

Virtual Private Gateway (VGW)



Steven Moran

TECHNICAL INSTRUCTOR

There Must Be Some Kind Of Way Out Of Here...



How do you get out of a VPC
and into the “real world”?

Through a VPC
“gateway” object.

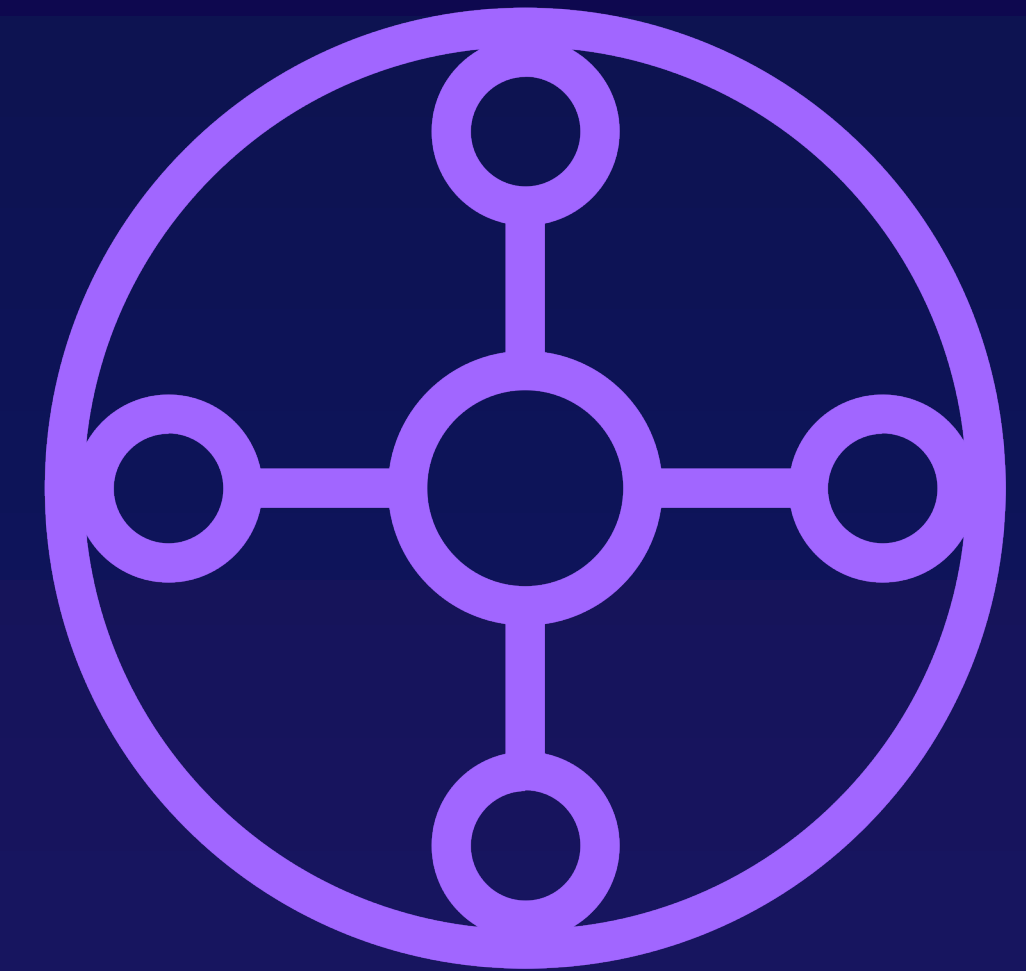
There Must Be Some Kind Of Way Out Of Here...



