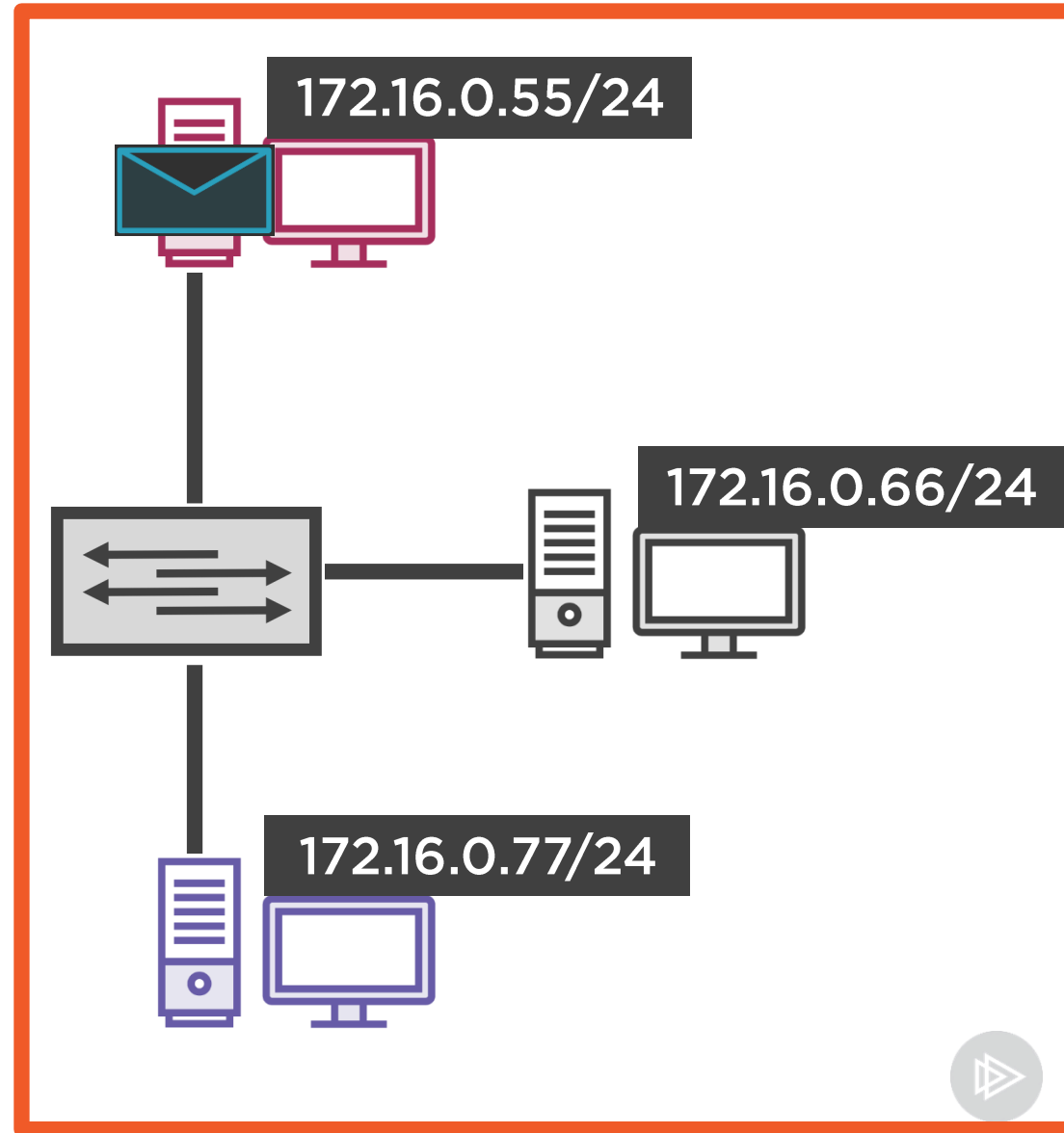
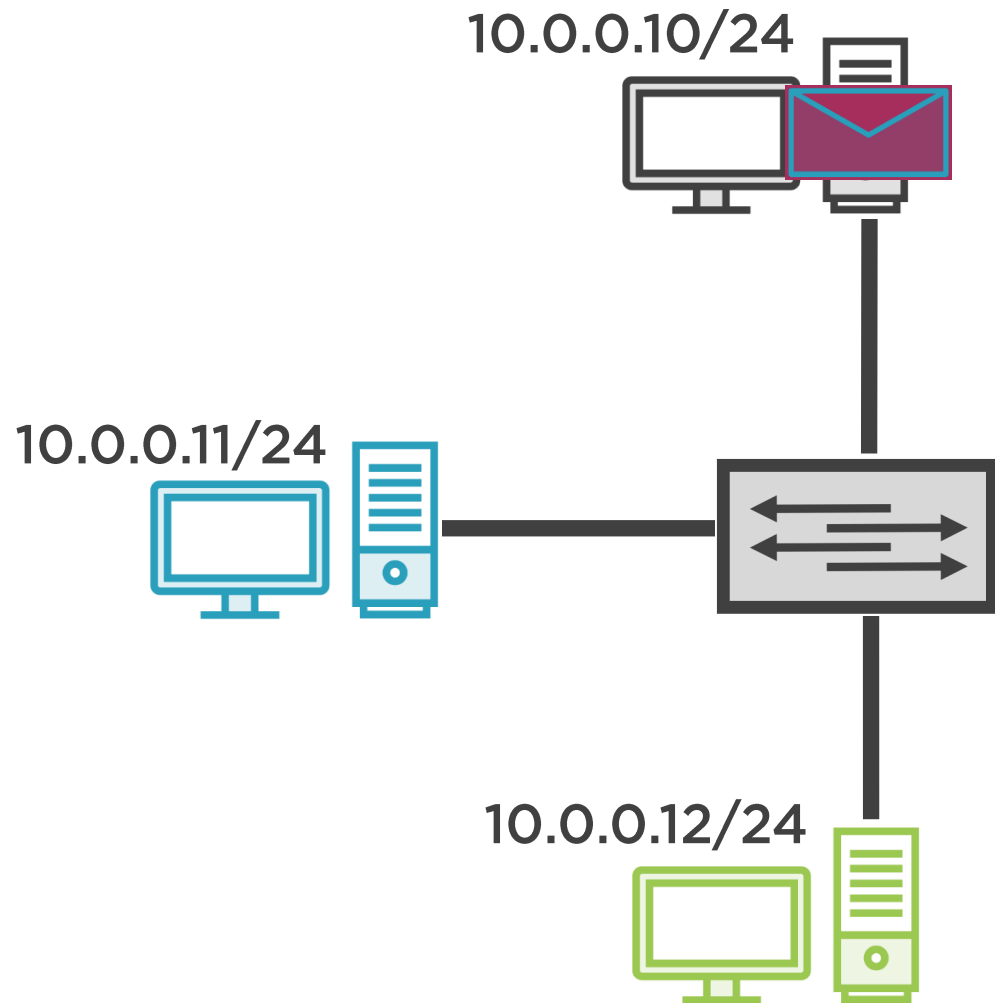
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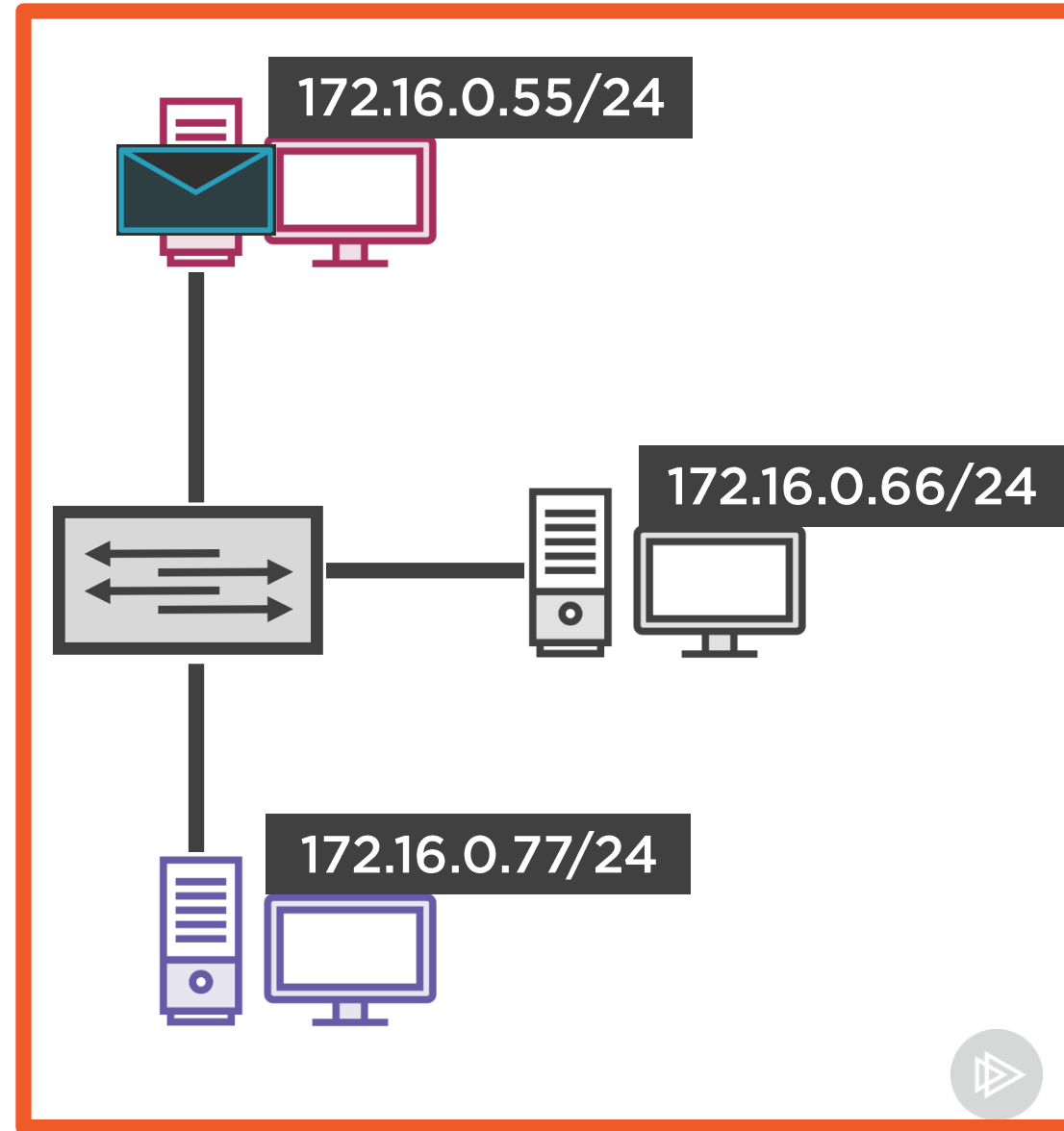
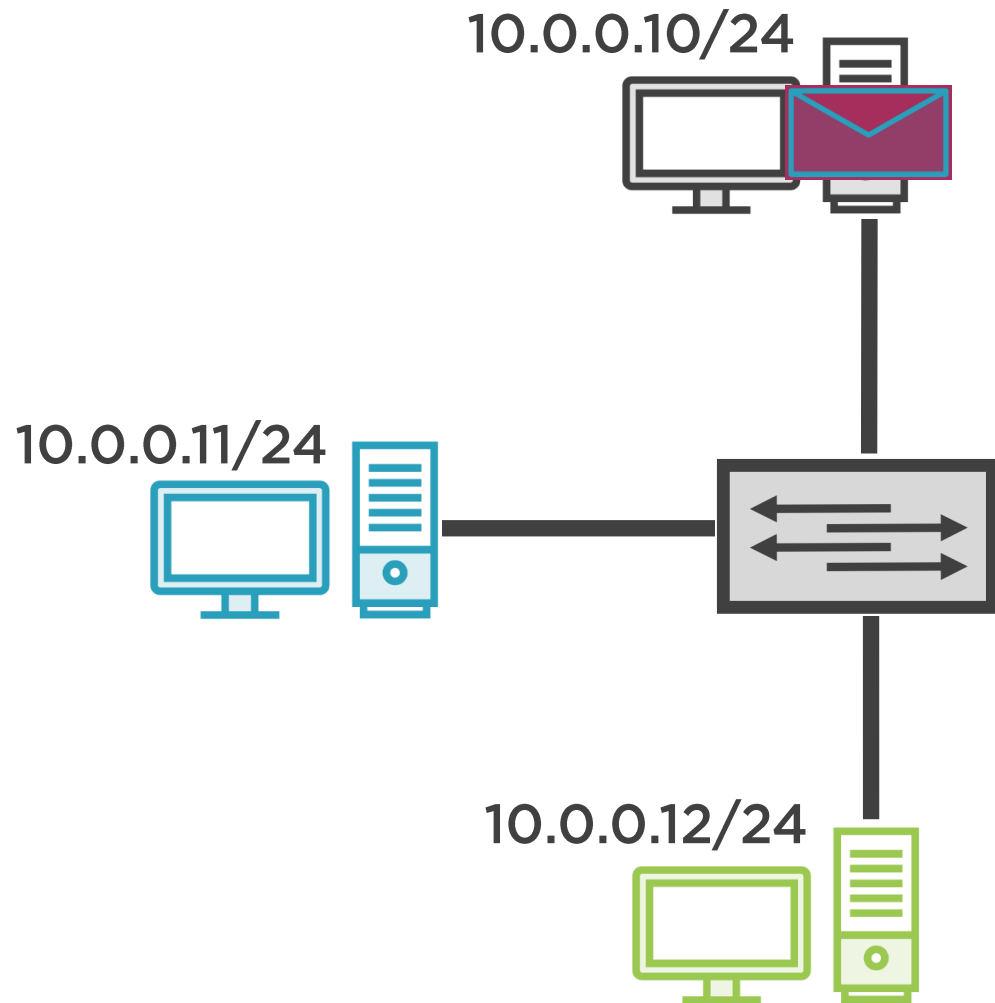
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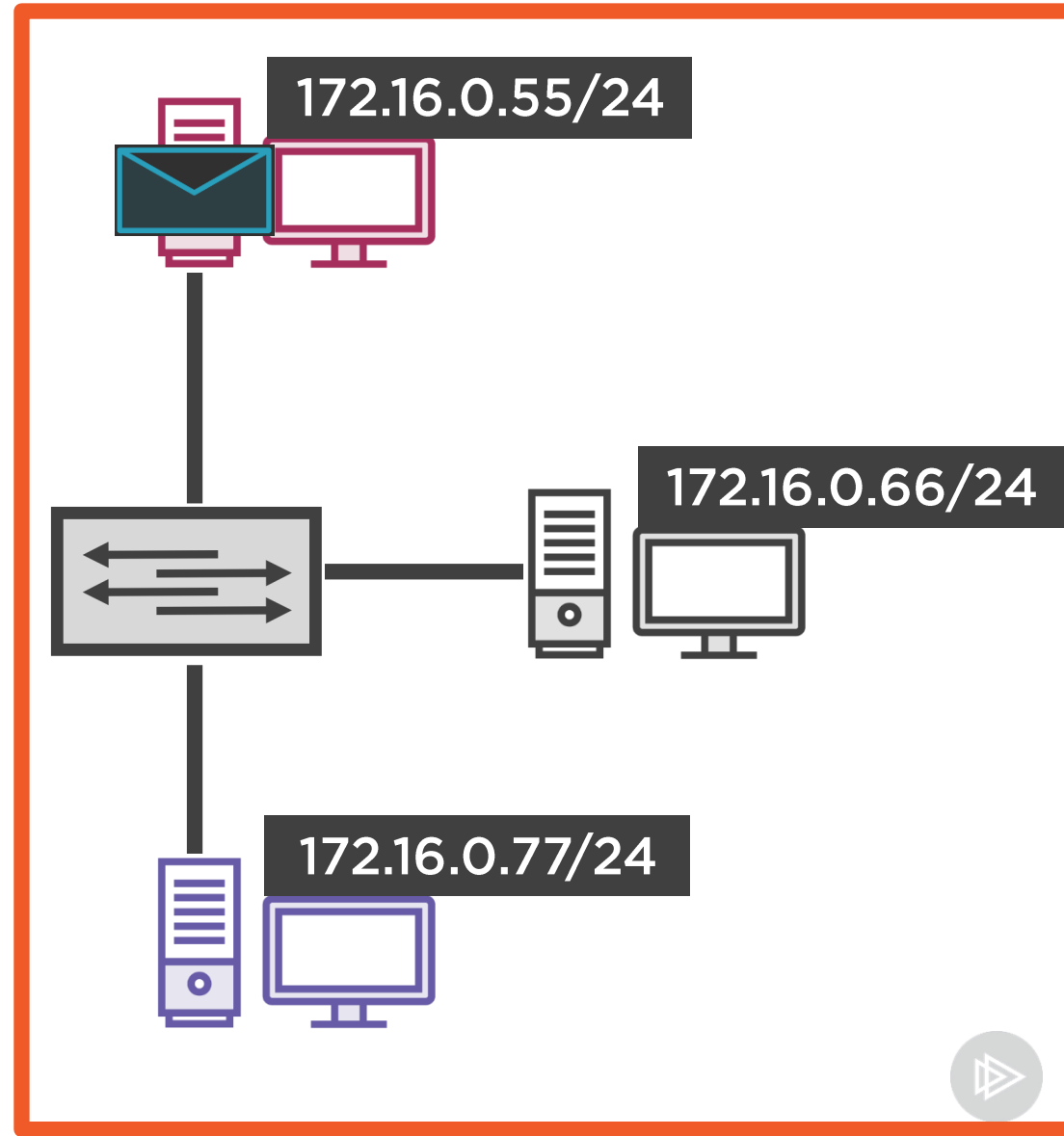
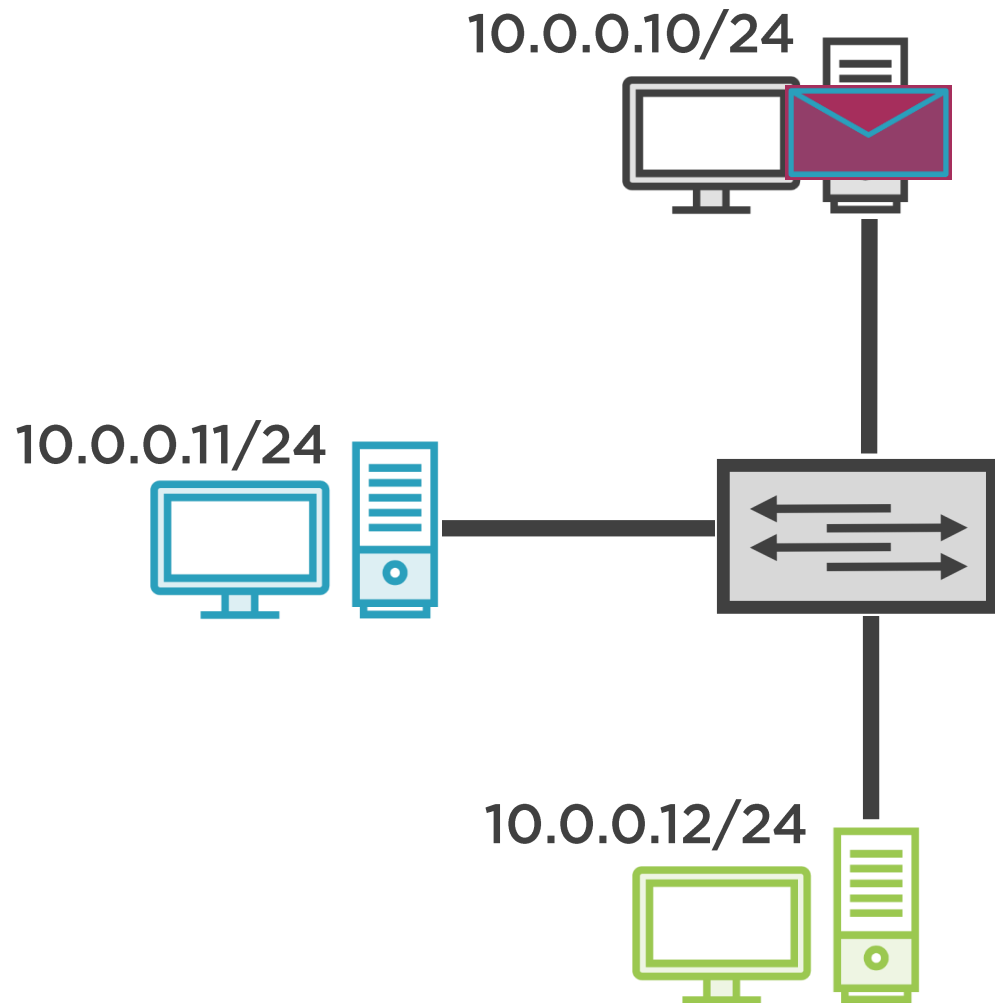
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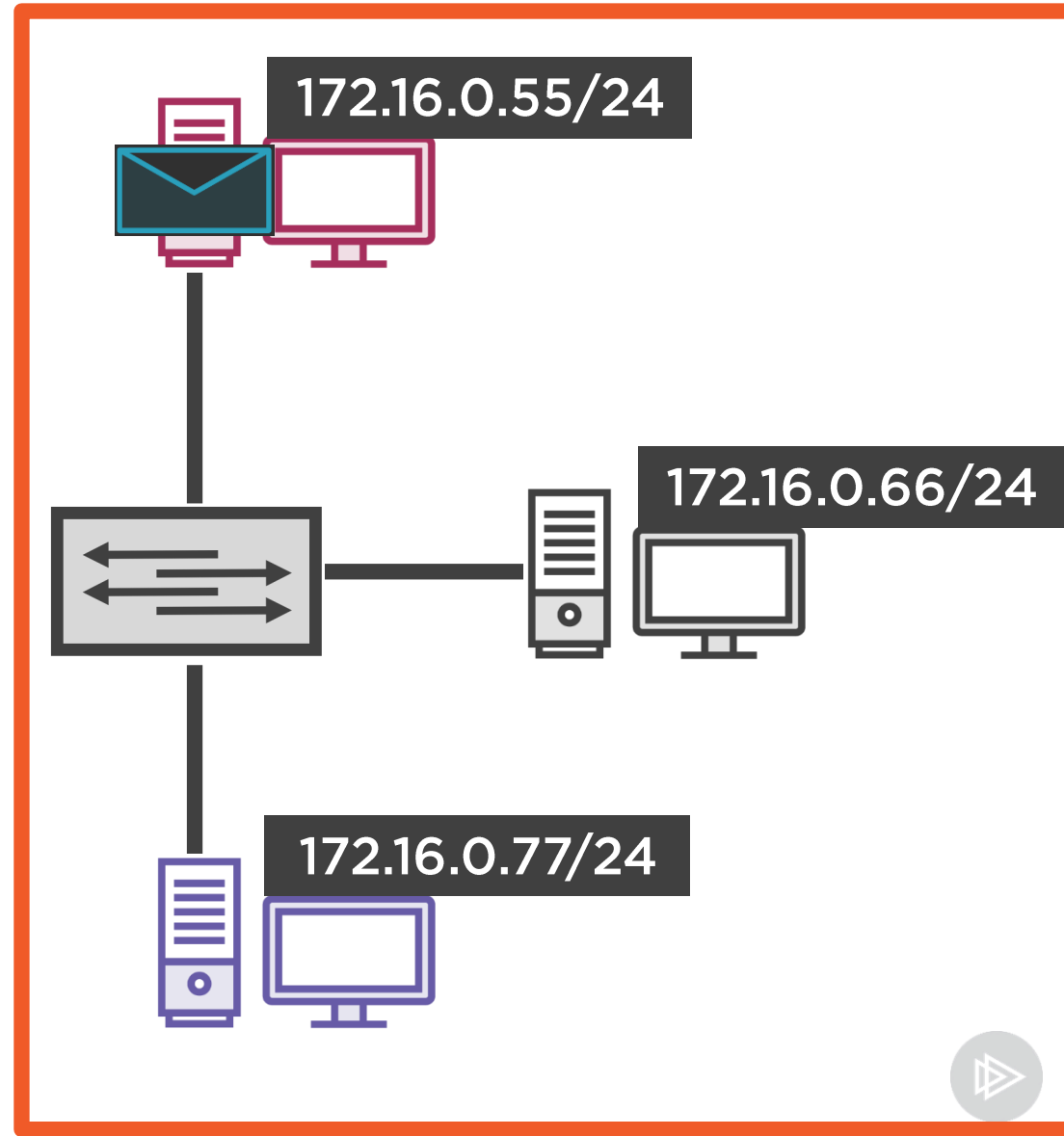
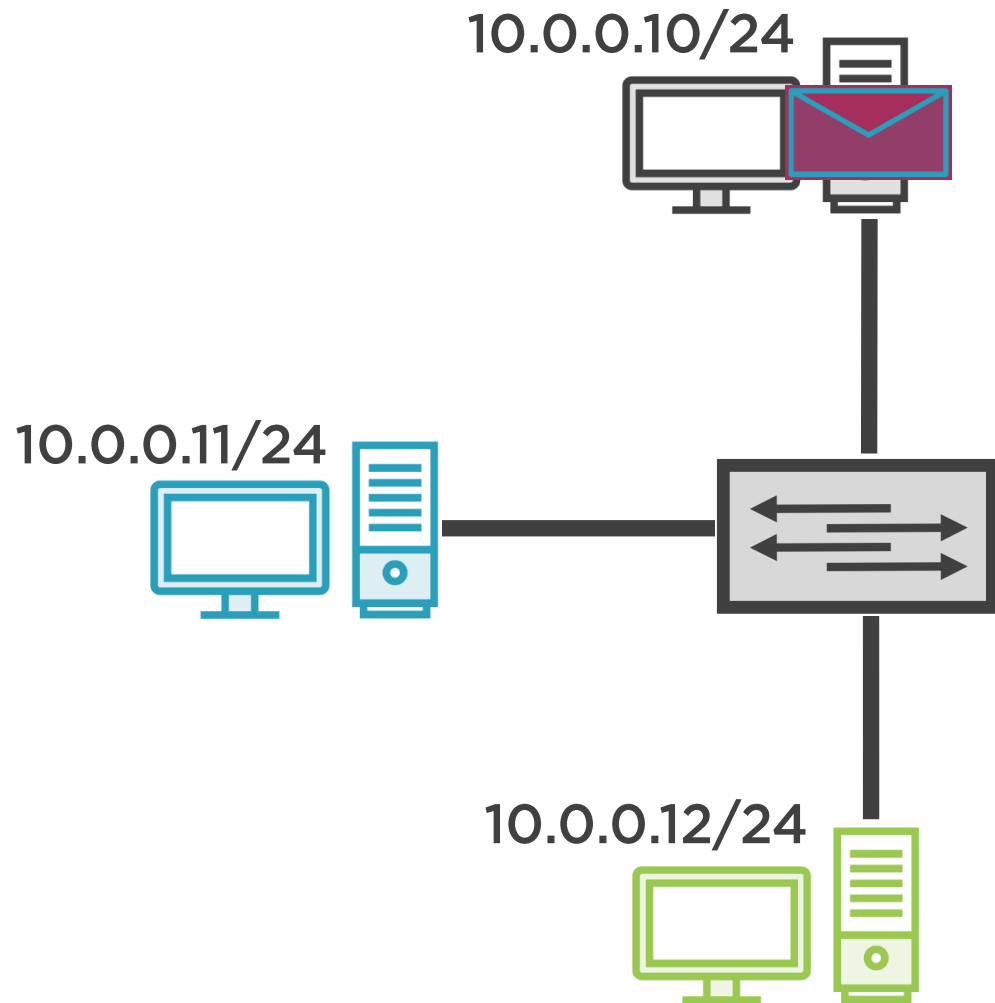
Broadcast Domain



