Traffic Control: Network Access Control Lists and Security Groups Part 1

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TECHNICAL INSTRUCTOR

Parking Garage

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Parking Garage Security

Every car in the garage has the same level of security.

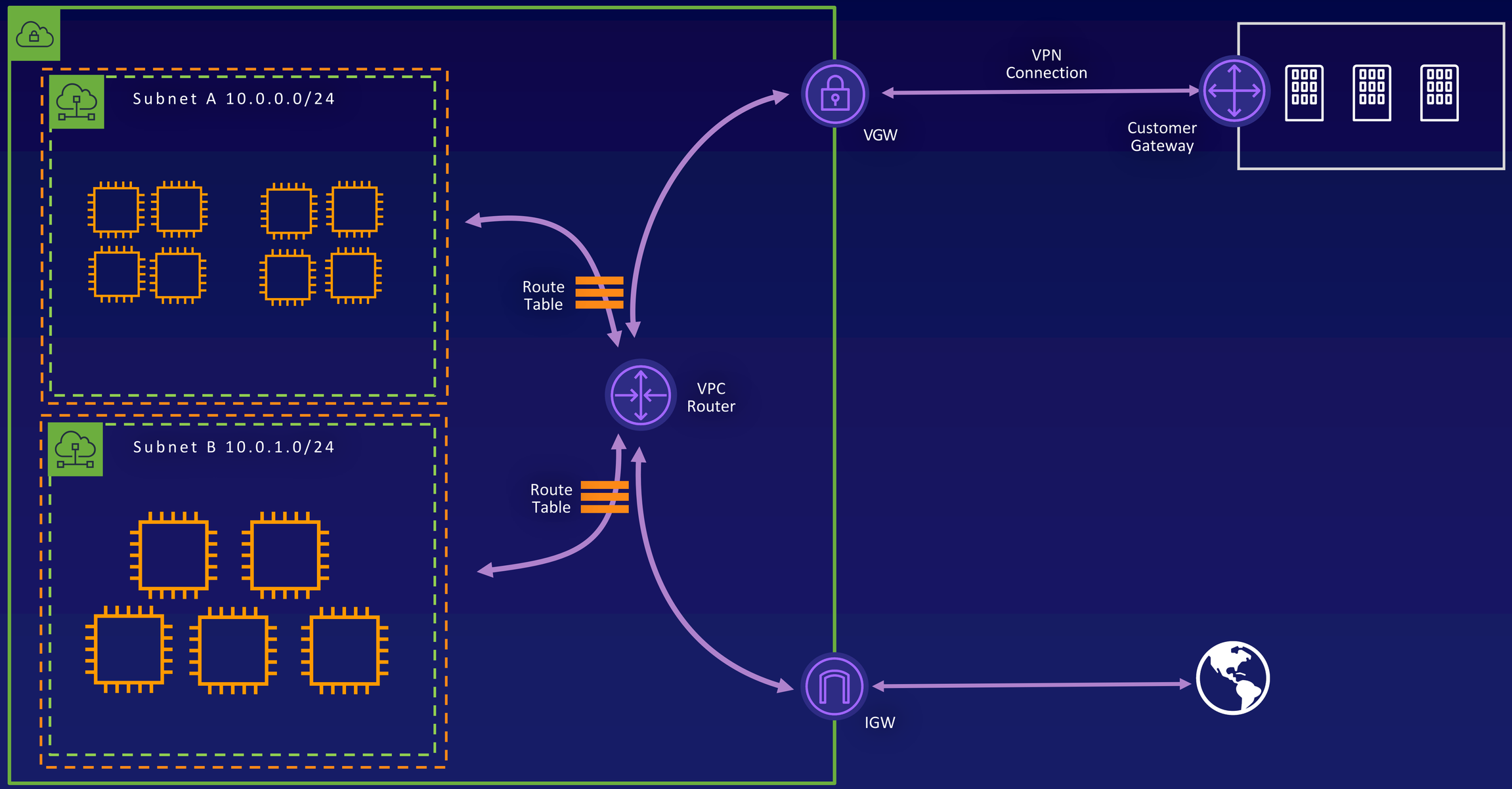
Network Access Control Lists (NACLs) are applied to any resource launched into a subnet.