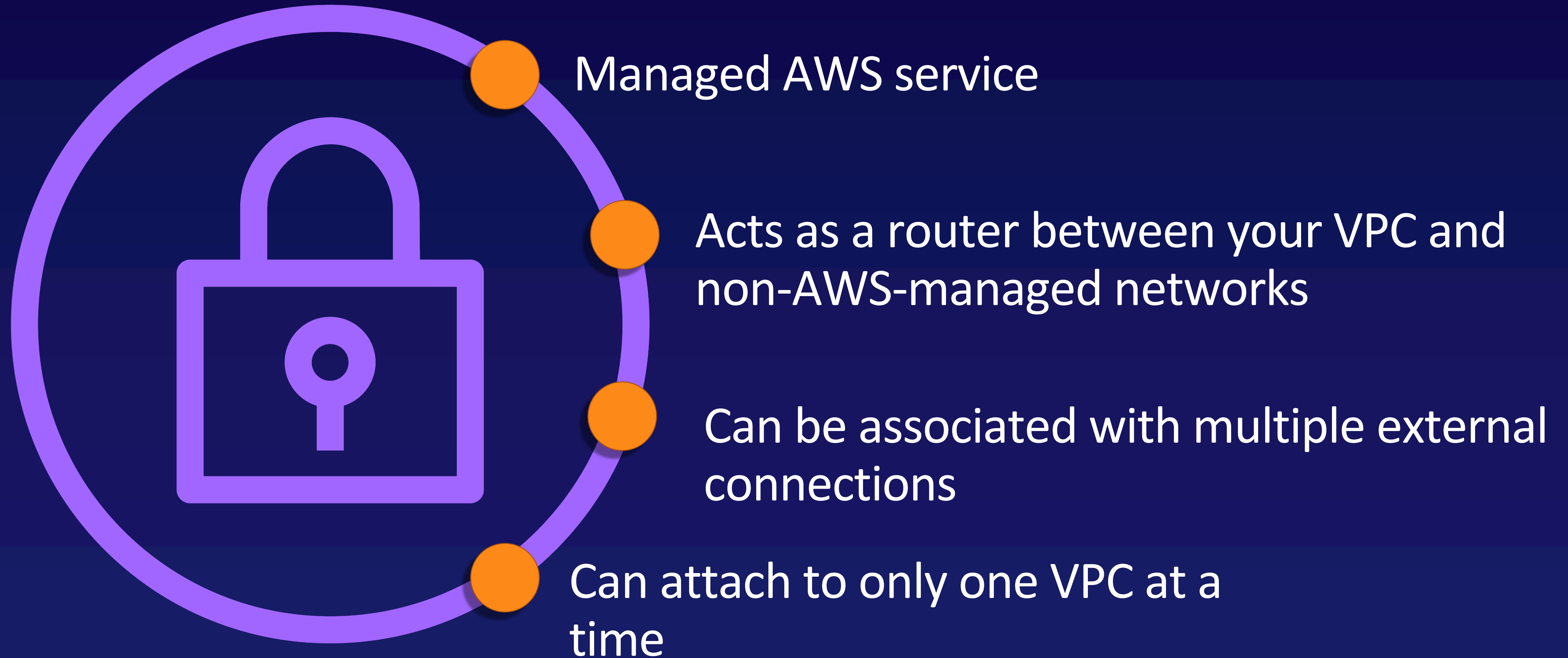
Internet Gateway
(IGW)



Virtual Private Gateway
(VGW)



Transit Gateway
(TGW)



What Do You Do With Your VGW?



