# aws summit

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**DEV203** 

# **Building Cloud Grade Network Segmentation using Transit Gateway and Terraform**

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## Agenda

- How did we get here?
- Benefits of Segmentation
- Thinking through the Workflow
- Let's **Demo**!

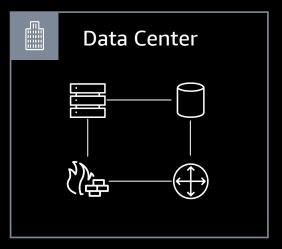


# How did we get here?

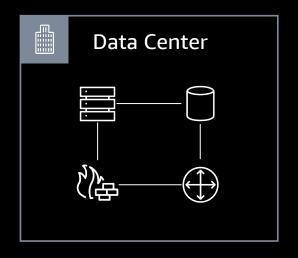


(15K or more employees)

100 – 2,000 Applications

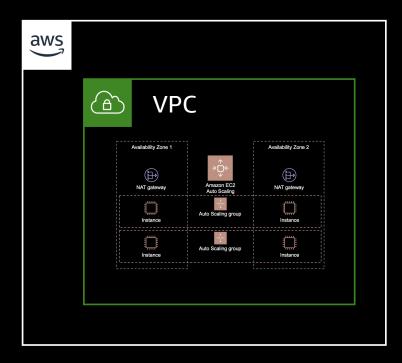


## How did we get here?



**Cloud Adoption** 

Transition business units, teams, technologies, and processes to leverage AWS



# **Benefits of Segmentation**



Reduce attack surface



Compliance Enforcement



Environment Isolation



Optimize Performance



**VPCs** 

Acceleration in AWS adoption for large enterprises leads to an increase in VPCs over time



#### **Transit Gateway**

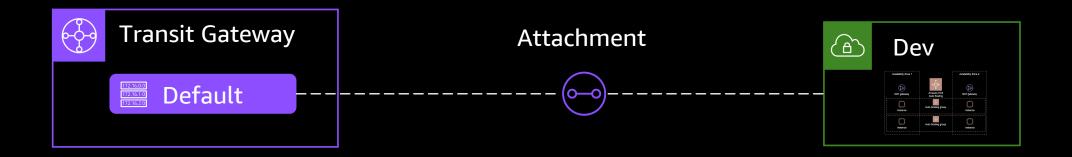
Simplifies connectivity at scale for VPCs and on-premises networking



#### Terraform

Infrastructure-as-Code tool that uses a declarative approach for managing cloud resources

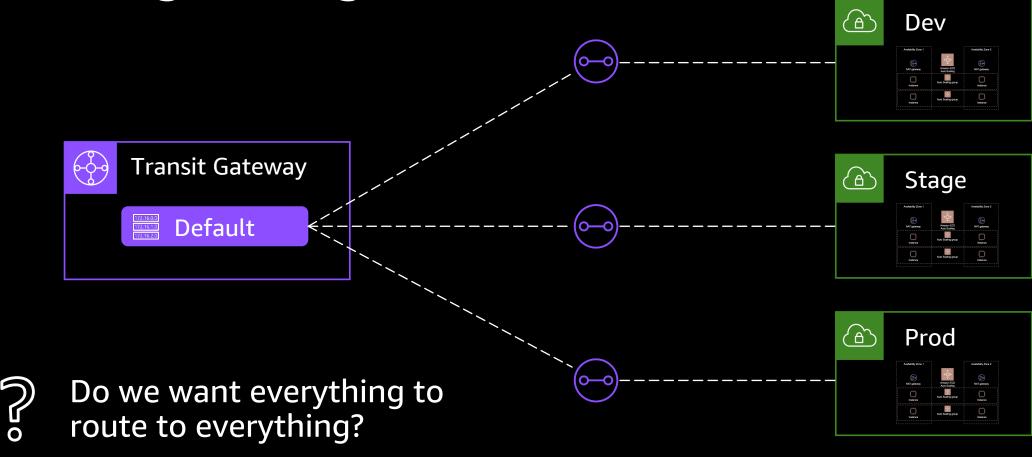




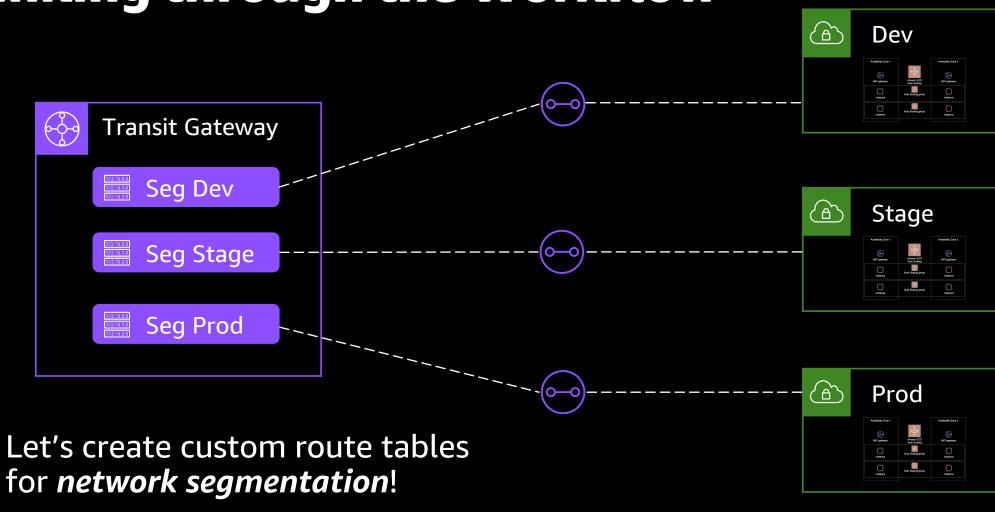


Default provider behavior will associate attachments with Transit Gateway's default route table and propagate routes







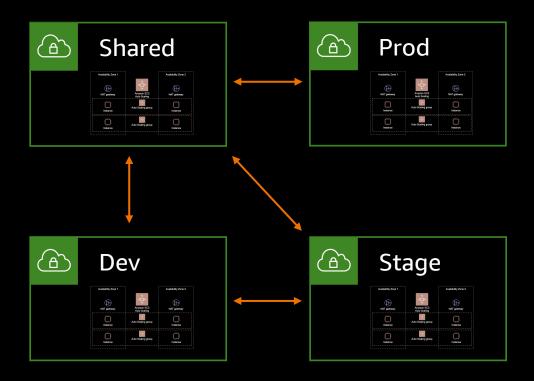




### Demo!

• 'Shared' can reach all VPCs

 'Dev' and 'Stage' have reachability to each other but not to 'Prod'



# Thank you!

#### **William Collins**

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