Broadcast Domain



Broadcast Domain



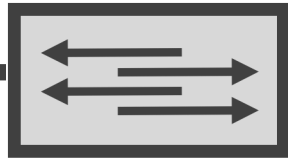
Broadcast Domain

1

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10.0.0.11/24



10.0.0.12/24

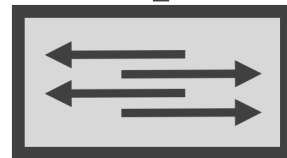


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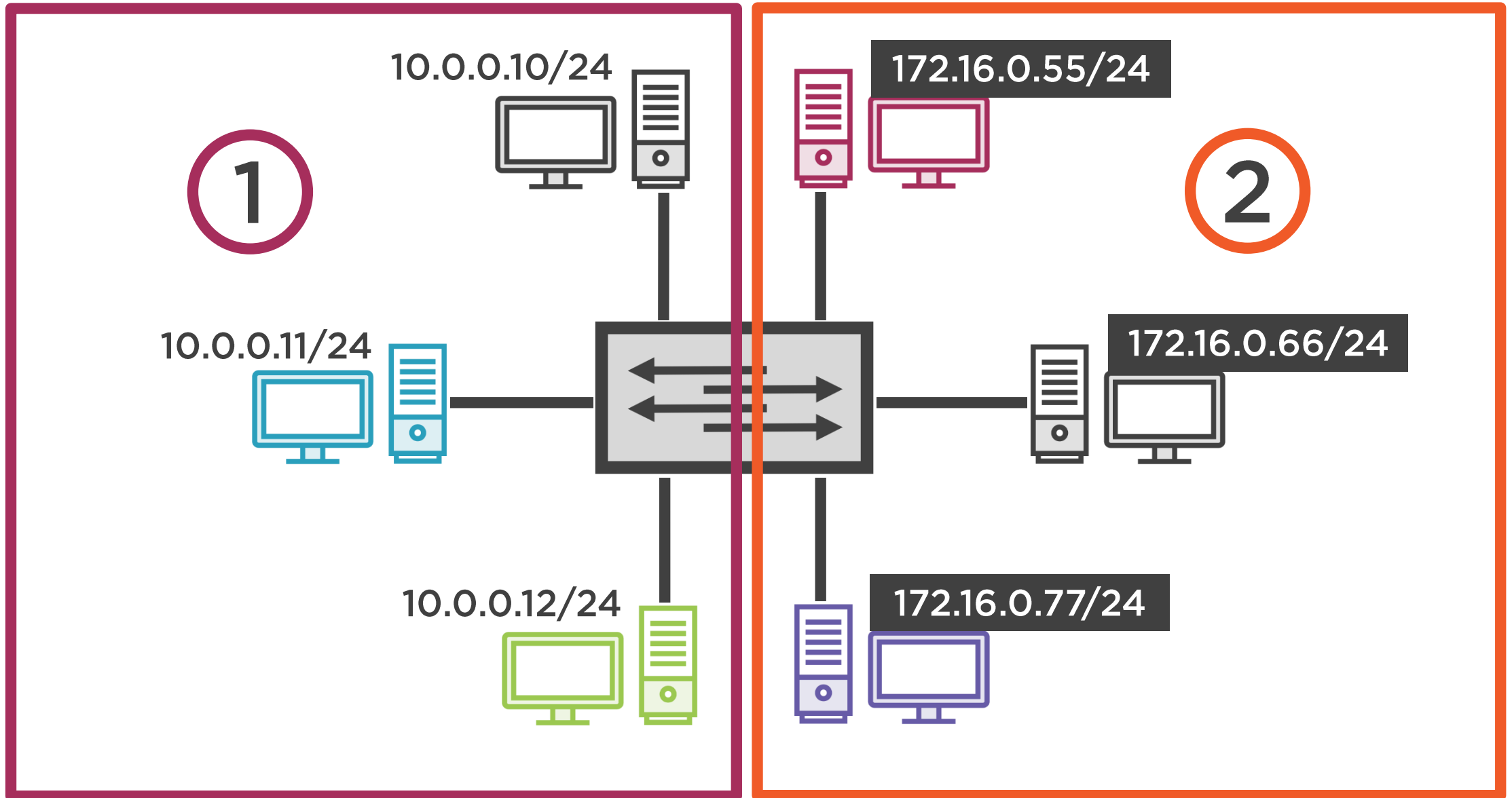
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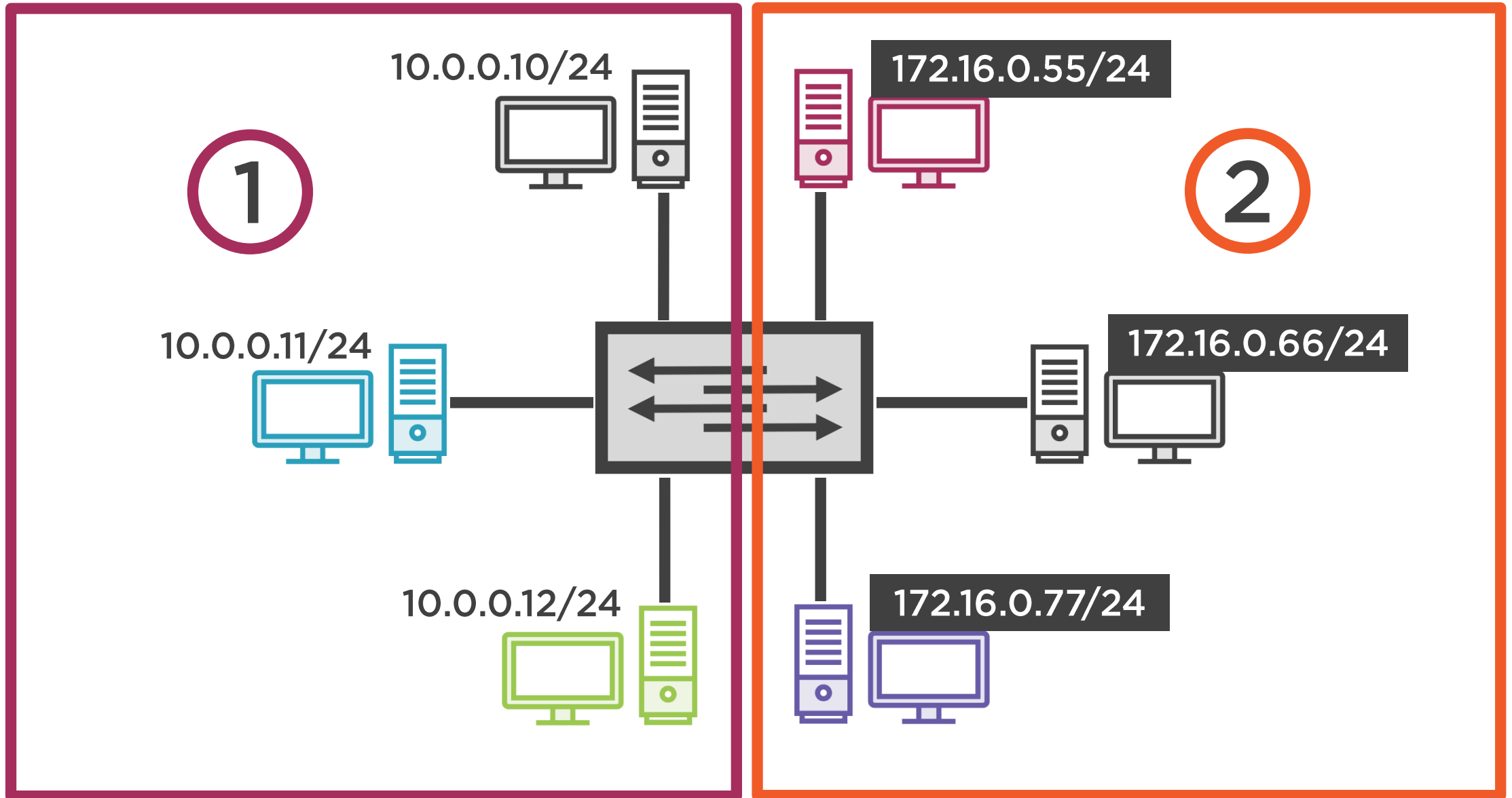
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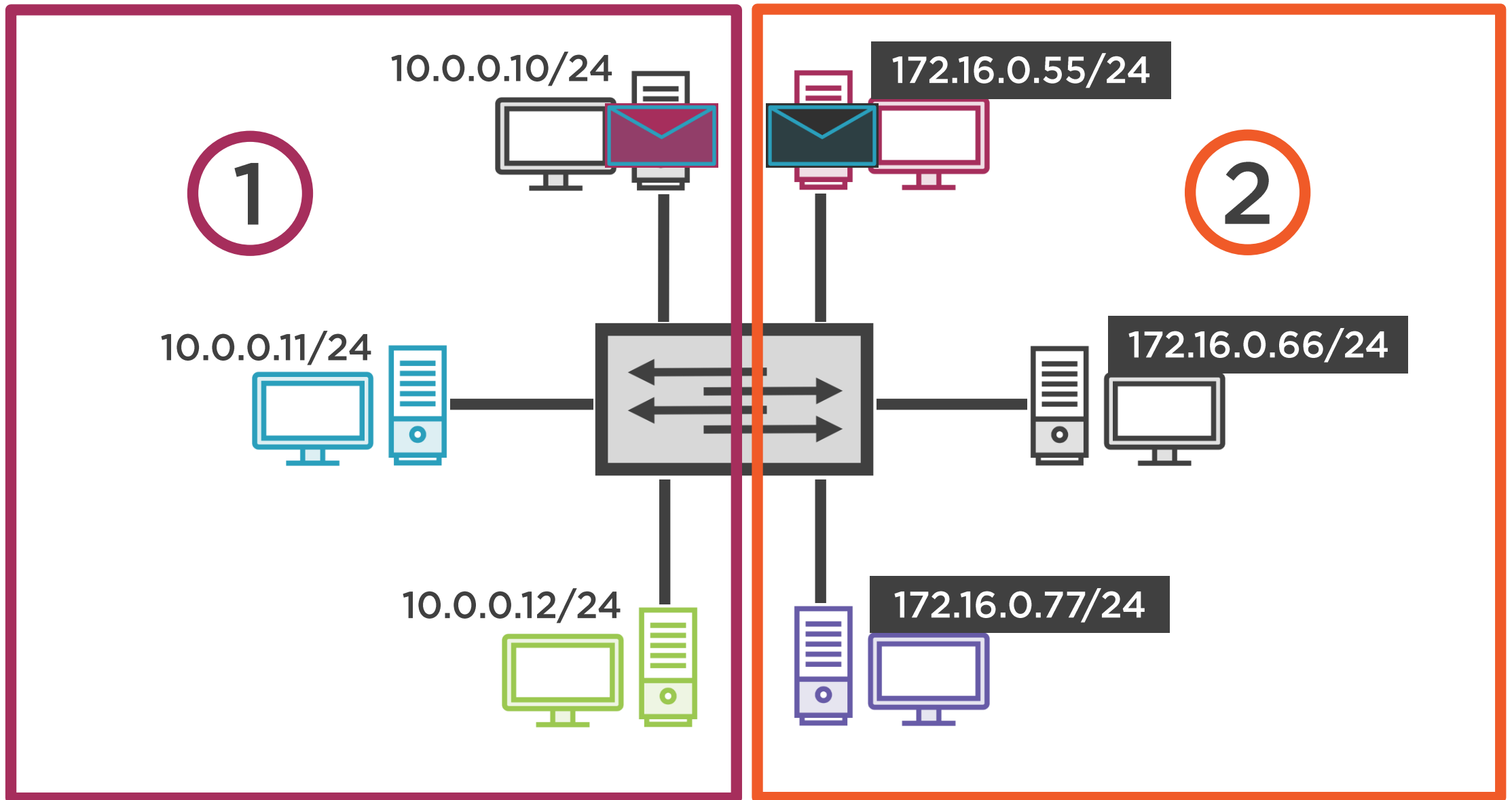
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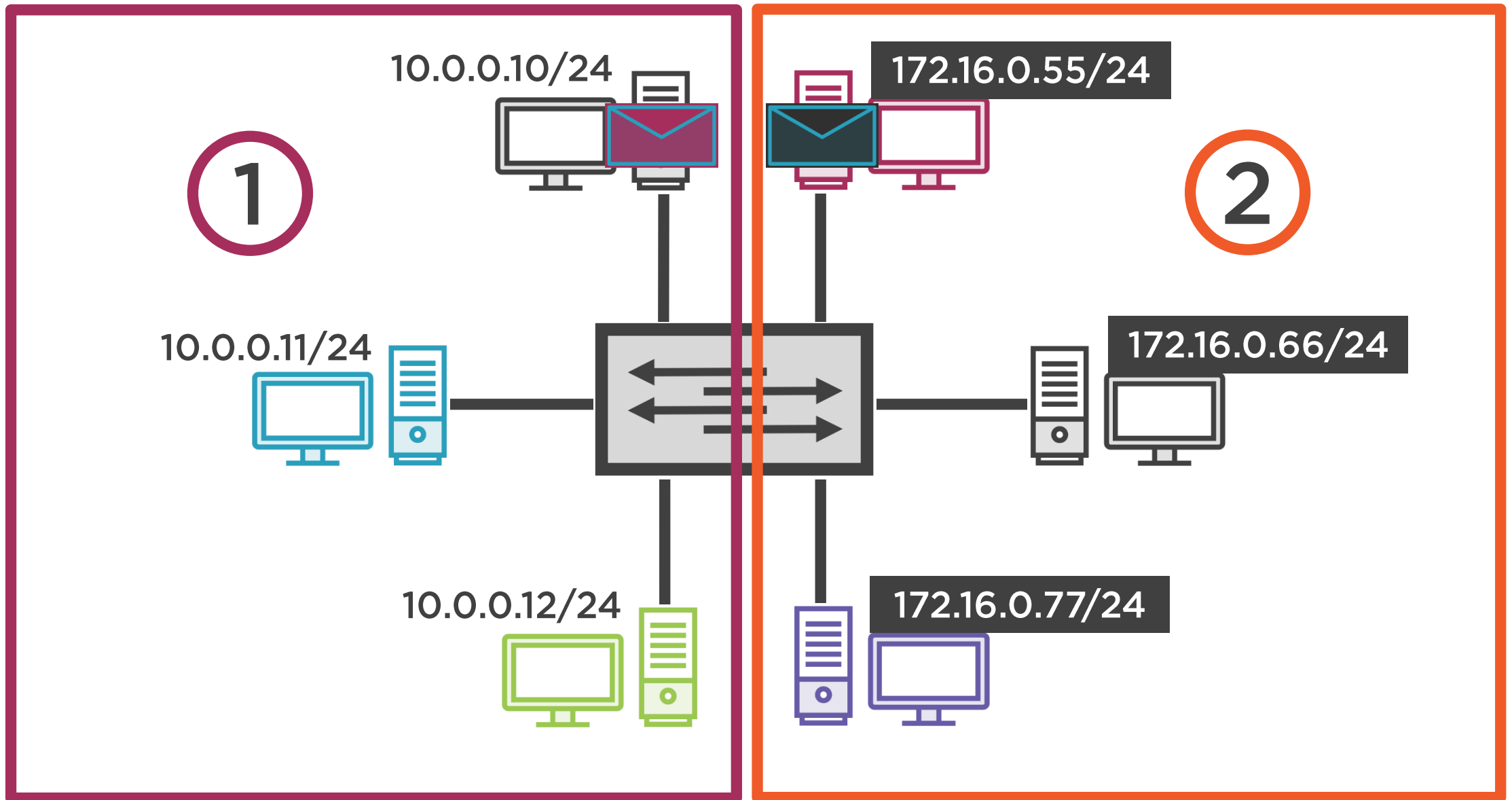
VLANs