Car Security

Each car has their own type of security mechanism.

Security Groups (SGs) only apply to those ENIs or resources they are associated with.

NACLs and SGs in Use



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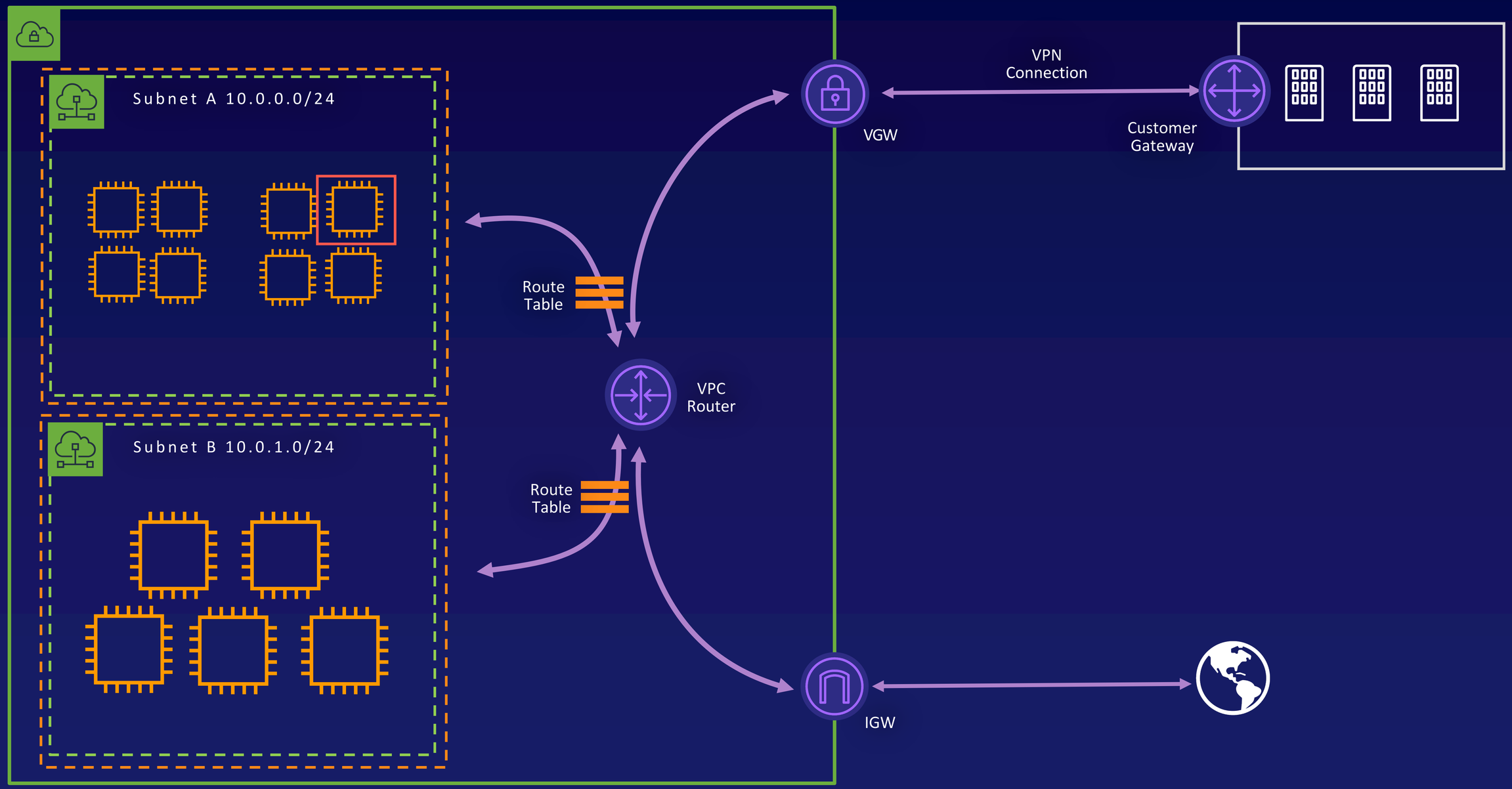