Site-to-Site VPN

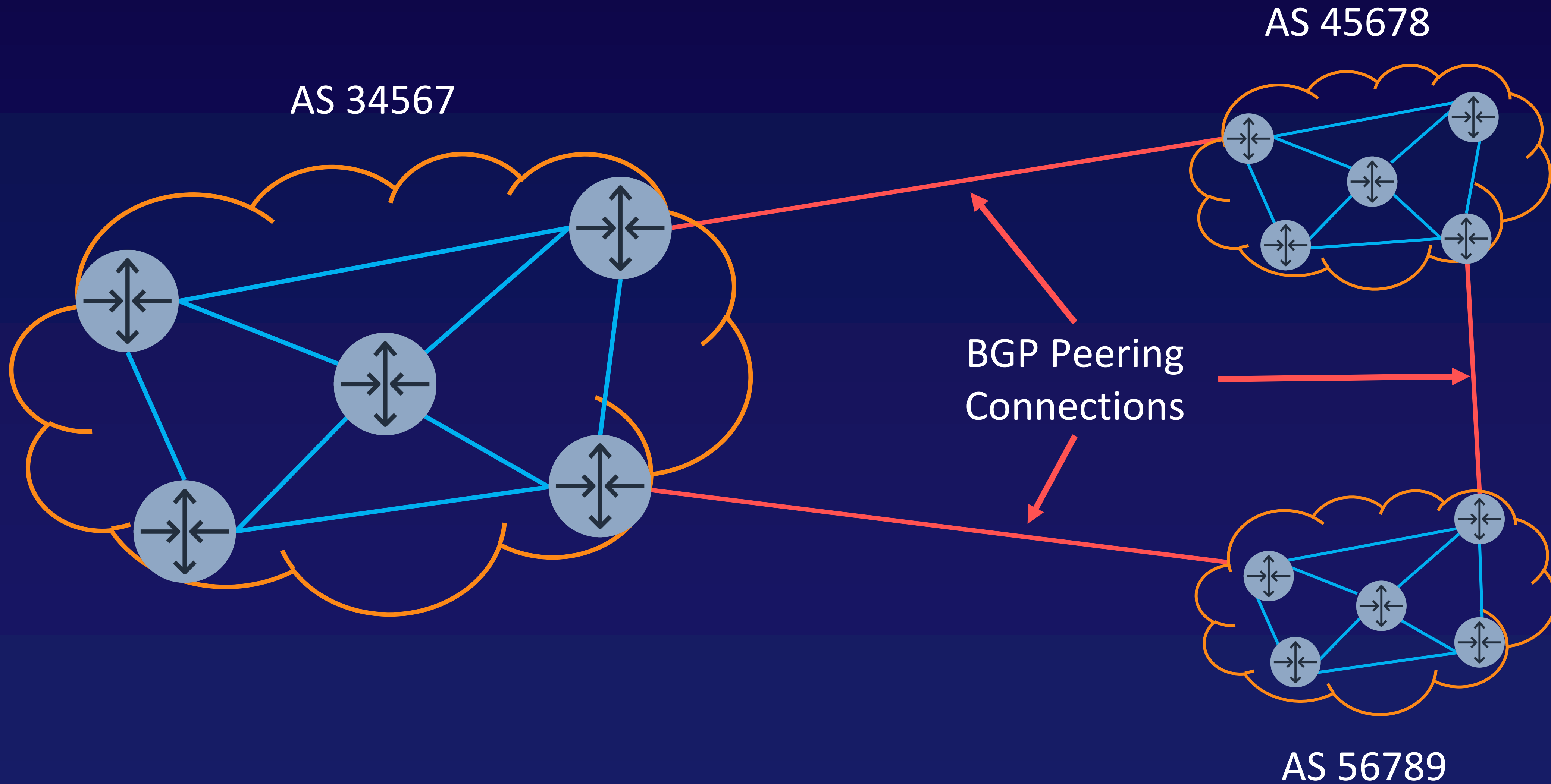


Direct Connect

- 1** Assign a **name** tag value
- 2** Assign an **ASN** value
- 3** Attach to a VPC

What's an ASN?

Autonomous System Numbers



Autonomous System Numbers

1

16-bit and 32-bit

- 0-65535
- 65536-4294967295

2

Public and private ASNs

- Public ASNs are controlled by the IANA
- 16-bit private range: 64512-65534
- 32-bit private range: 4200000000+

3

Only private ASNs may be used for VGW configuration

- AWS default ASN is 64512 in all regions
- 7224 in *most* regions prior to June 30, 2018

VGWs only attach to a single AWS VPC at a time but can connect to multiple AWS VPN or Direct Connect connections.

VGWs must be assigned a private ASN in order to support potential BGP route learning.

Once created, a VGW's properties cannot be edited.