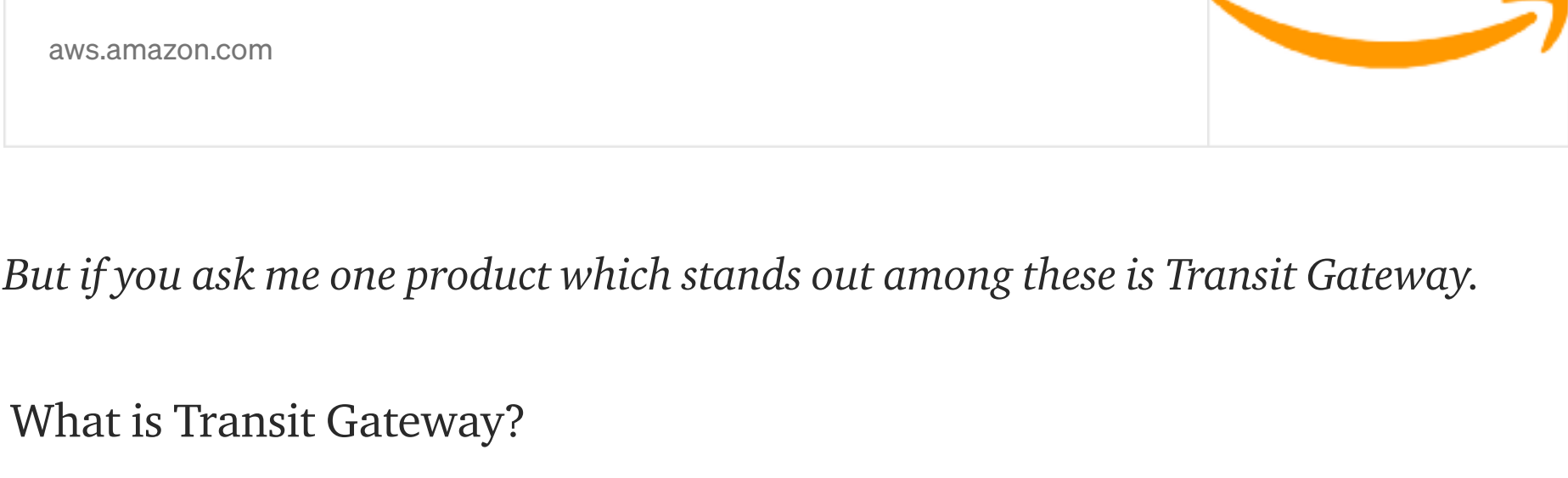


100 Days of DevOps — Day 38-Introduction to Transit Gateway

Welcome to Day 38 of 100 Days of DevOps, Focus for today Transit Gateway.