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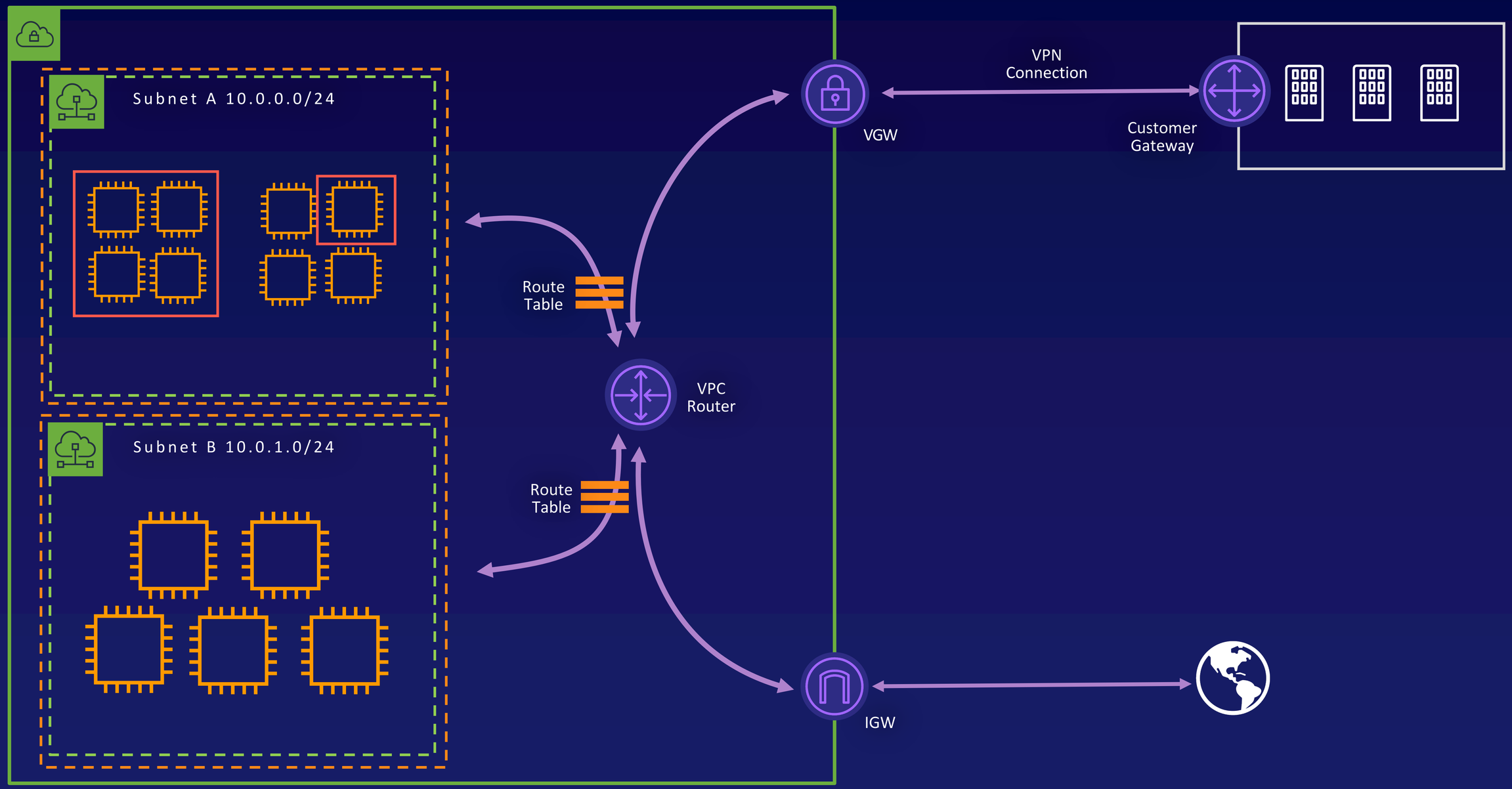