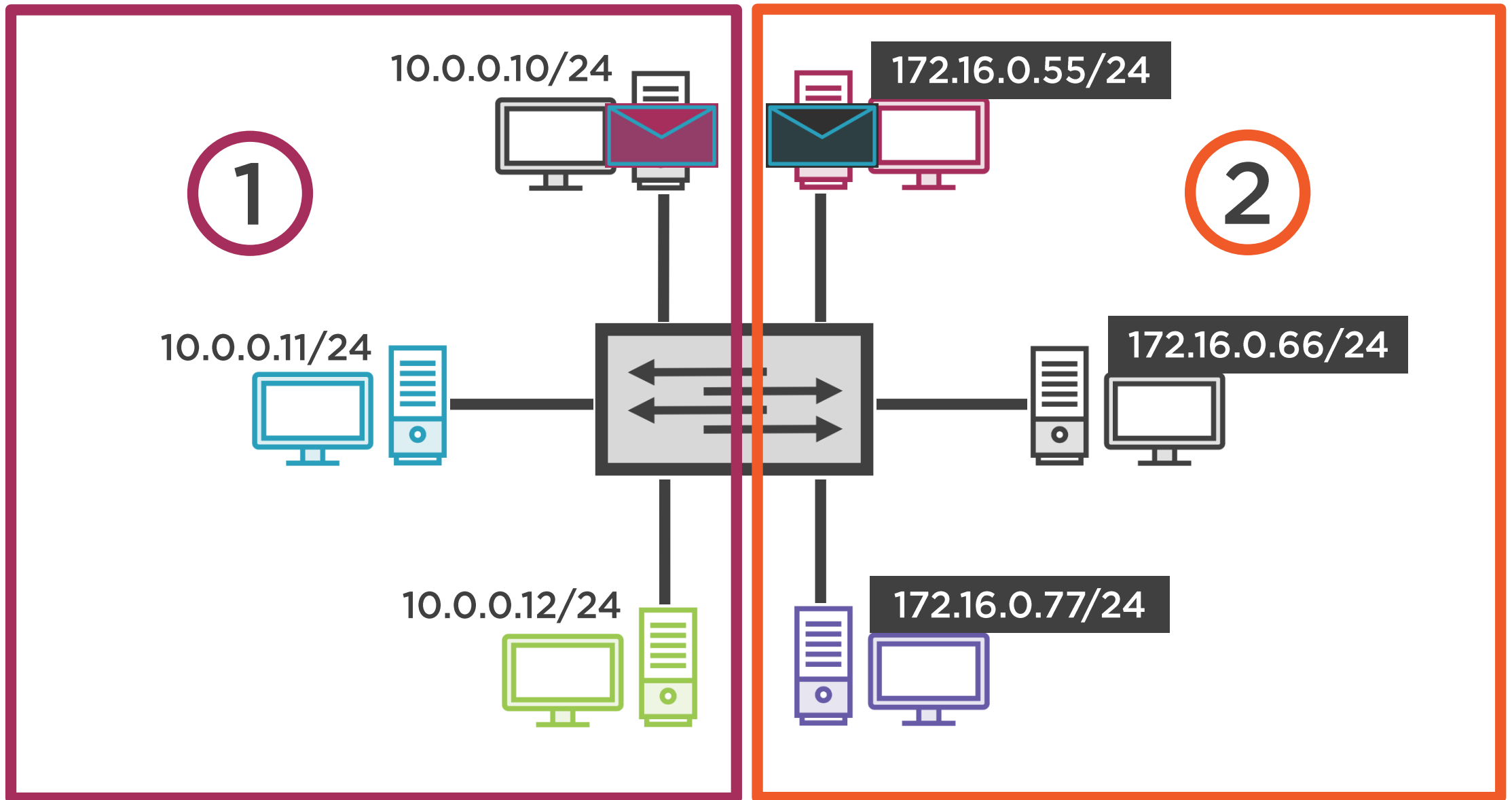
VLANs



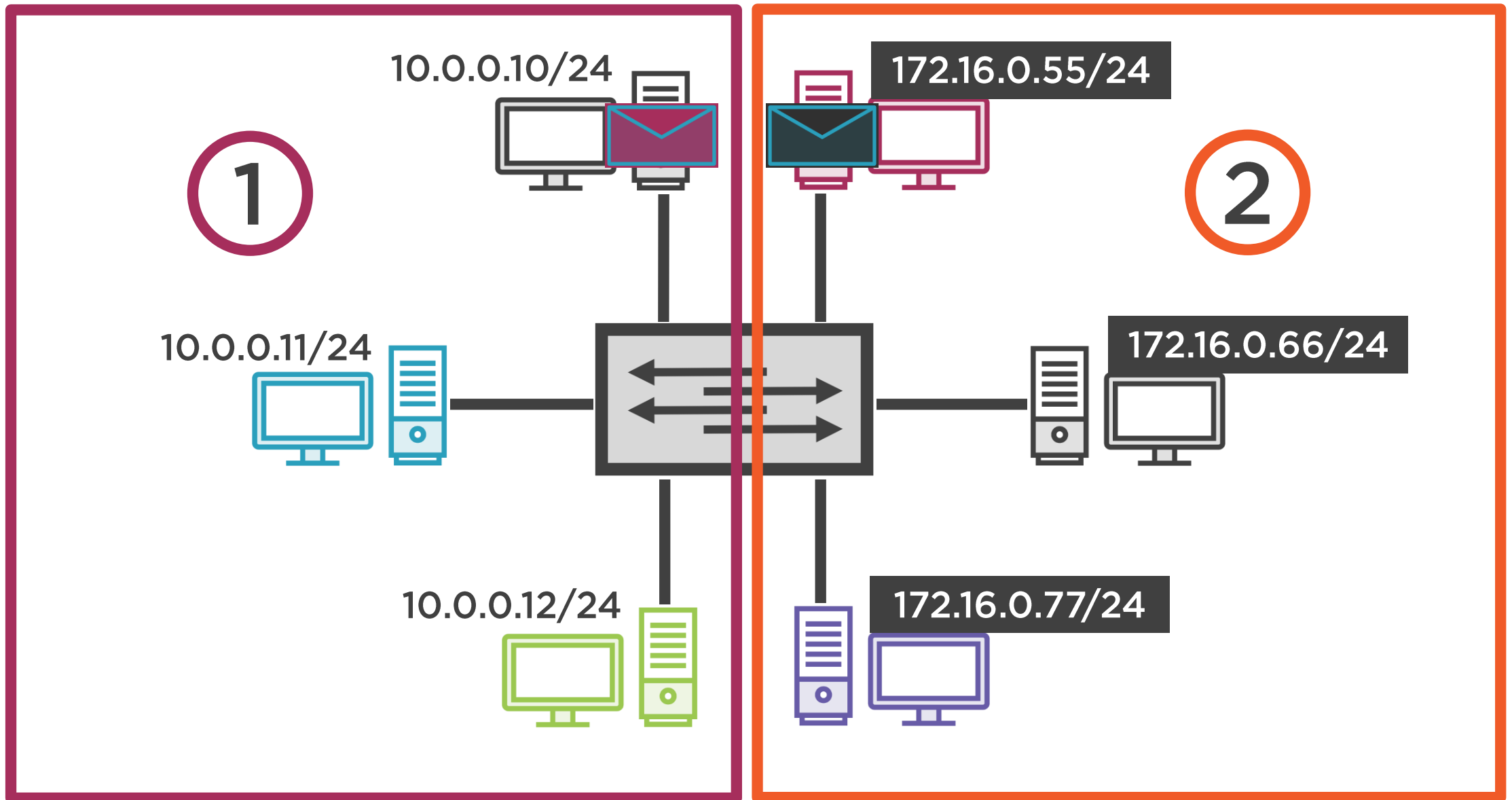
VLANs



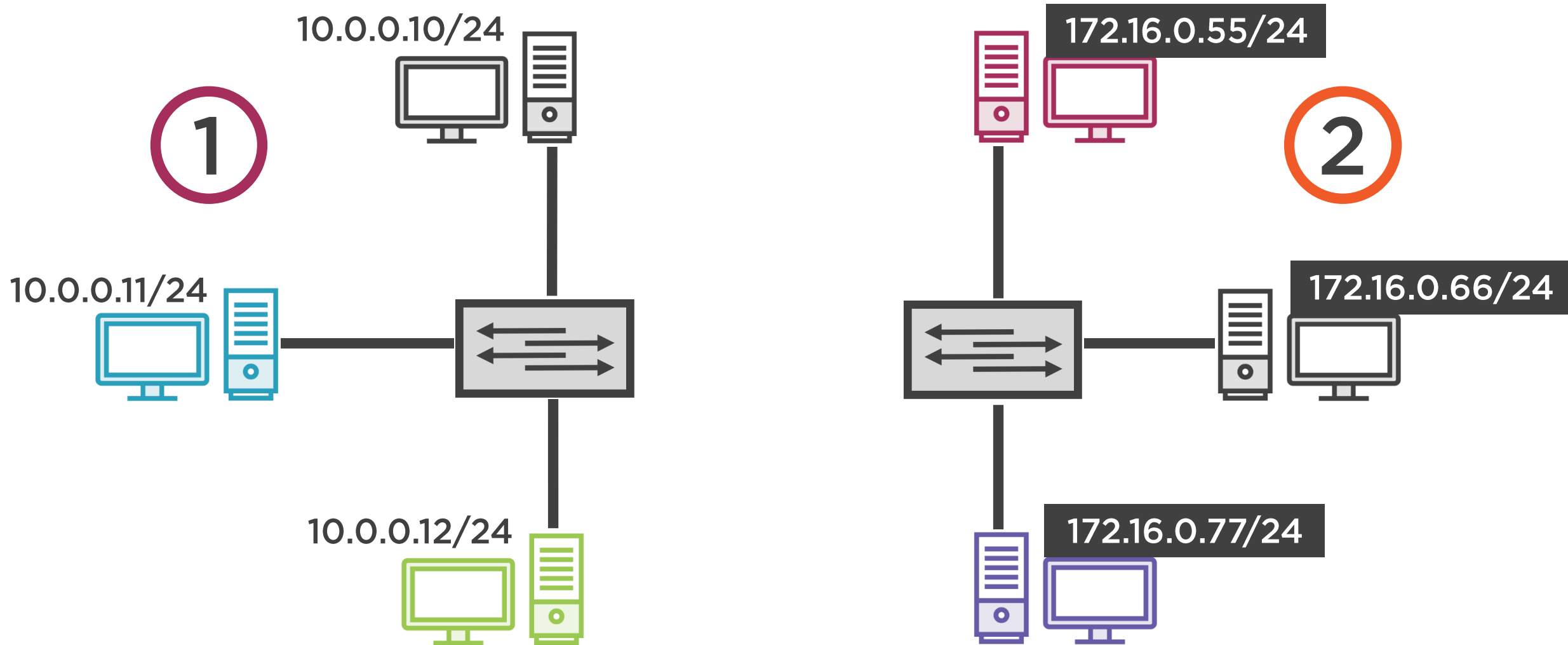
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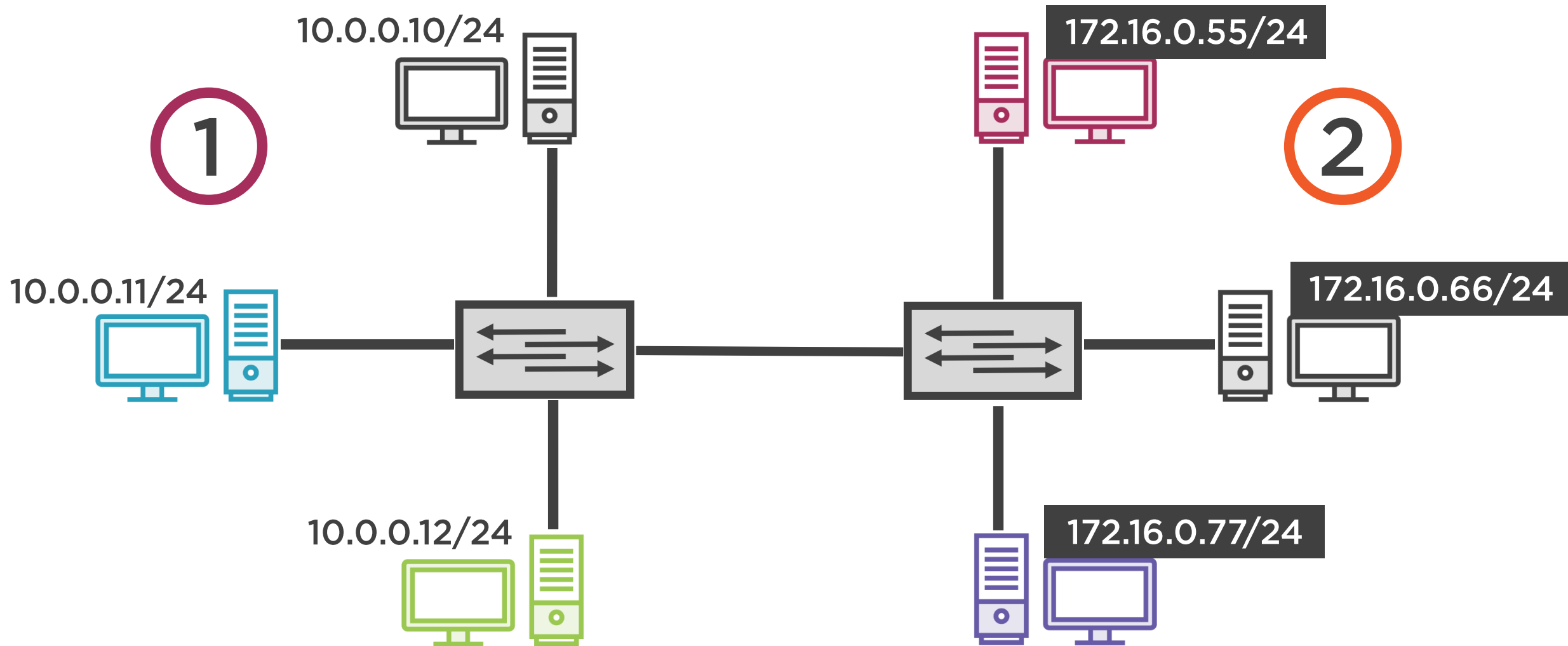
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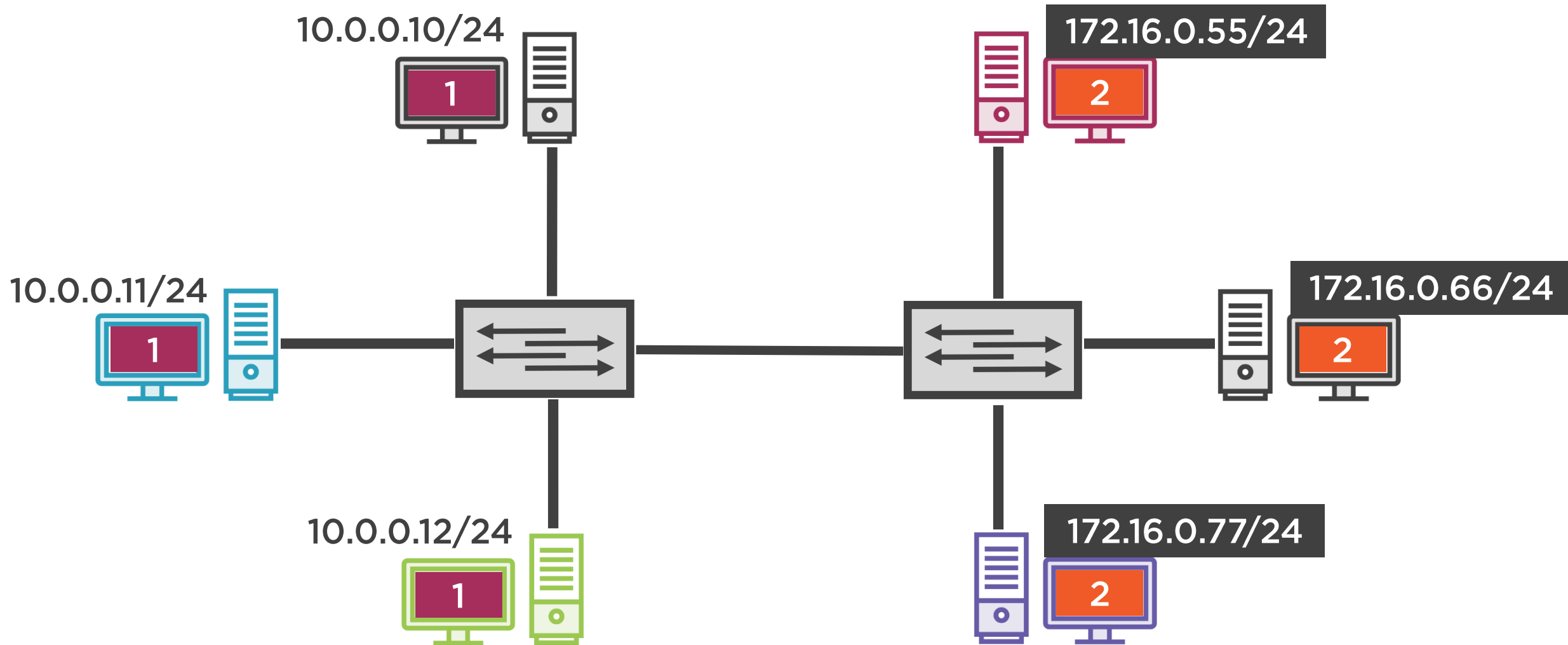
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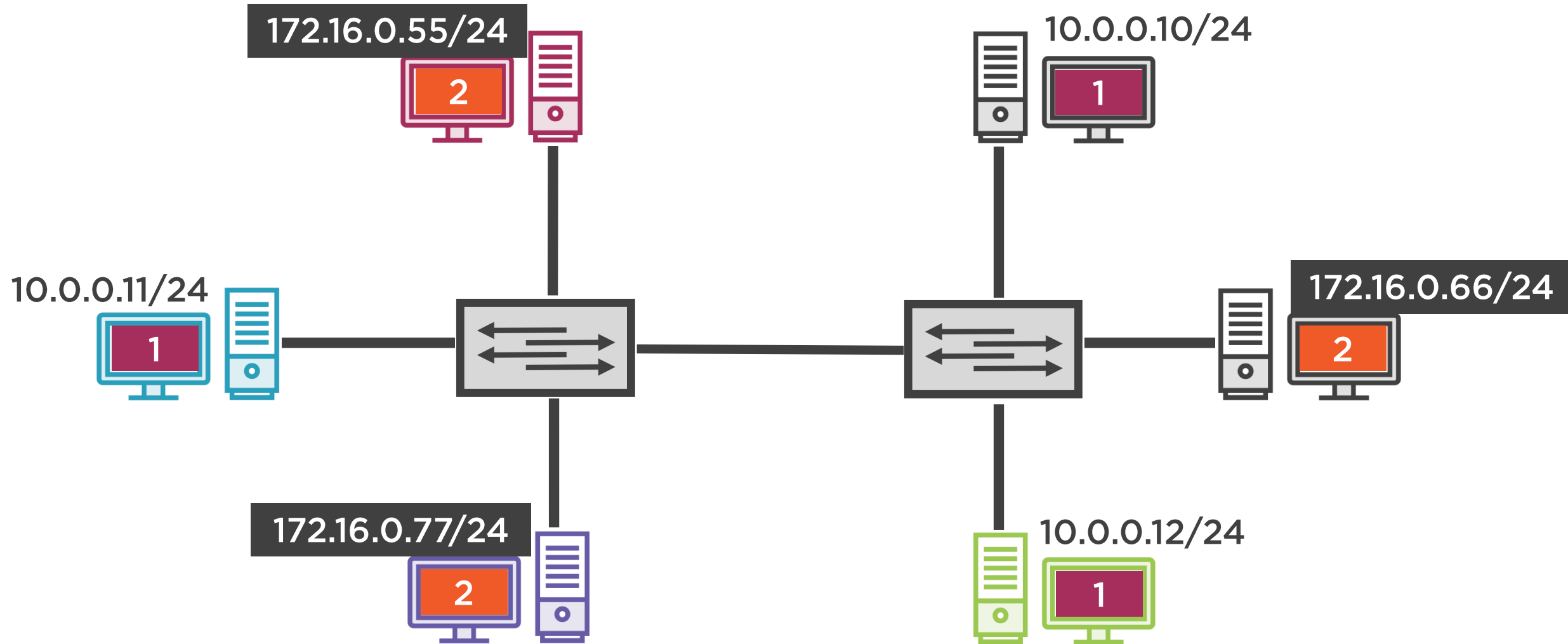
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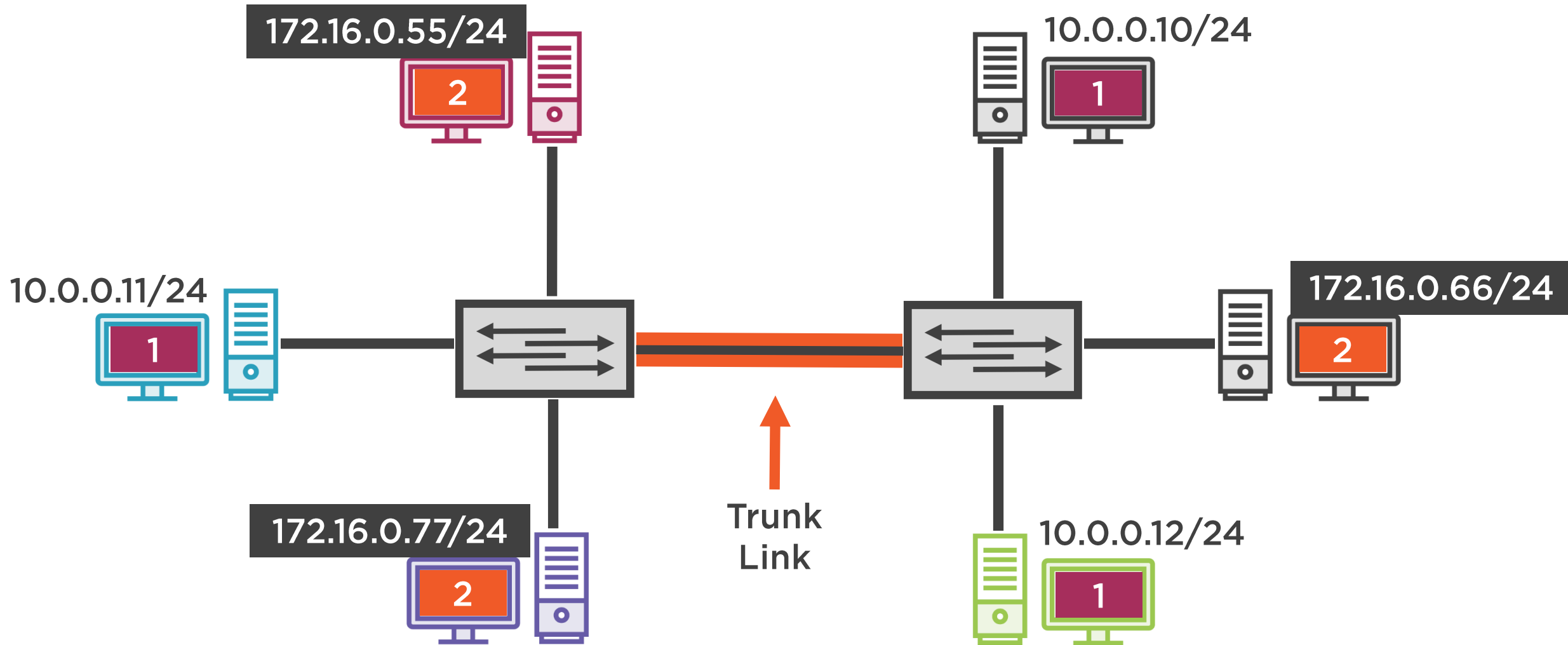
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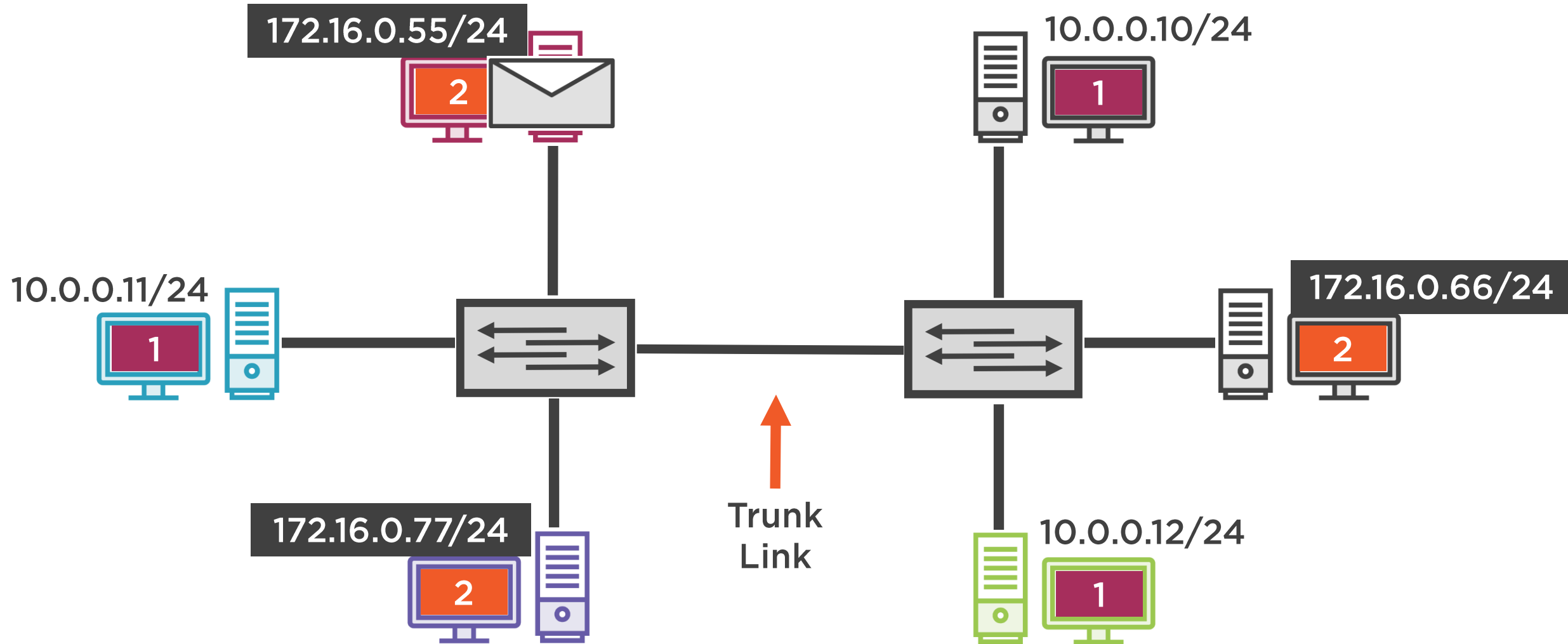