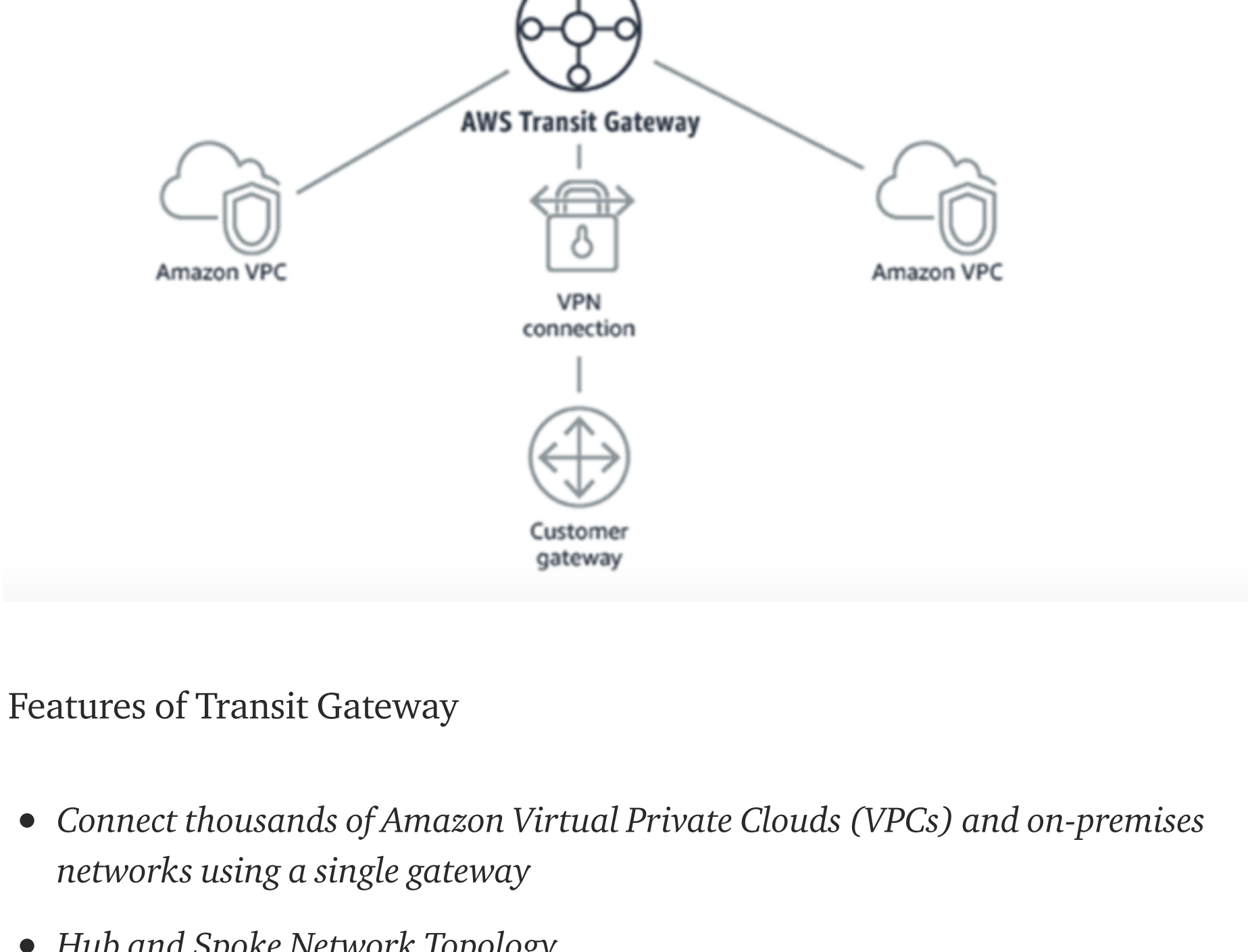
During ReInvent 2018, AWS released a bunch of Products



But if you ask me one product which stands out among these is Transit Gateway.