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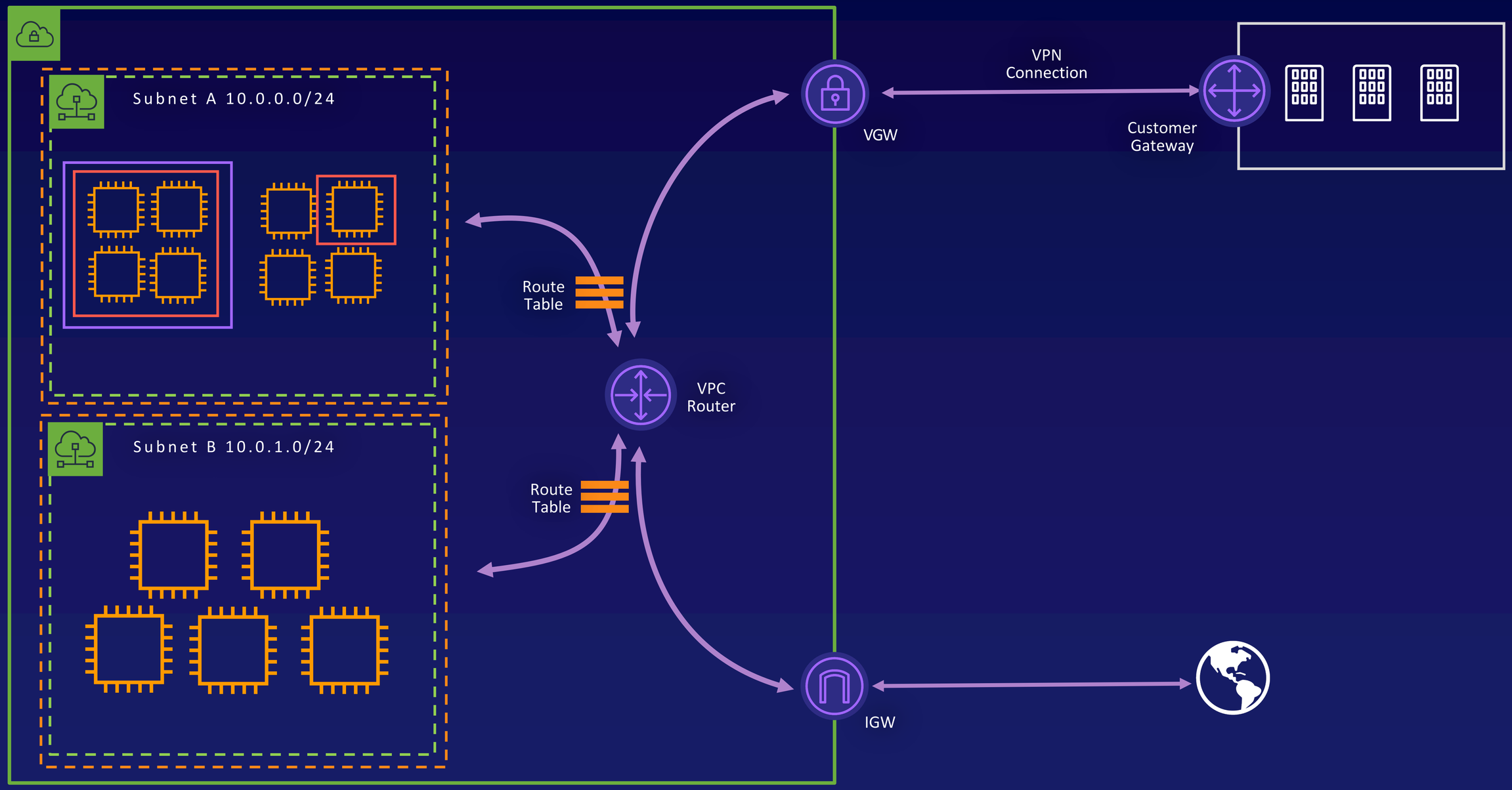
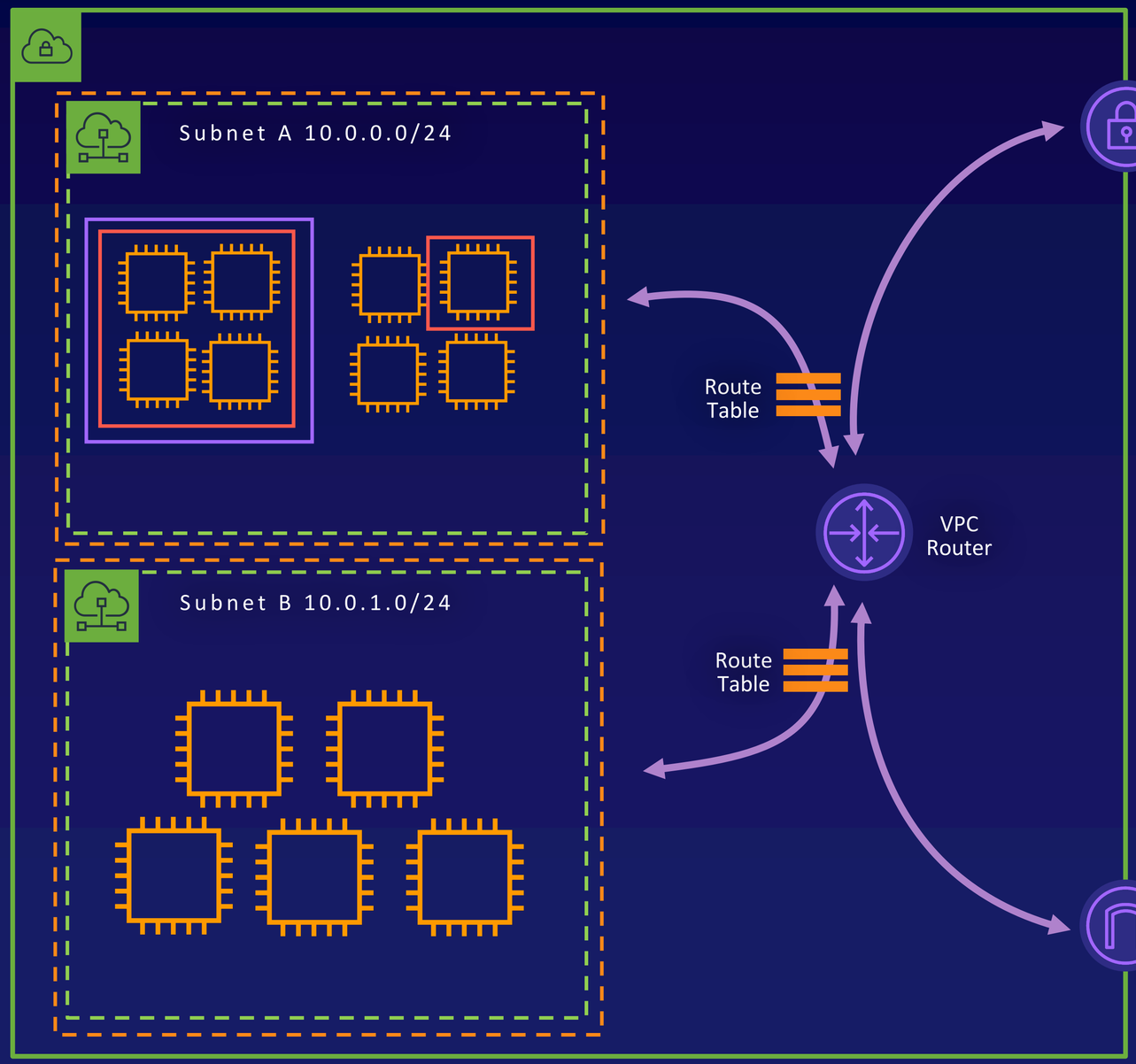