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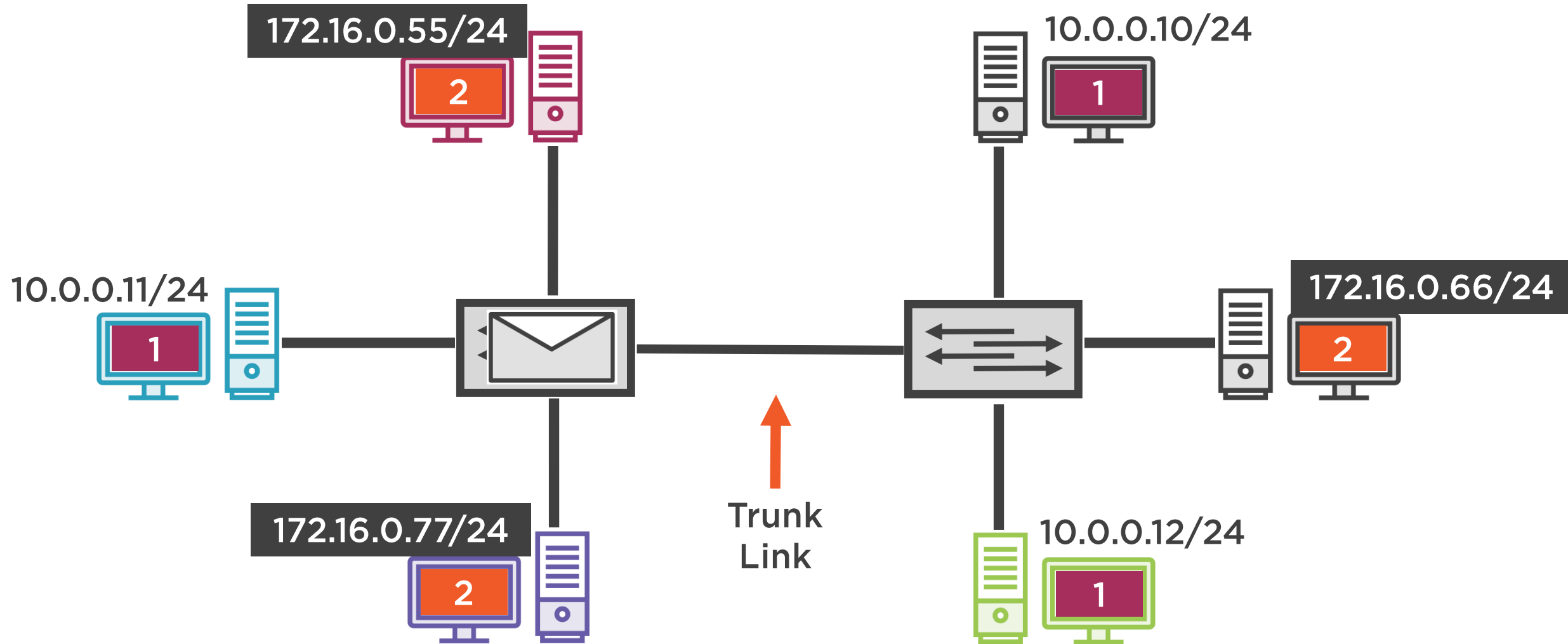
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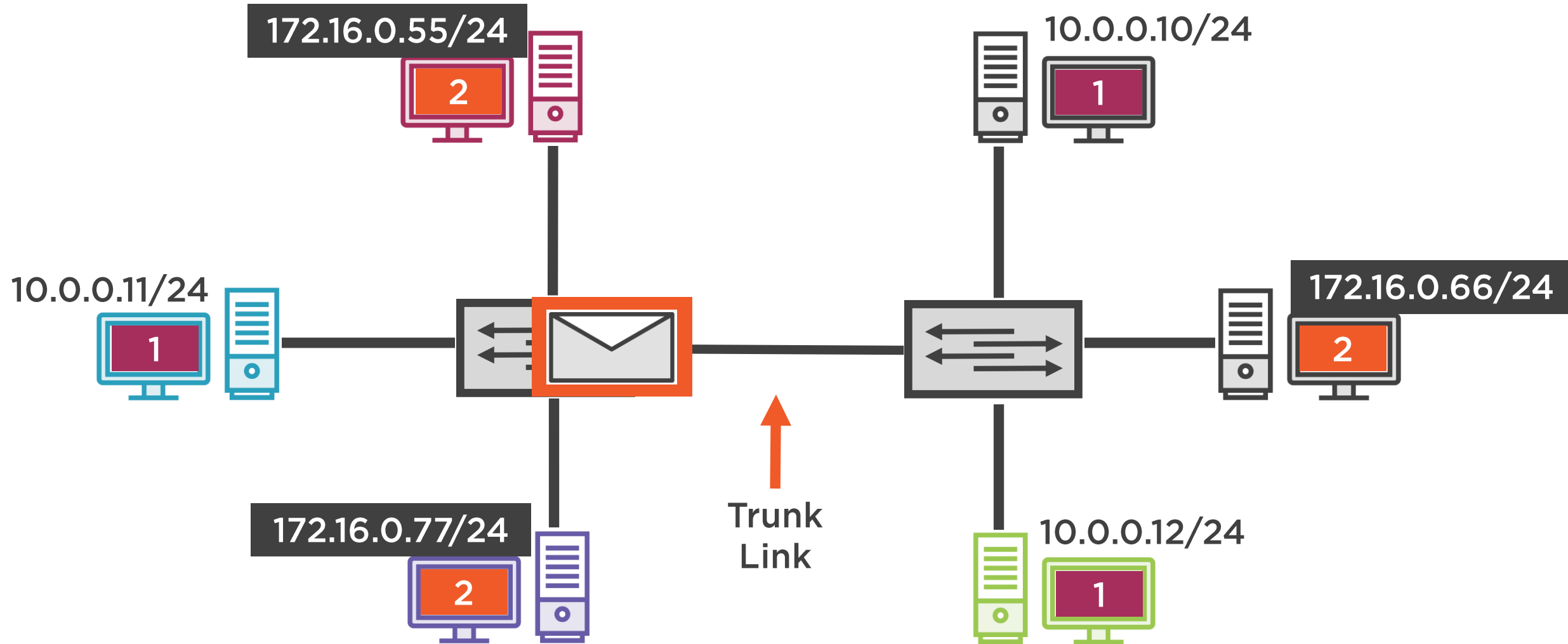
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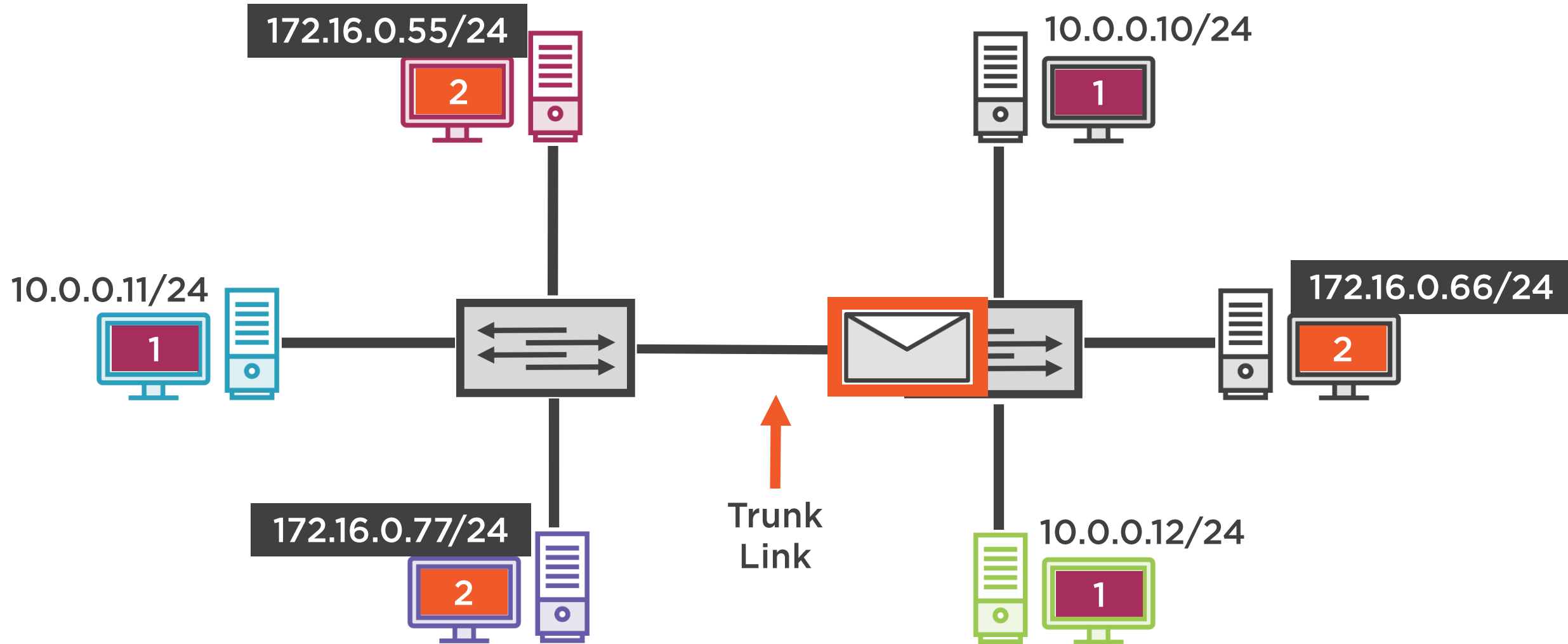
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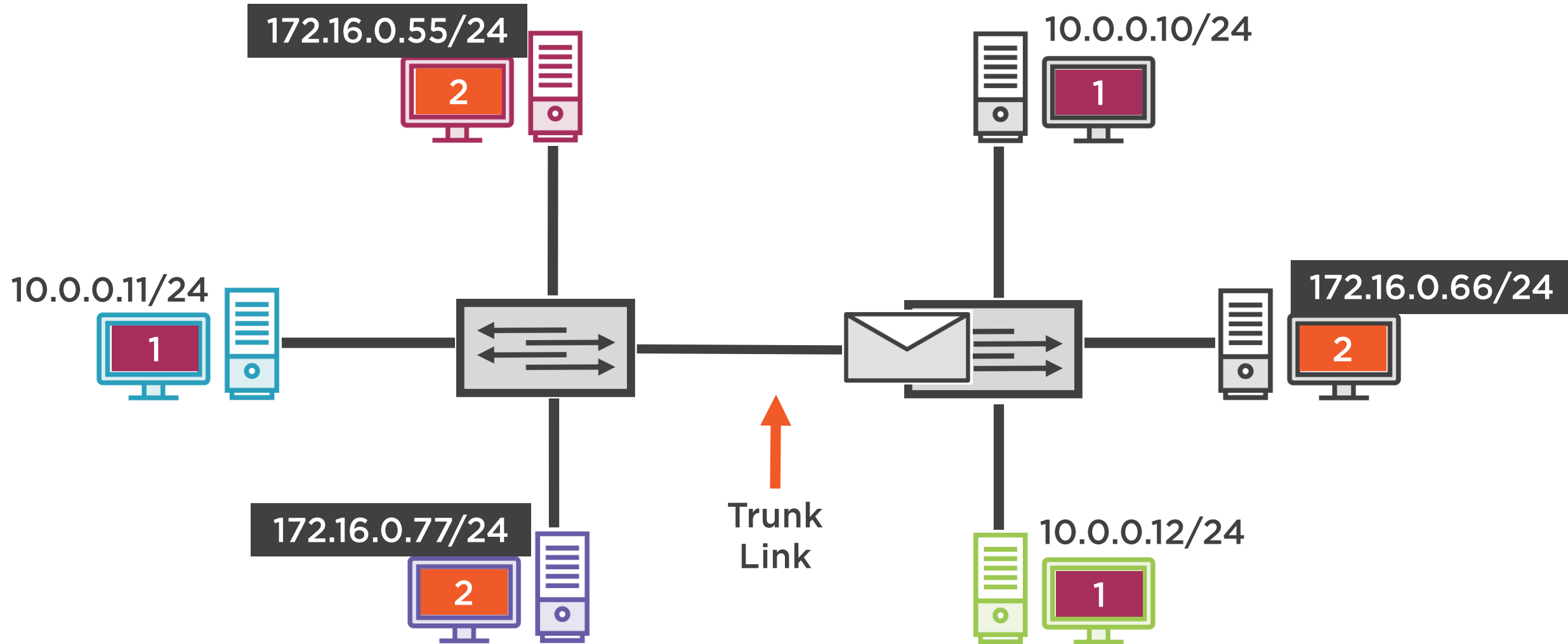
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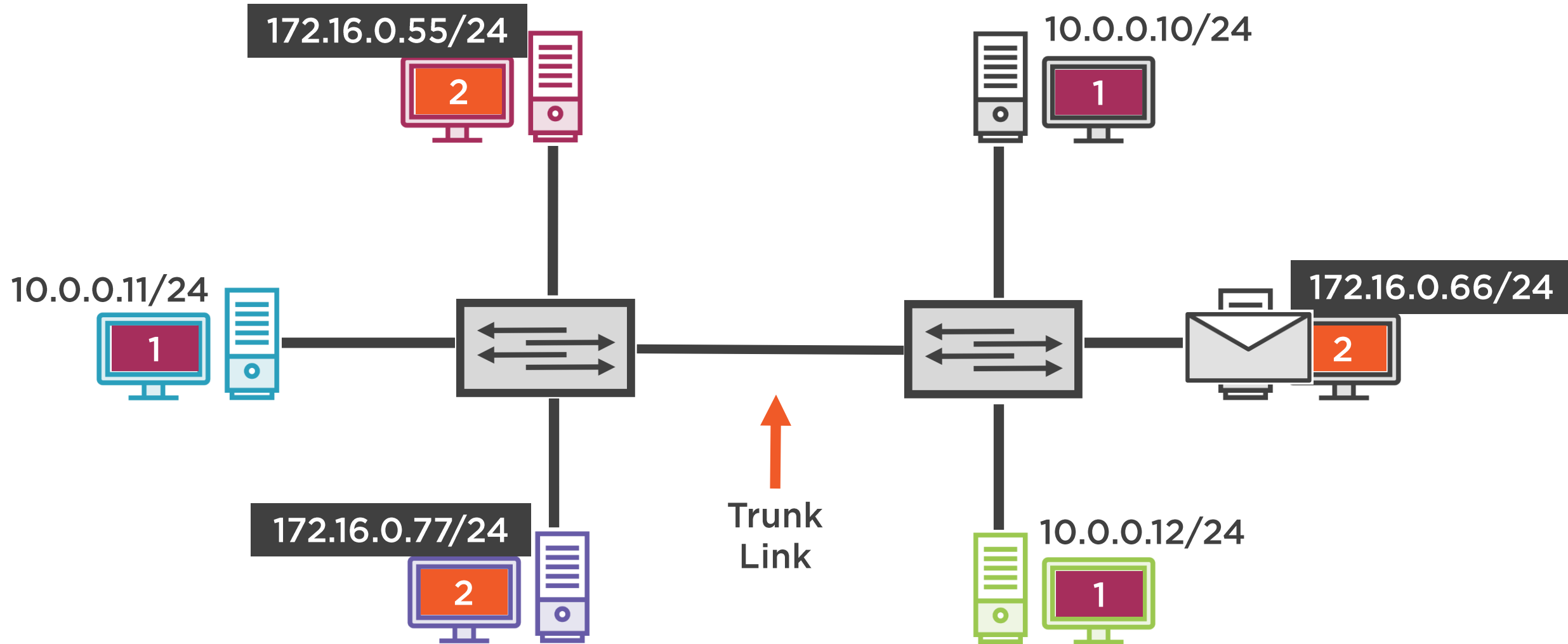
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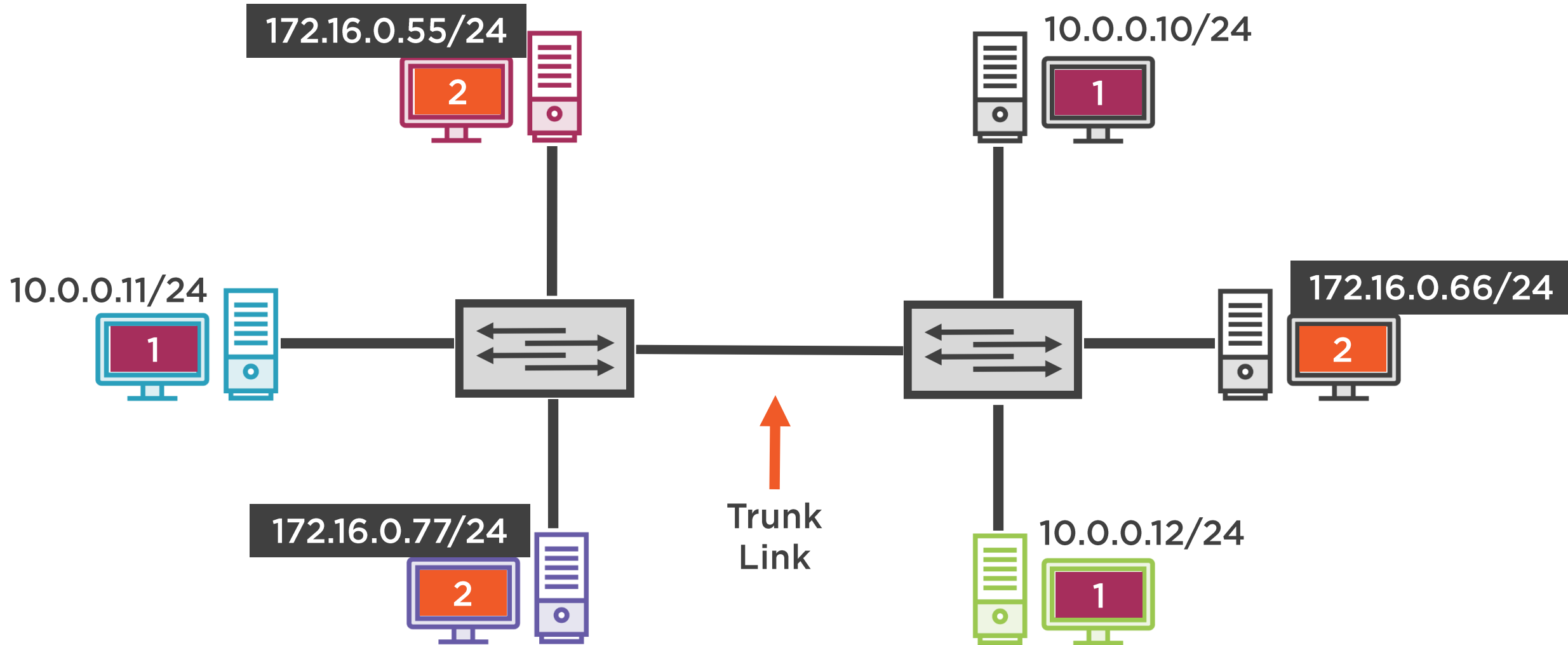
VLANs