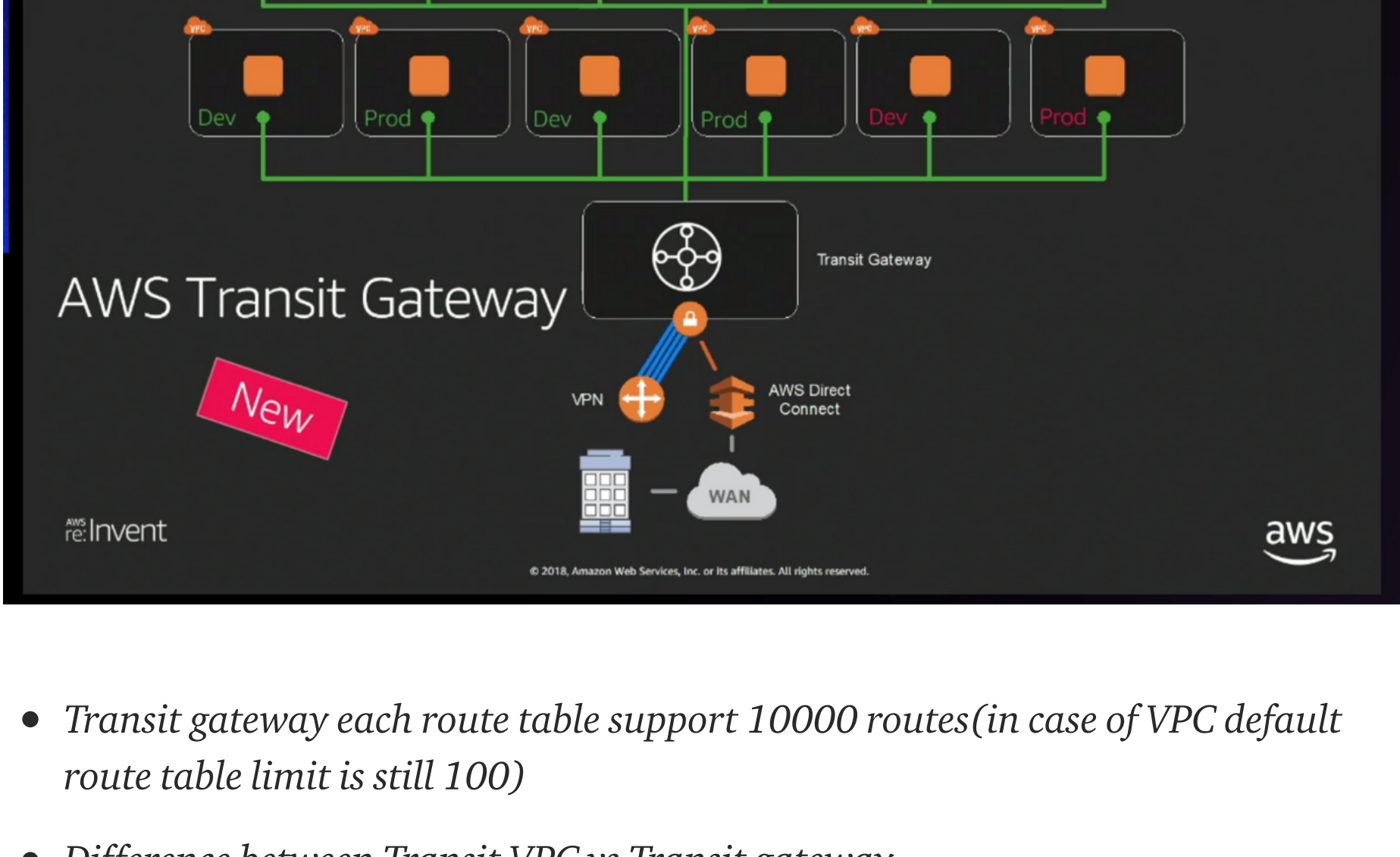
What is Transit Gateway?

AWS Transit Gateway is a service that enables customers to connect their Amazon Virtual Private Clouds (VPCs) and their on-premises networks to a single gateway