NACLs and SGs in Use

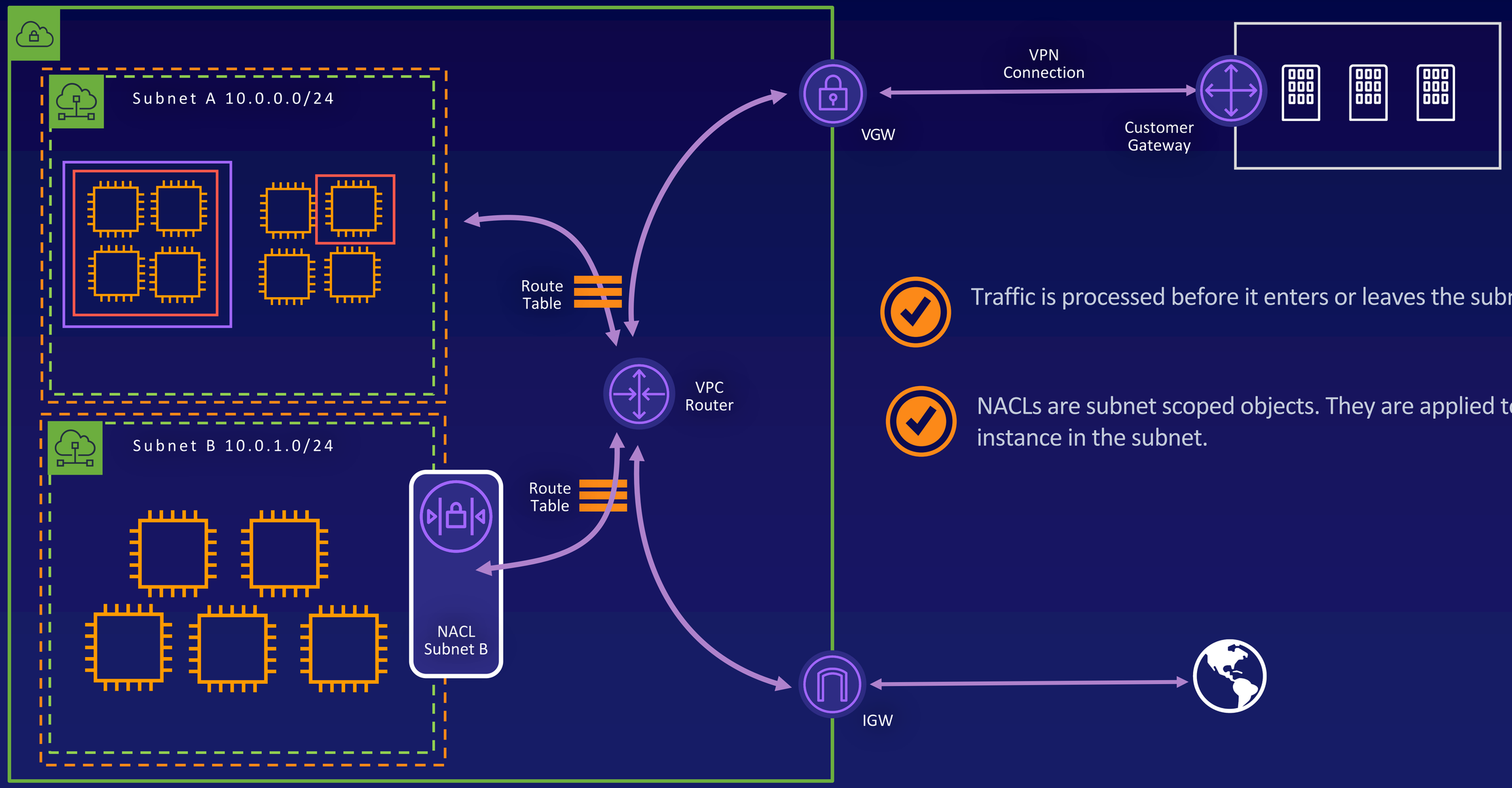
A CLOUD GURU



- The product of rules are applied when multiple Security Groups are attached.
- Security Groups are attached to an object's Elastic Network Interface.

NACLs and SGs in Use

A CLOUD GURU



Traffic is processed before it enters or leaves the subnet.

NACLs are subnet scoped objects. They are applied to any instance in the subnet.

NACLs and SGs

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Can specify allow rules, but not deny rules.	Can specify both allow and deny rules.
AWS evaluates all rules, in any order, to decide whether to allow traffic.	Rules are evaluated in order to decide whether to allow traffic.

Ingress and Egress

Ingress traffic = inbound traffic

Egress traffic = outbound traffic