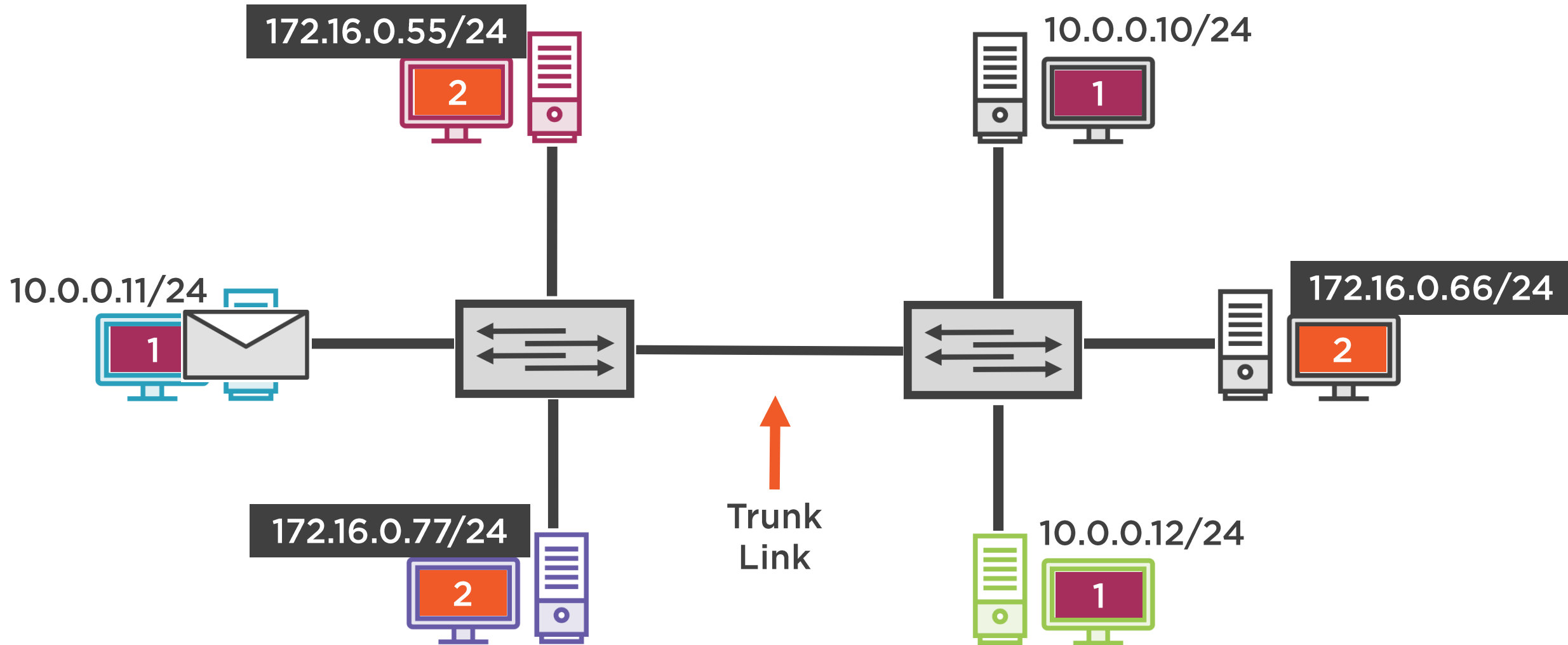
VLANs



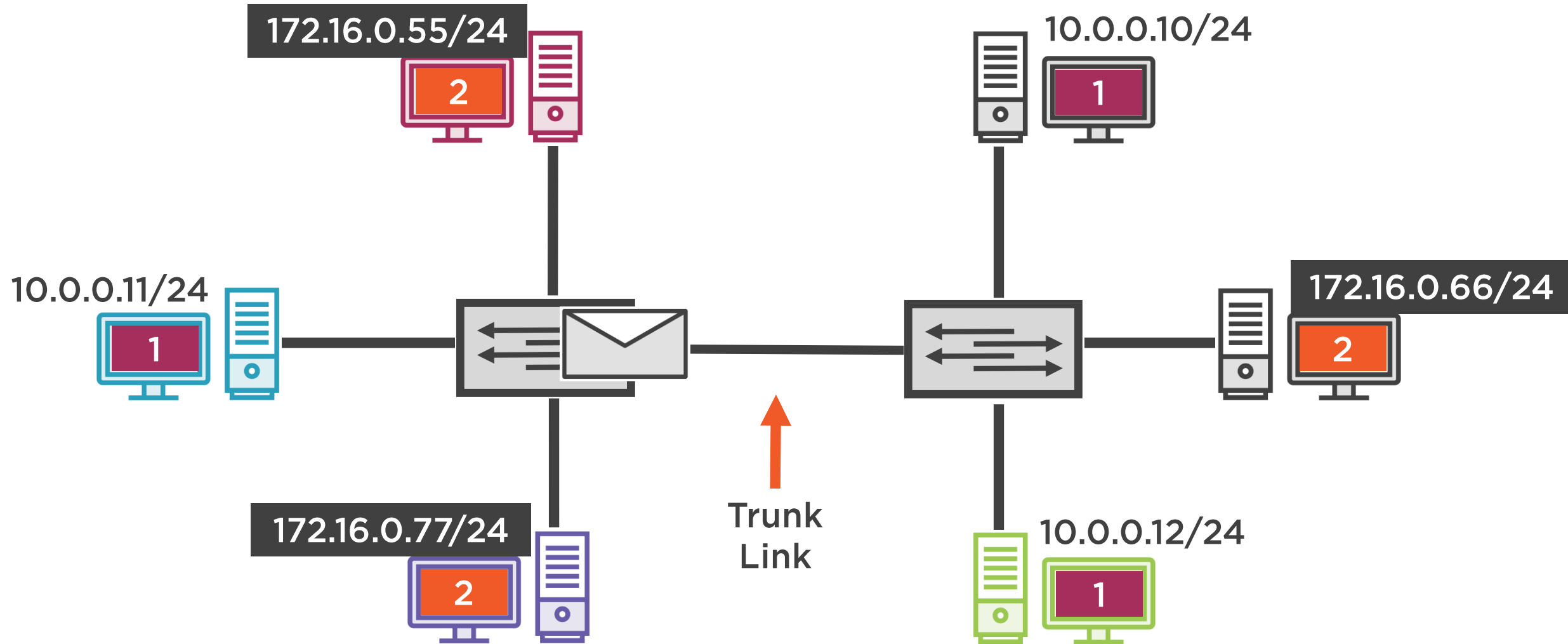
VLANs



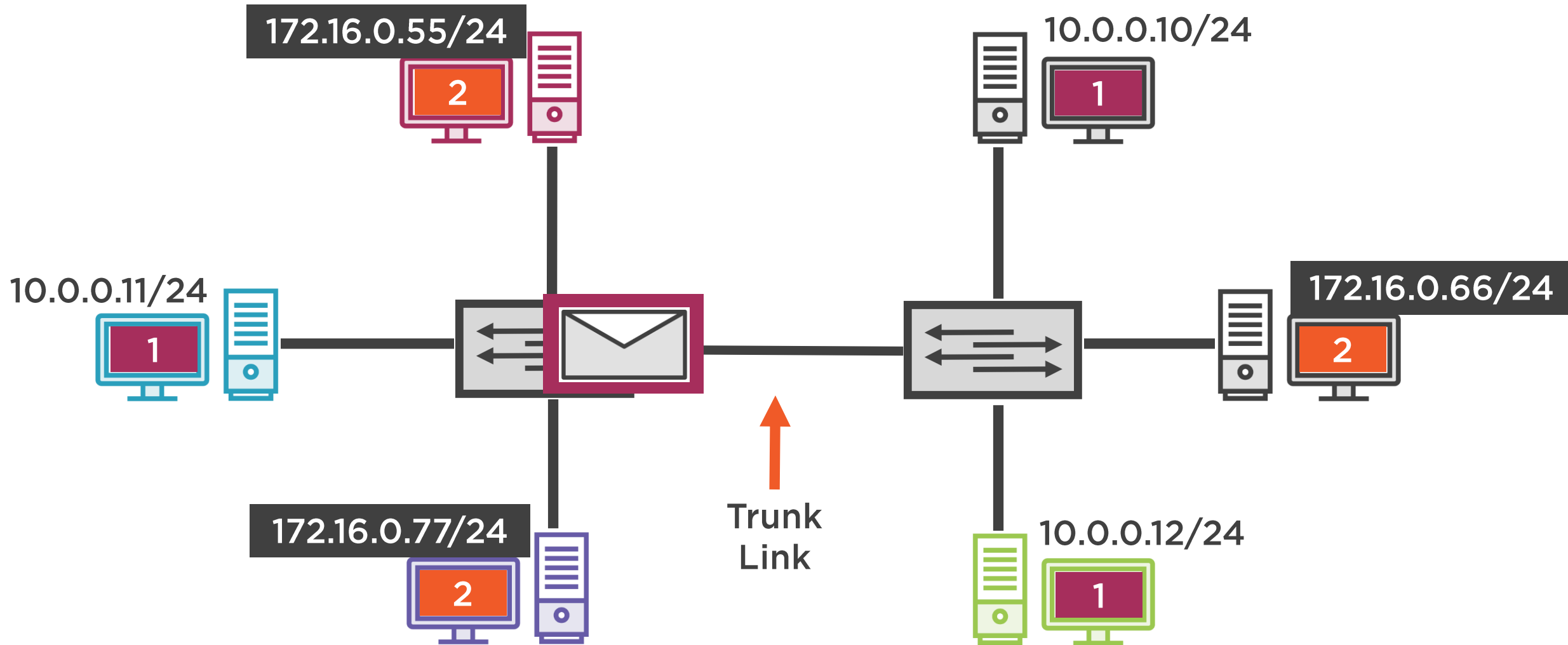
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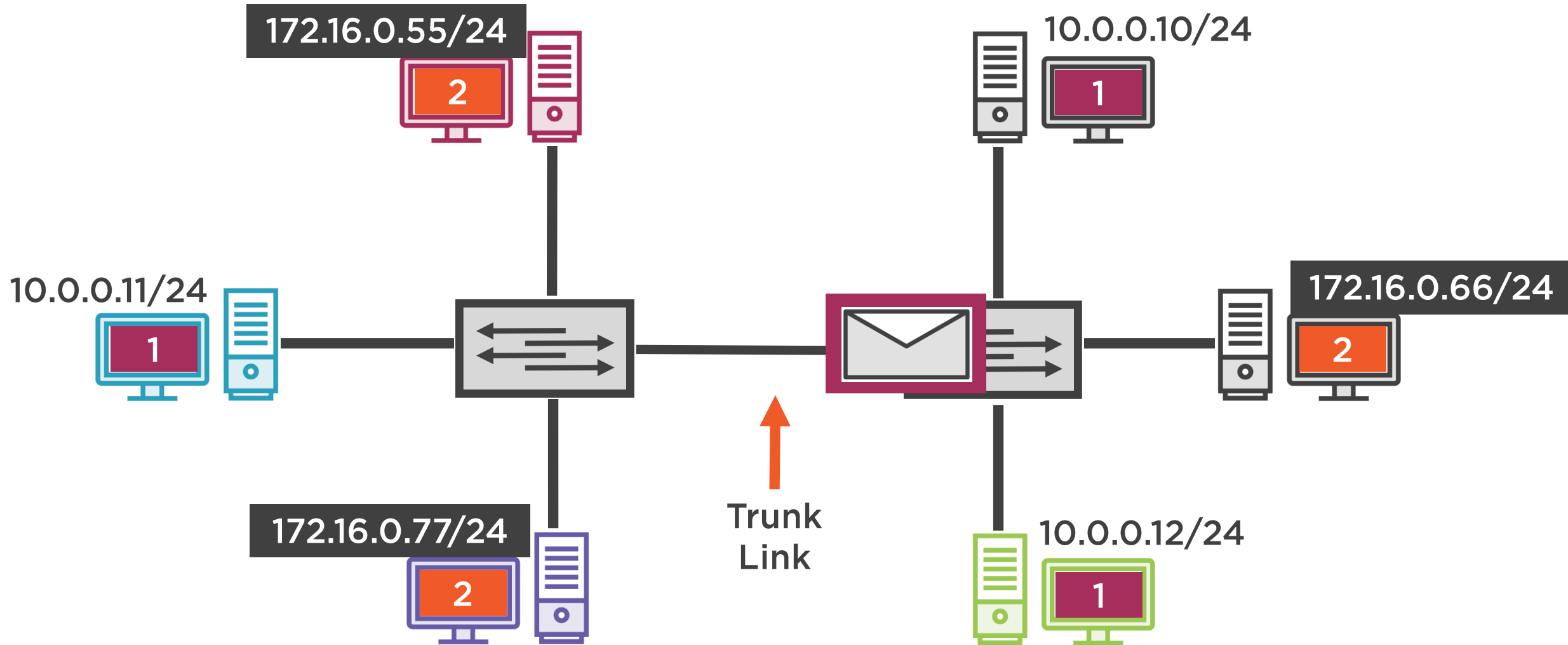
VLANs