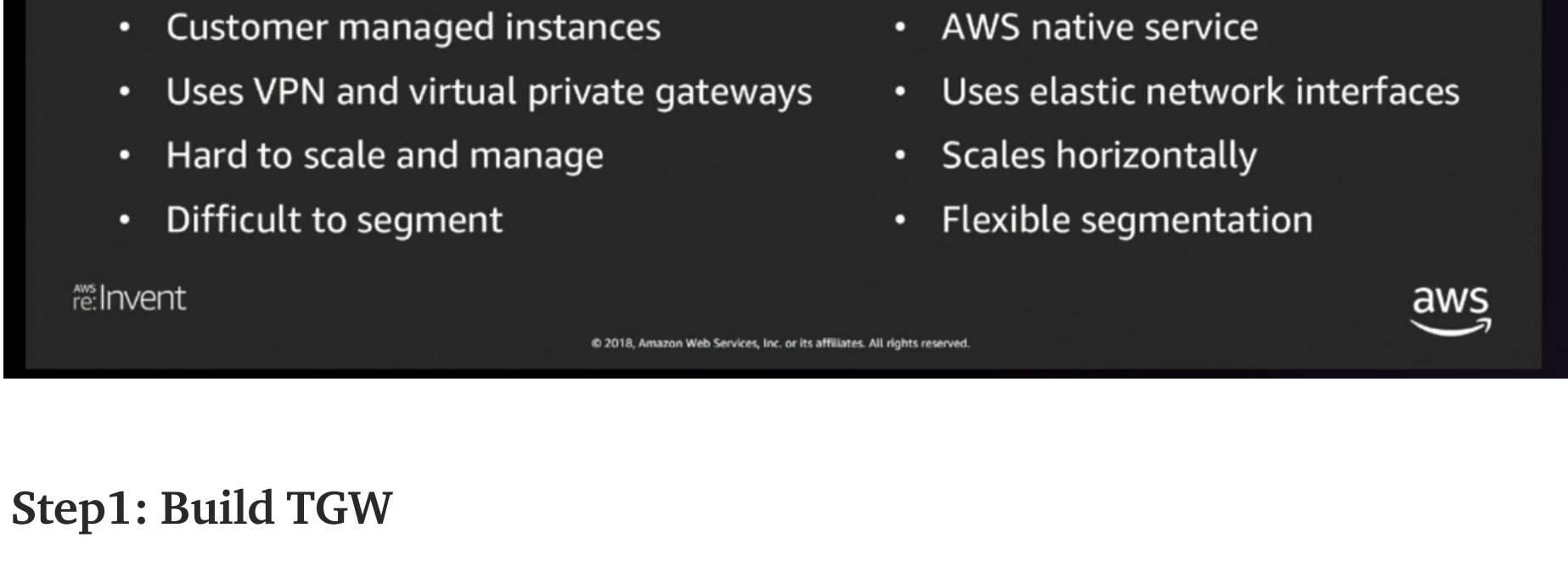


Features of Transit Gateway

- Connect thousands of Amazon Virtual Private Clouds (VPCs) and on-premises networks using a single gateway
- Hub and Spoke Network Topology
- Scales up to 5000 VPCs
- Spread traffic over many VPN connections (Scale horizontally eg: Now two VPN connection combined together give 2.5GBPS(1.25GBPS + 1.25GBPS)
- Max throughput AWS tested so far is 50GBPS
- Direct Connect is still not supported(In AWS 2019 Roadmap)
- Under the hood, to make this happen AWS is using a technology called Hyperplane(<https://twitter.com/awsreinvent/status/935740155499040768?lang=en>)