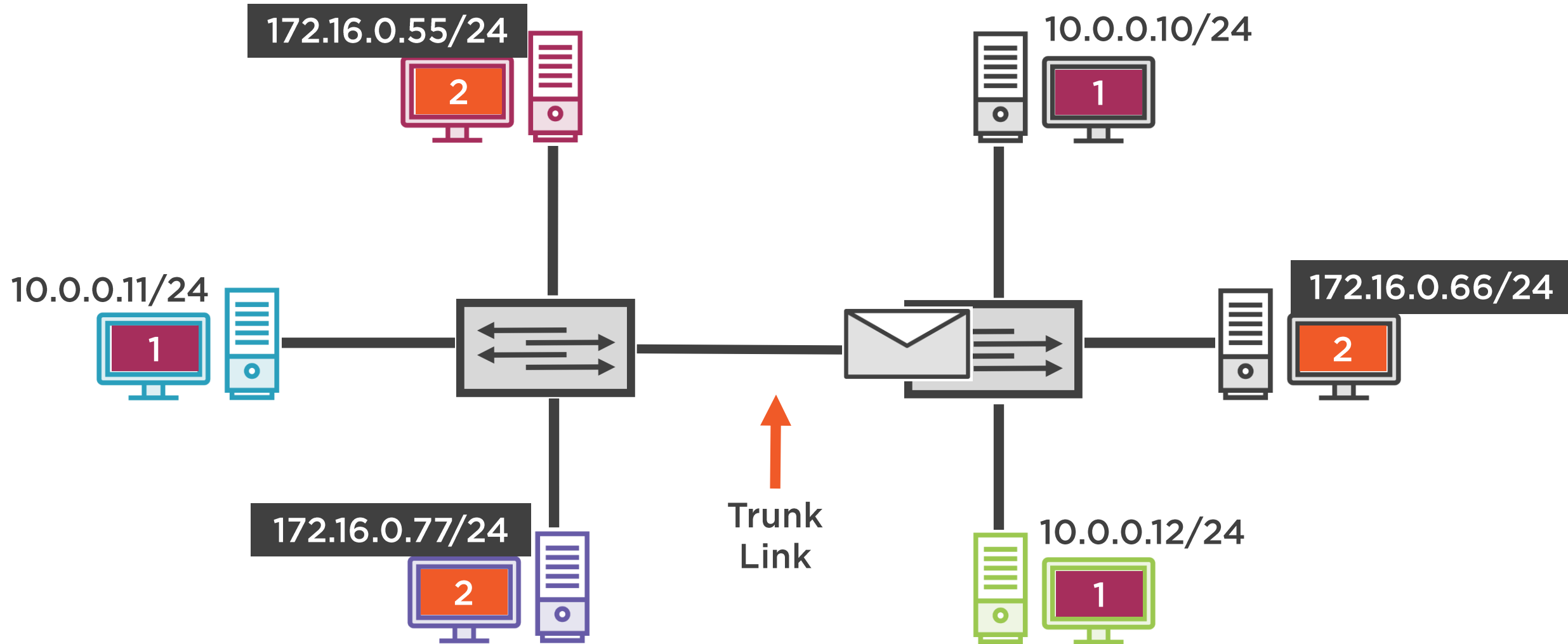
VLANs



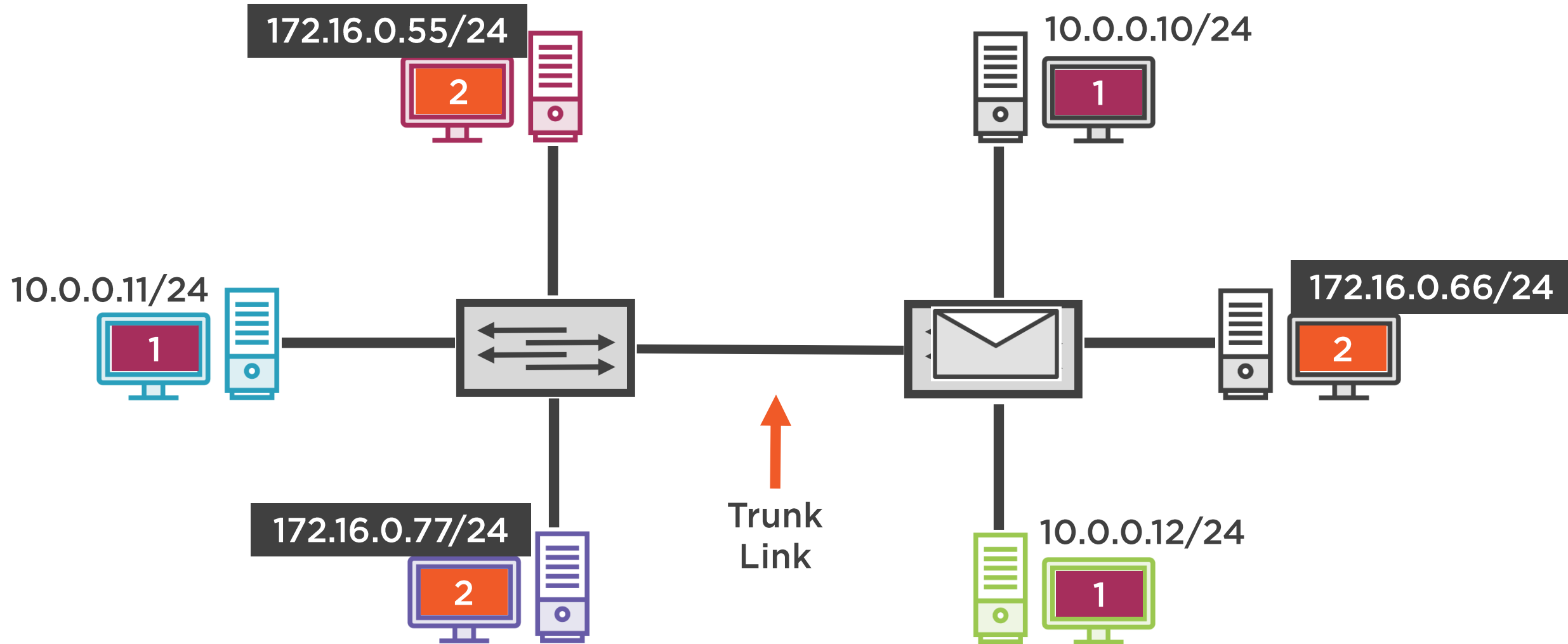
VLANs



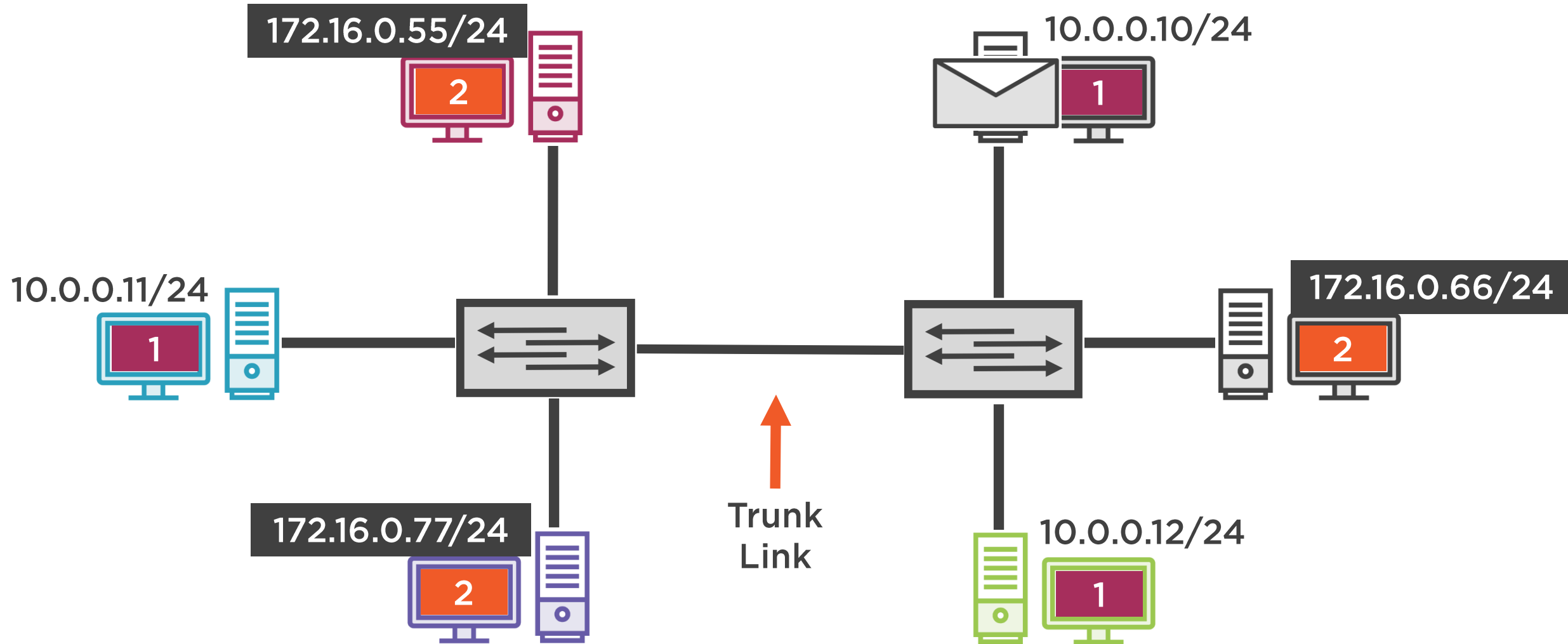
VLANs



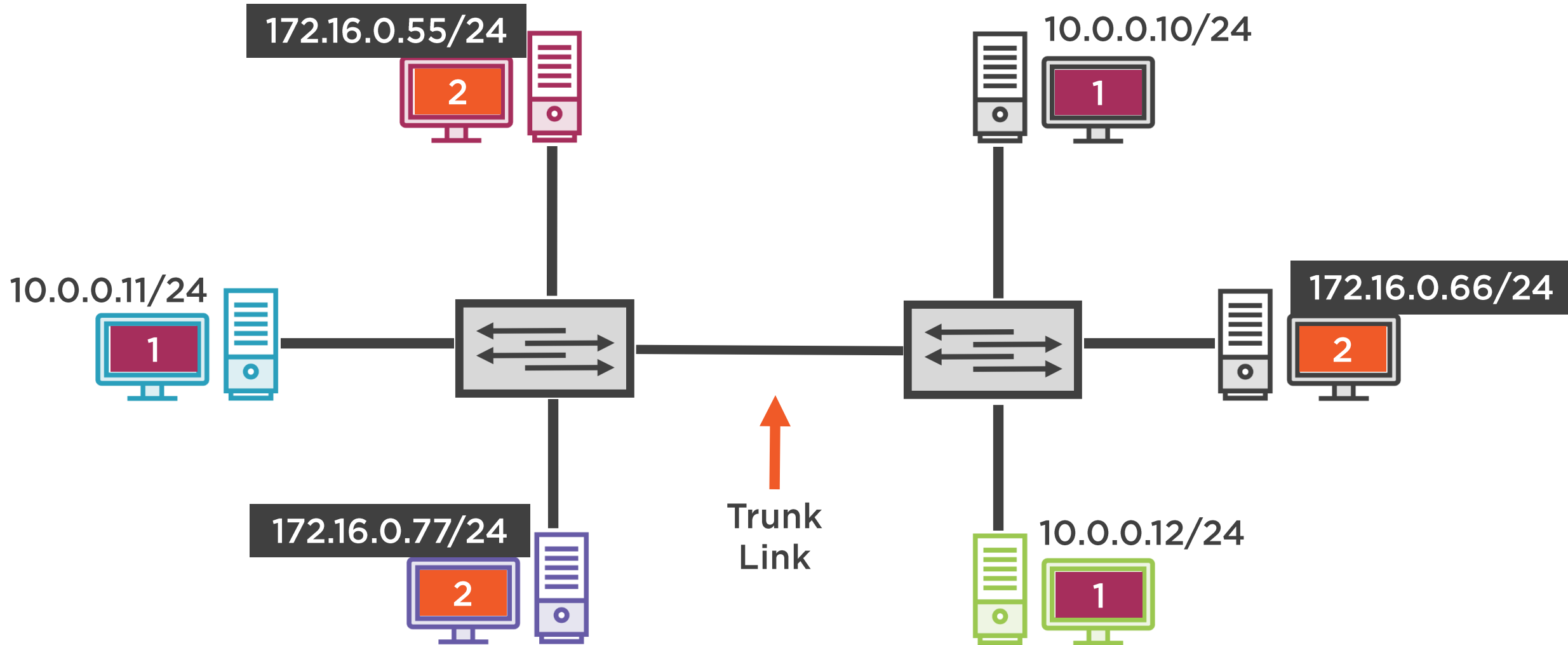
VLANs



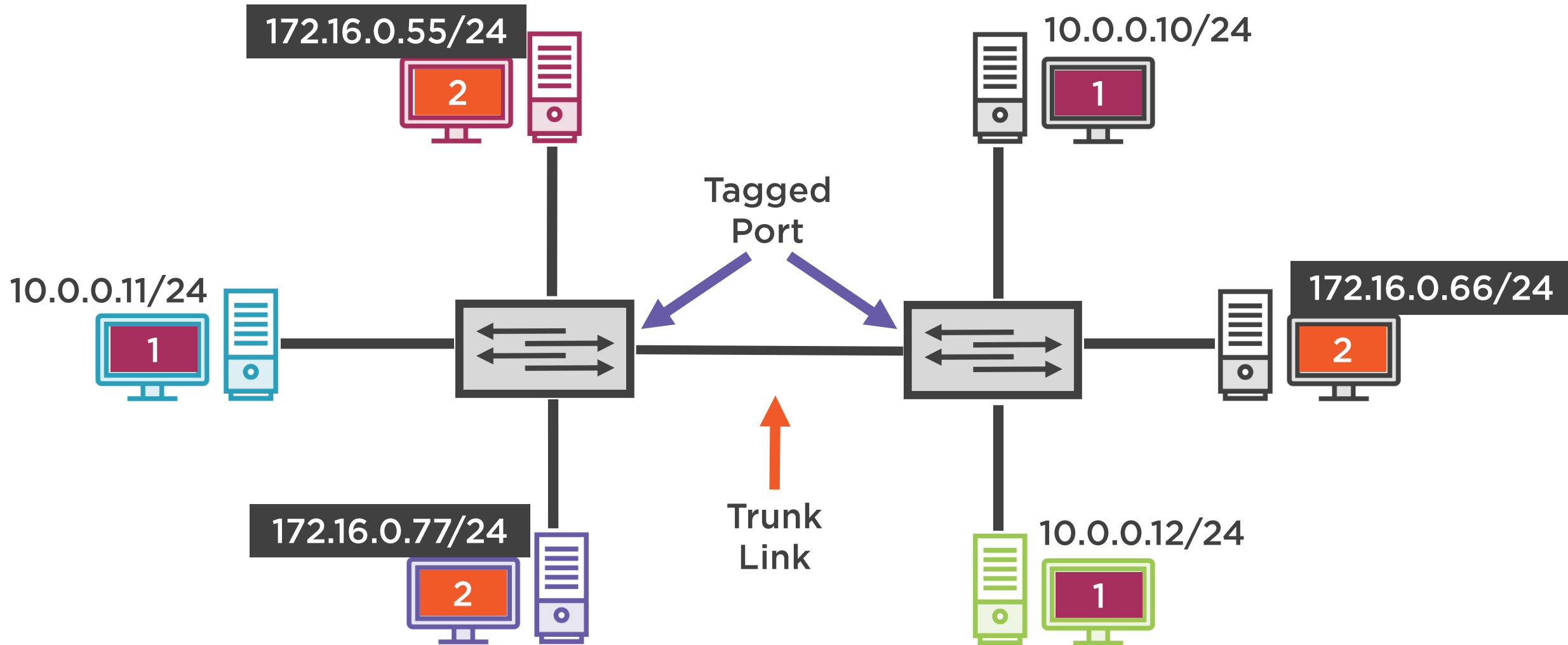
VLANs



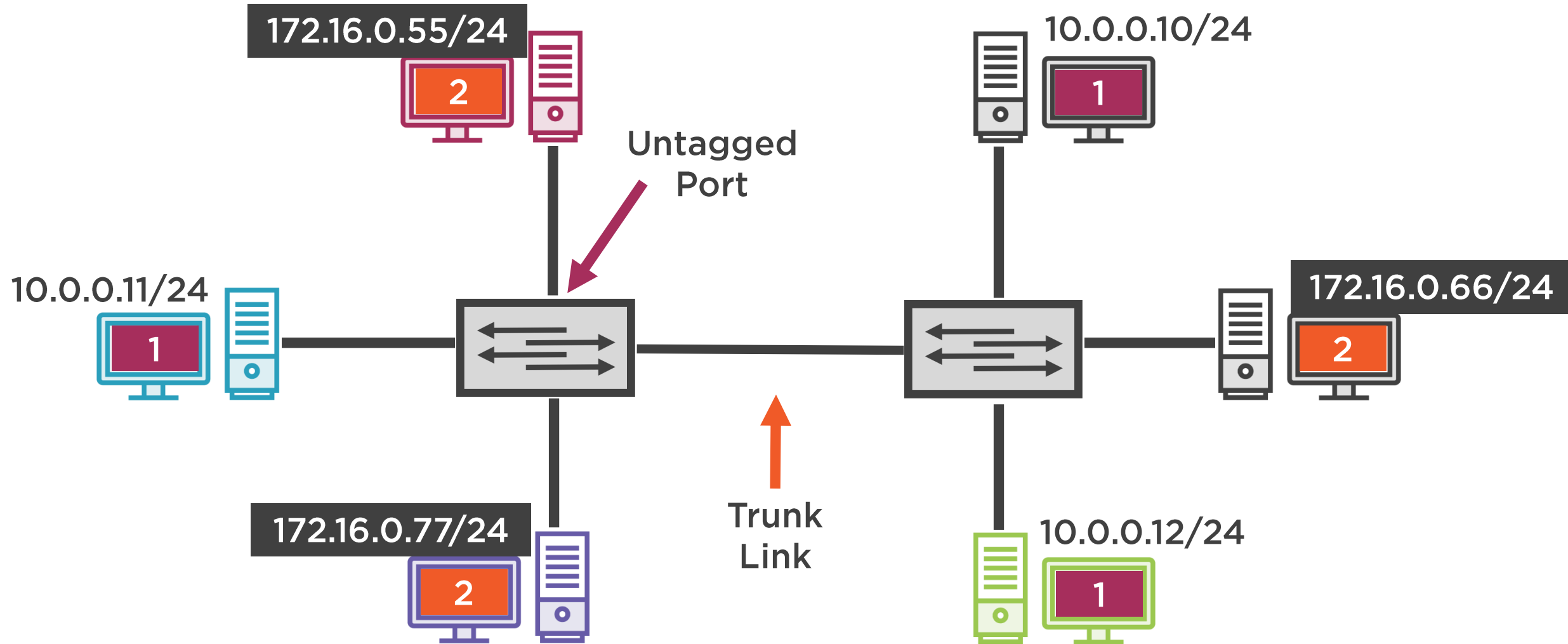
VLANs



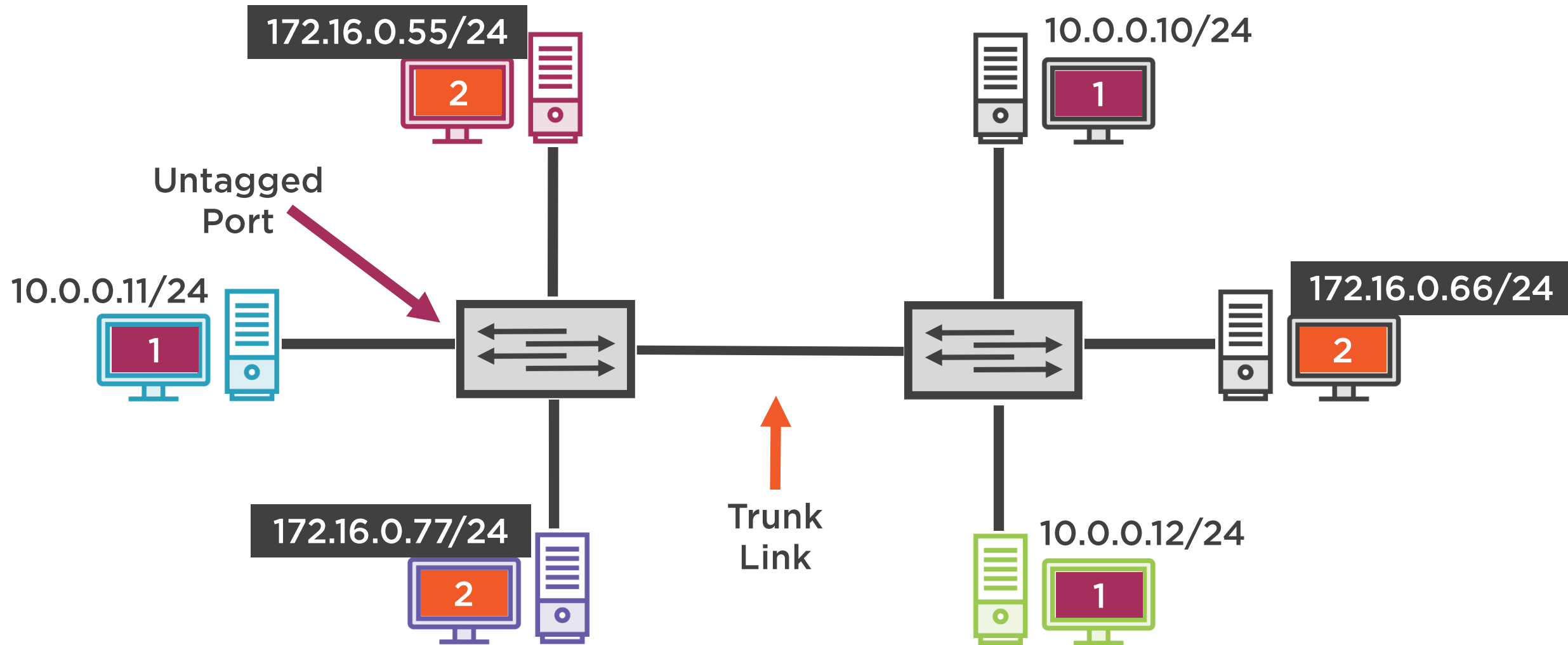
VLANs



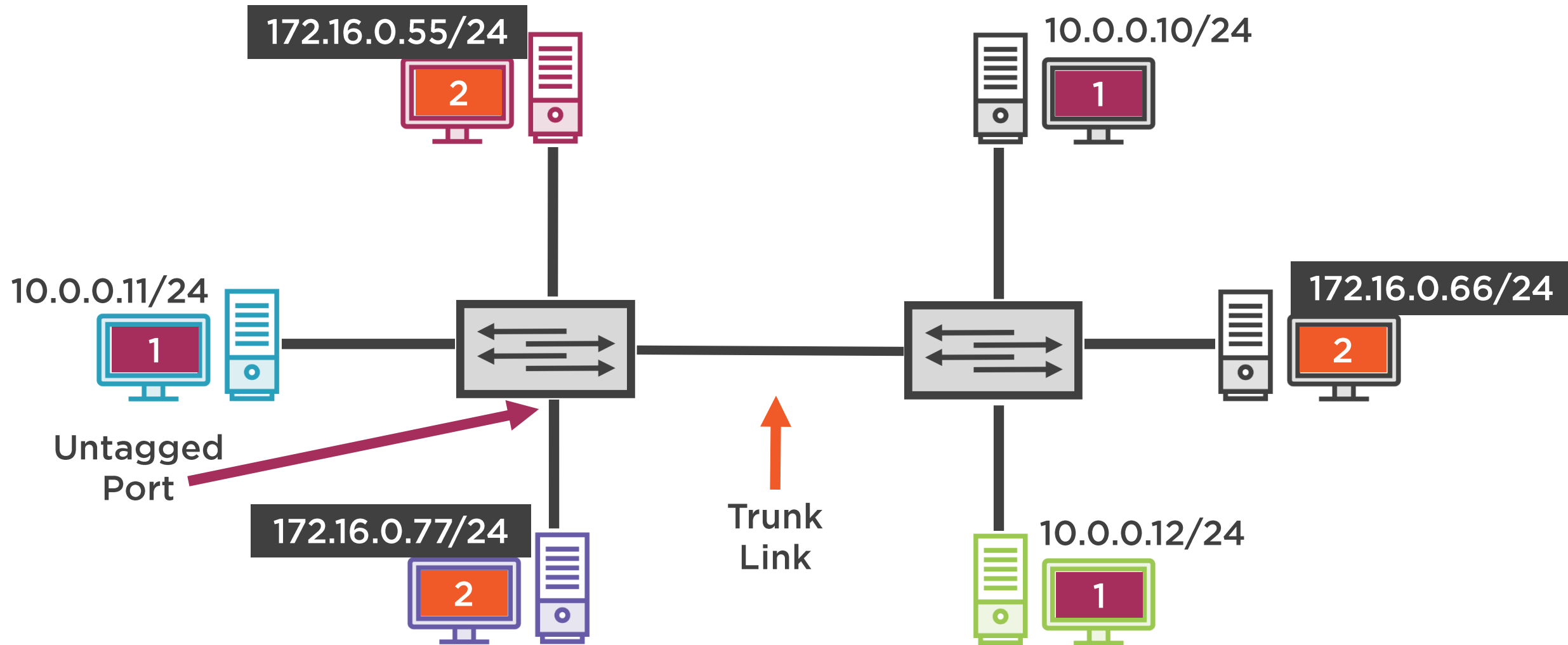
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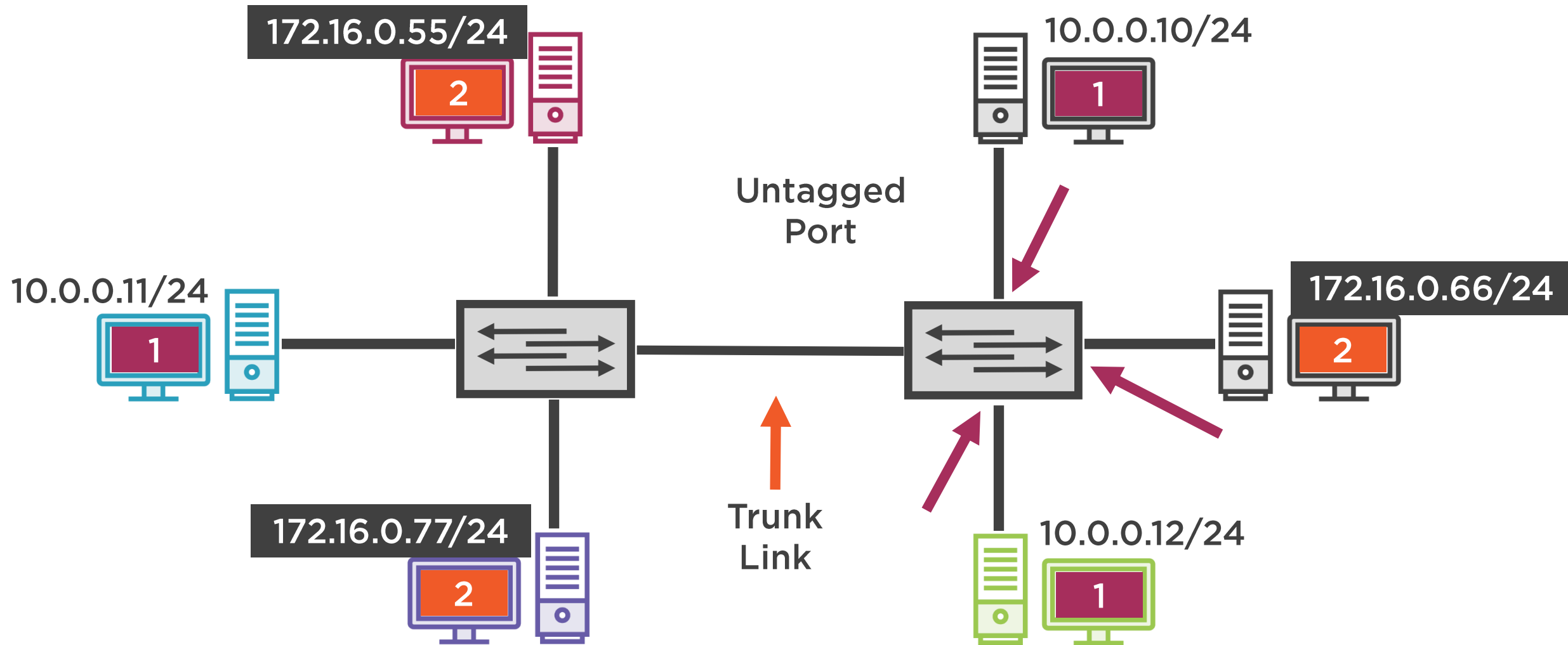
VLANs