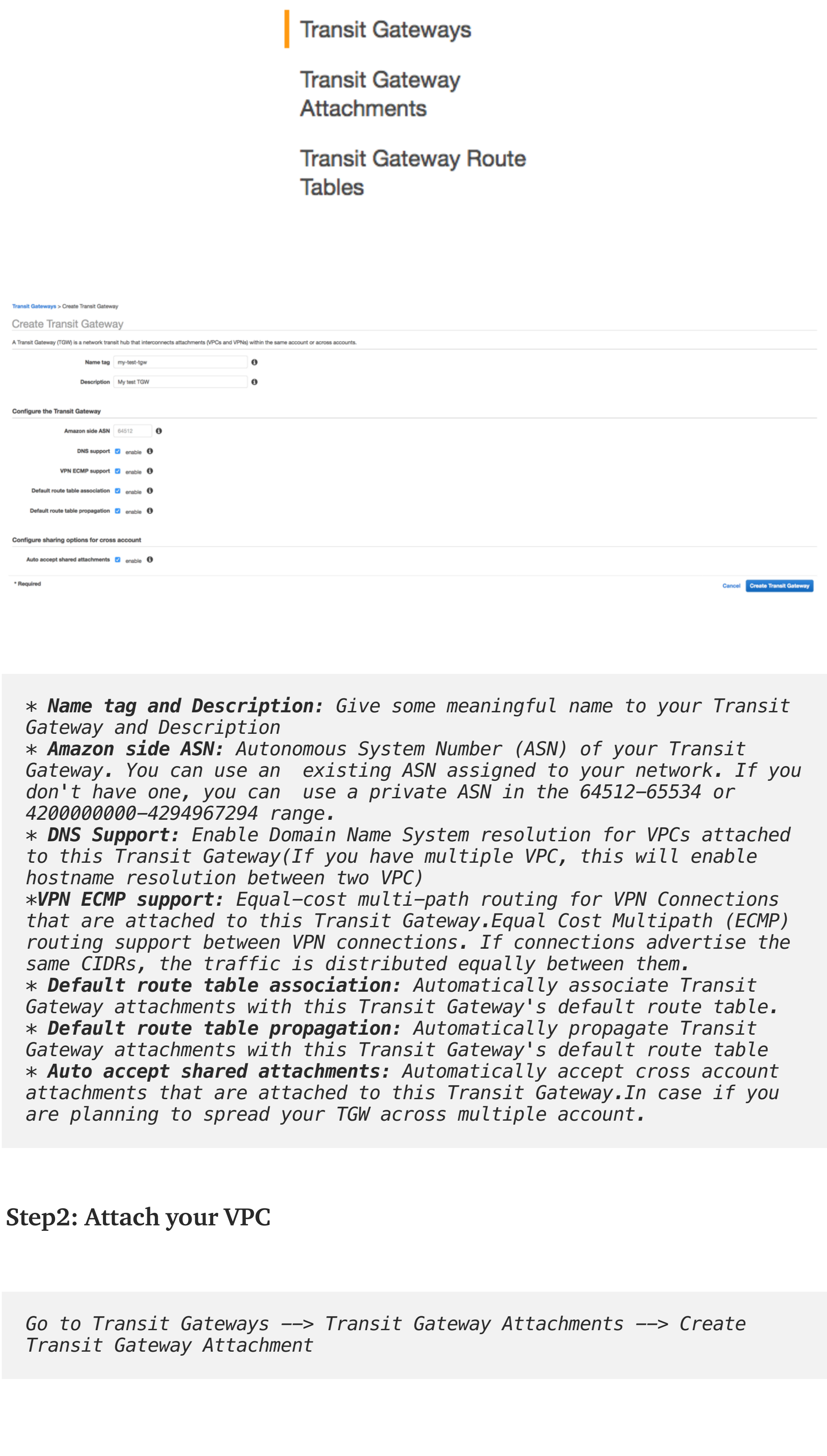


- Transit gateway each route table support 10000 routes(in case of VPC default route table limit is still 100)
- Difference between Transit VPC vs Transit gateway
- Transit Gateway is available under VPC console



Step1: Build TGW

Go to <https://us-west-2.console.aws.amazon.com/VPC> → Transit Gateways → Create Transit Gateway



Step2: Attach your VPC

Go to Transit Gateways → Transit Gateway Attachments → Create Transit Gateway Attachment