VLANs



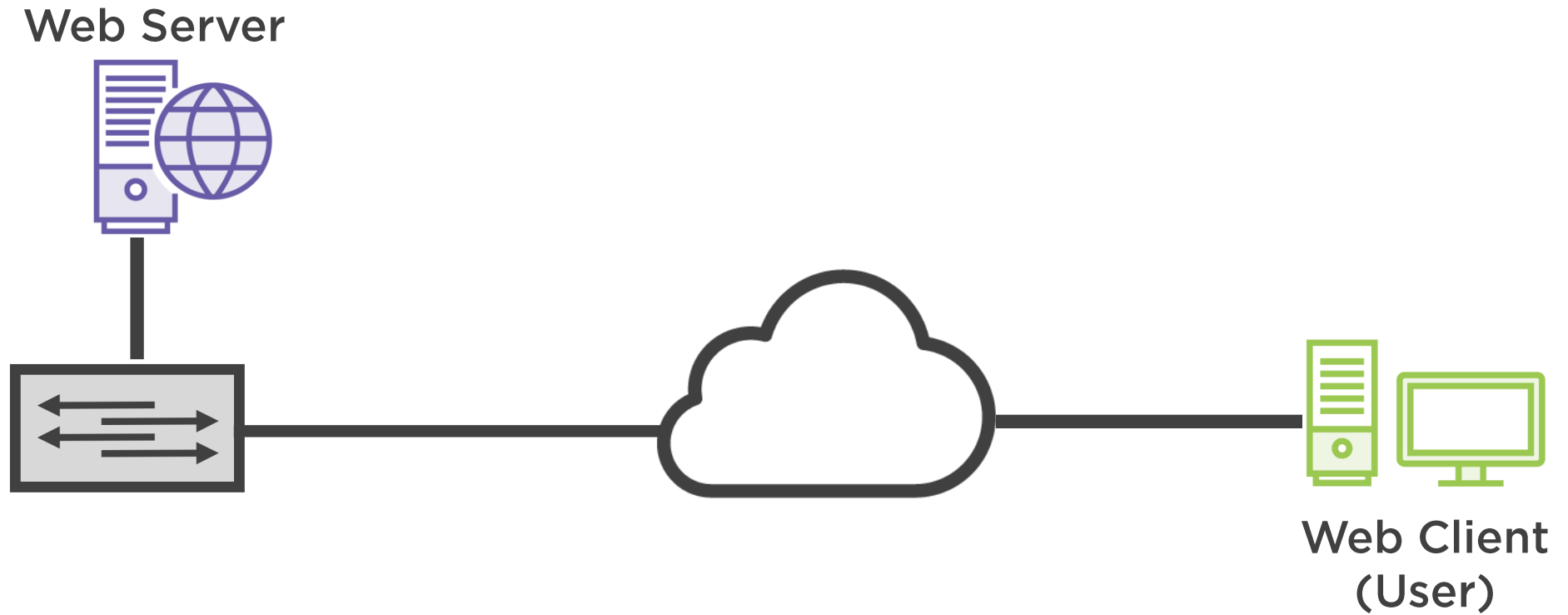
VLANs



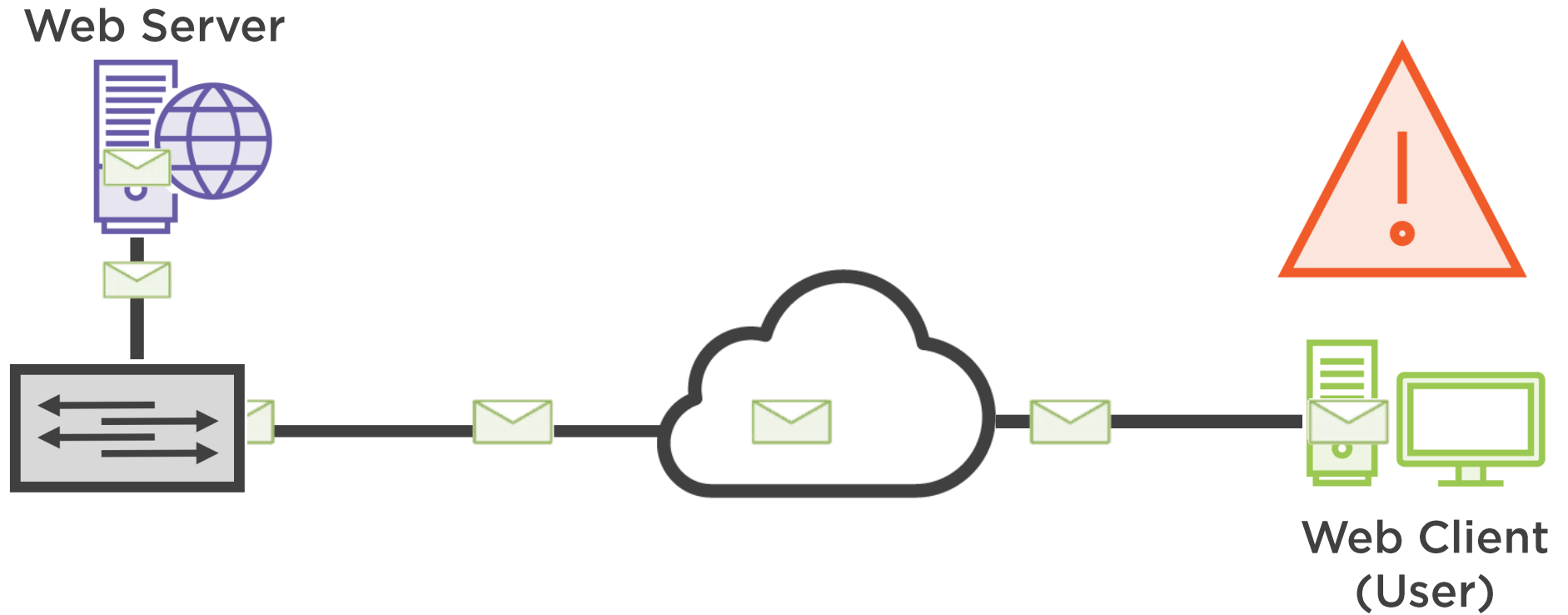
Switch Port Mirroring



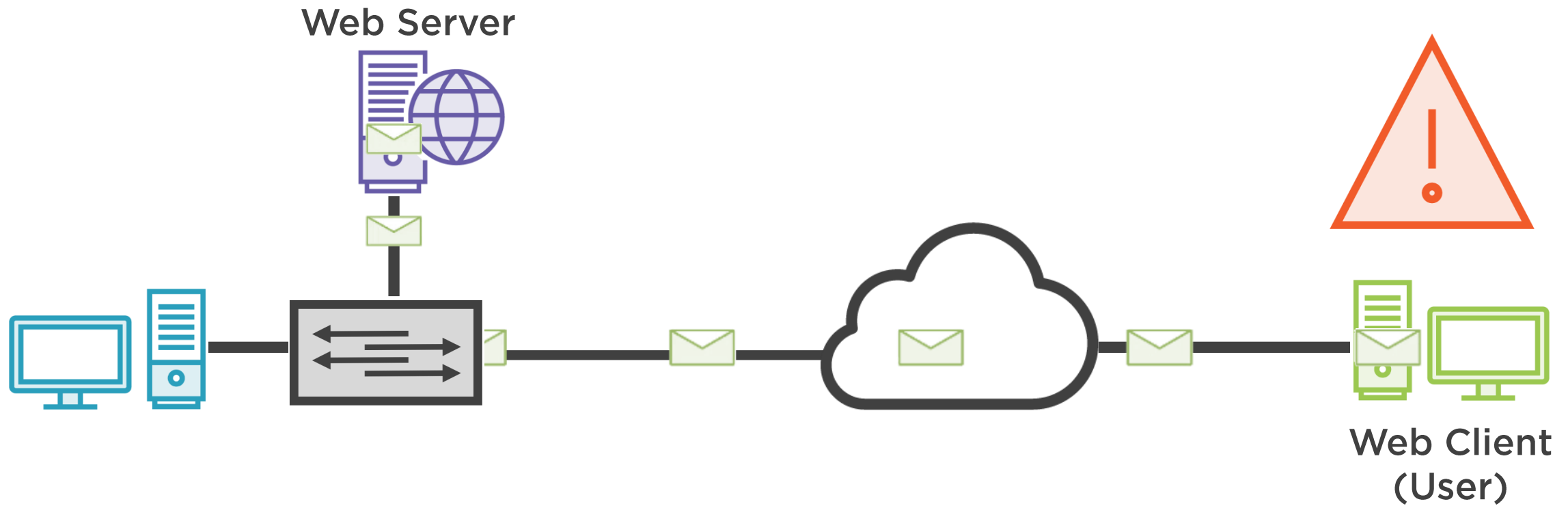
Port Mirroring



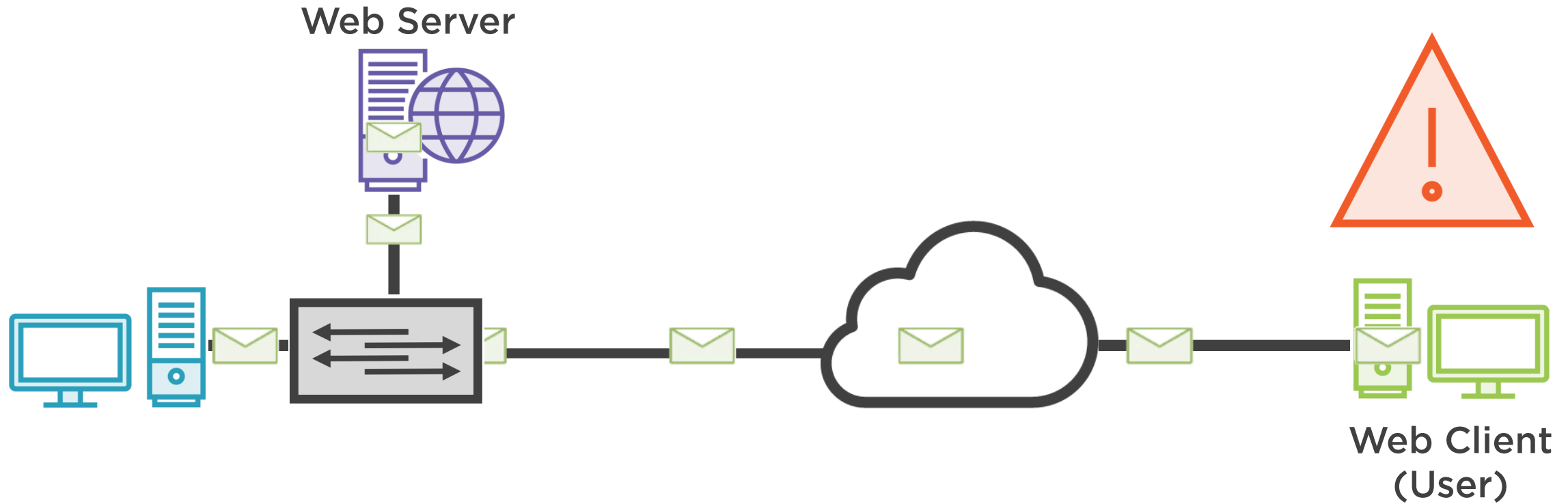
Port Mirroring



Port Mirroring



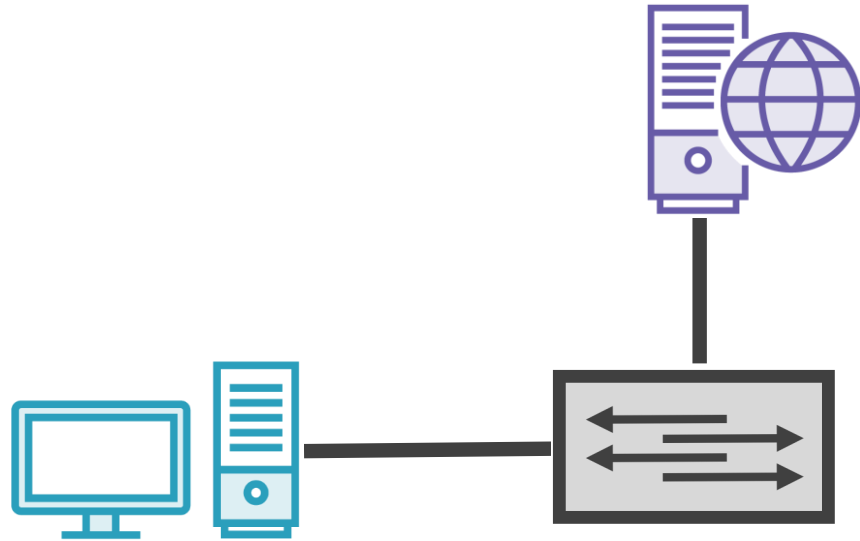
Port Mirroring



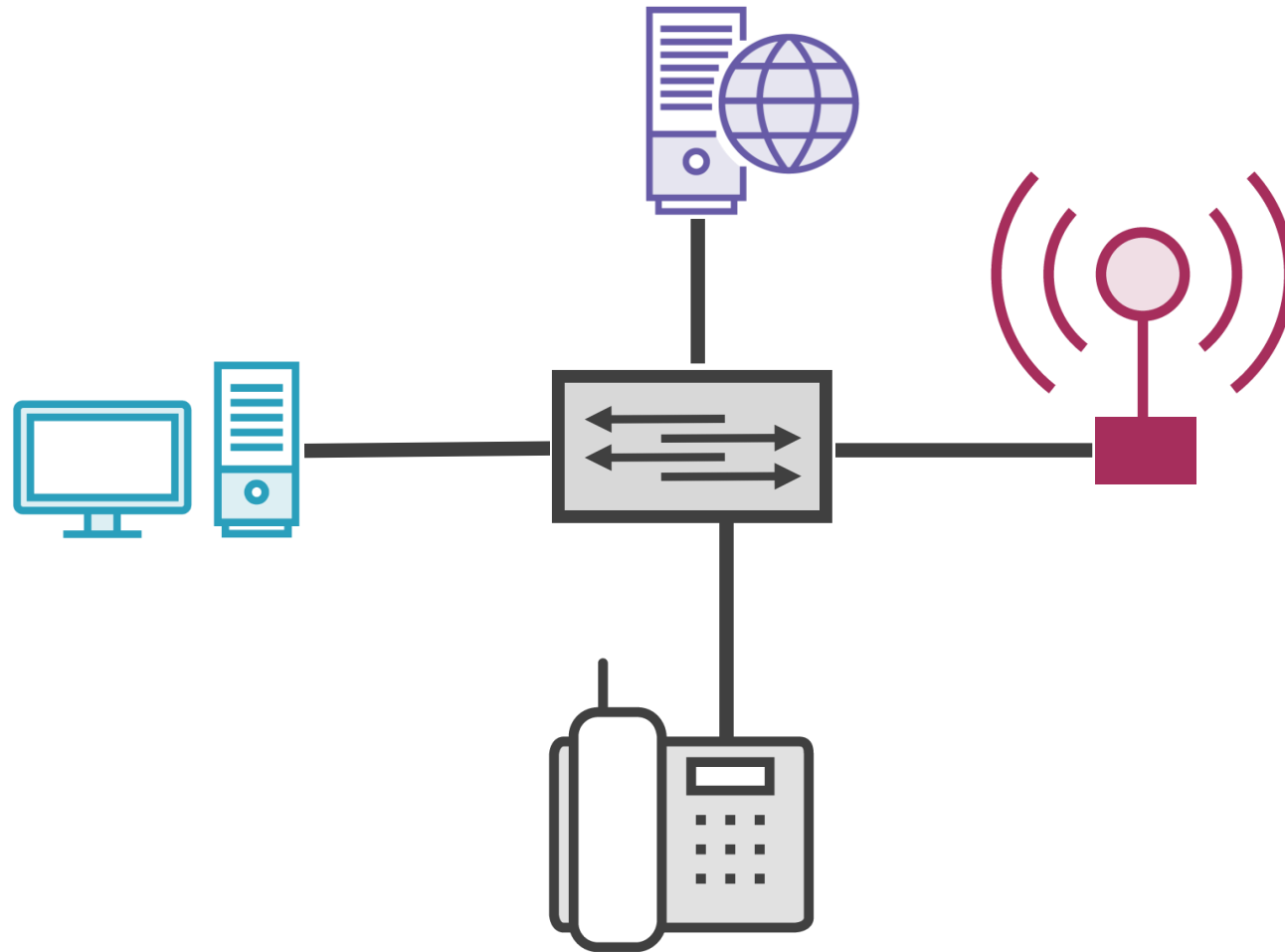
Power over Ethernet (PoE)



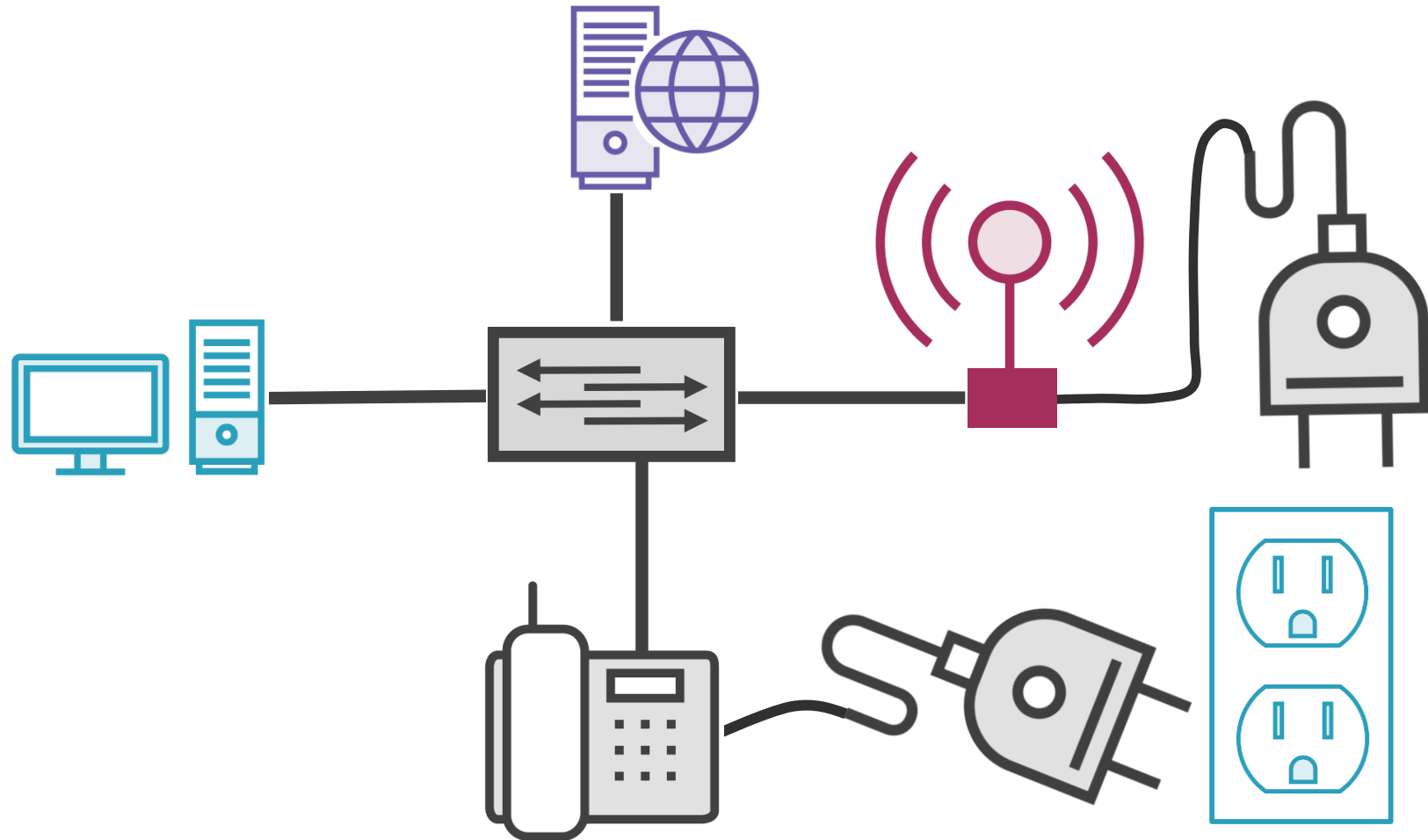
Power over Ethernet (PoE)



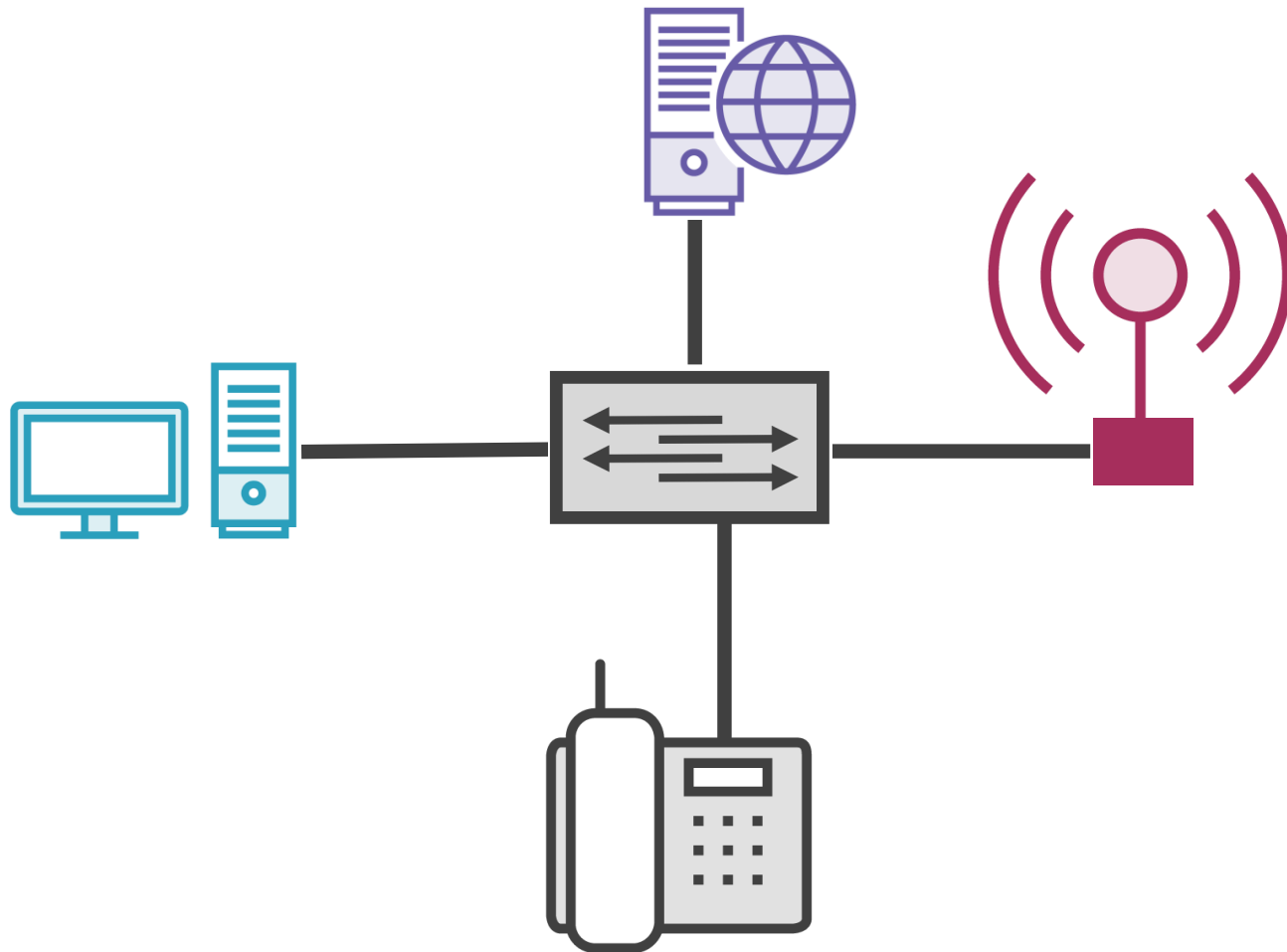
Power over Ethernet (PoE)



Power over Ethernet (PoE)



Power over Ethernet (PoE)



802.3af

2003

15.4 Watts DC Power

802.3at

2009

25.5 Watts DC Power



Summary



Broadcast Storms and Prevention

VLANs

Mirroring Switchports

Power over Ethernet (PoE)