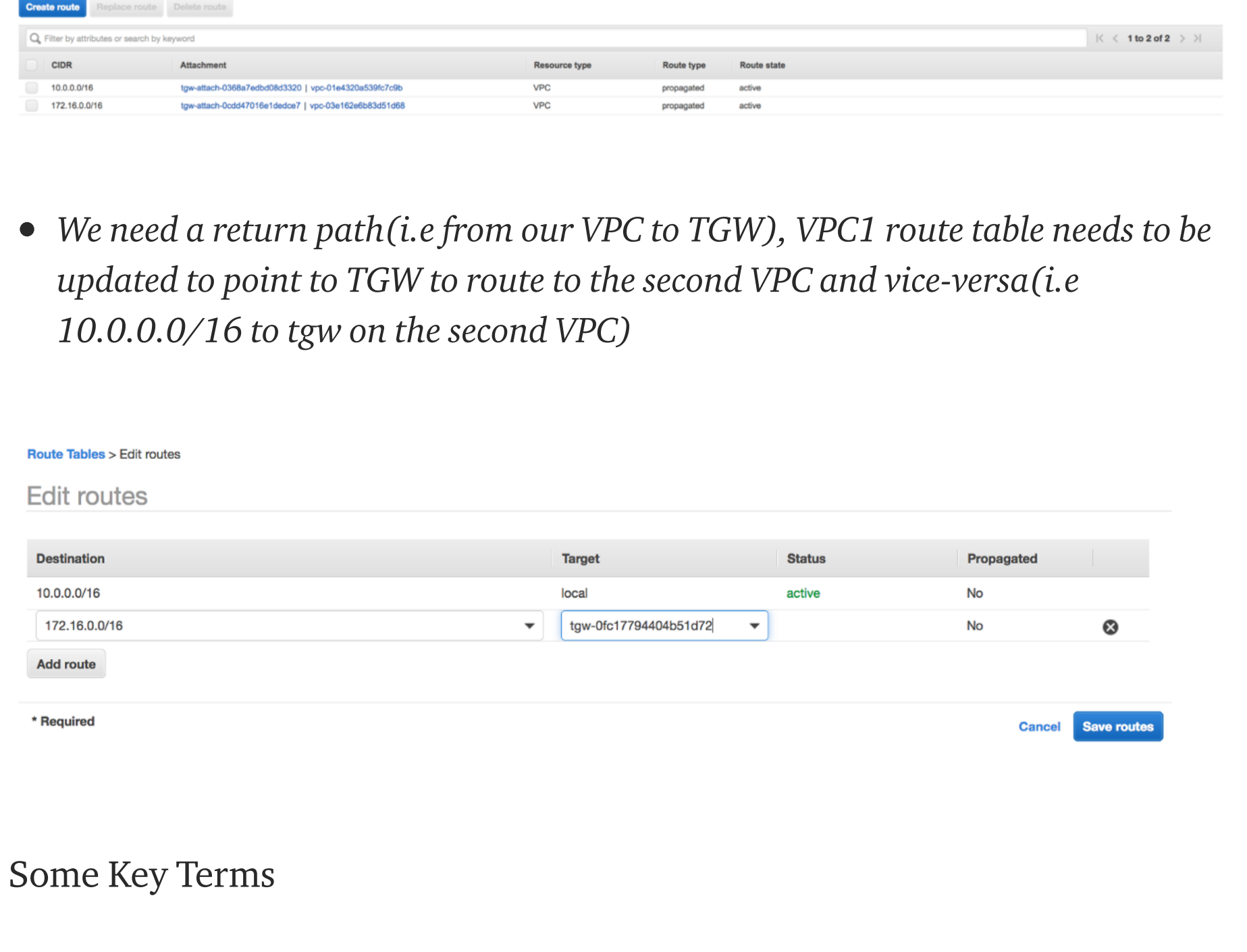


- Perform the same step for VPC2

NOTE: When you attach a VPC or create a VPN connection on a transit gateway, the attachment is associated with the default route table of the transit gateway.

Step3: Update Route Table

- If you click on the Transit Gateway Route Table, you will see we have the patch from Transit Gateway to our VPC



Some Key Terms

- **associations** — Each attachment is associated with exactly one route table. Each route table can be associated with zero to many attachments.
- **route propagation** — A VPC or VPN connection can dynamically propagate routes to a transit gateway route table.

Step4

- Try to create Instance on VPC1 and VPC2
- ssh to the instance on VPC1(using its Public IP)
- Also, copy your Public ssh key to an instance in VPC1
- Now try to ssh to an instance in VPC2, using its Private IP

Looking forward from you guys to join this journey and spend a minimum an hour every day for the next 100 days on DevOps work and post your progress using any of the below medium.

- Twitter: [@100daysofdevops](#) OR [@lakhera2015](#)
- Facebook: <https://www.facebook.com/groups/795382630808645/>
- Medium: <https://medium.com/@devopslearning>
- Slack: <https://devops-myworld.slack.com/messages/CF41EFG49/>
- GitHub Link:<https://github.com/100daysofdevops>

Reference

100 Days of DevOps — Day 0
D-day is just one day away and finally, this is a continuation of the post(I posted a month earlier)
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