

The AWS logo, featuring the word "aws" in a lowercase sans-serif font with a white curved arrow underneath it, pointing from the 'a' to the 's'.

SUMMIT

WASHINGTON DC | JUNE 07, 2023

DEV203

Building Cloud Grade Network Segmentation using Transit Gateway and Terraform

William Collins

Principal Cloud Architect

Alkira



© 2023, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Agenda

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

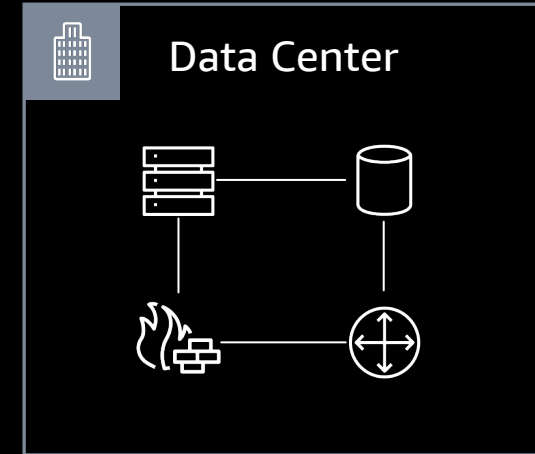
How did we get here?



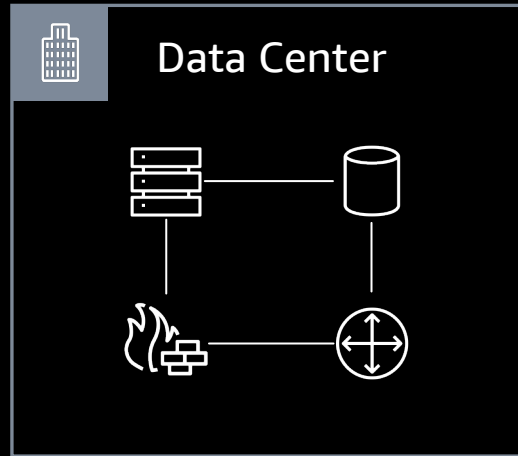
Enterprise

(15K or more employees)

*100 – 2,000
Applications*



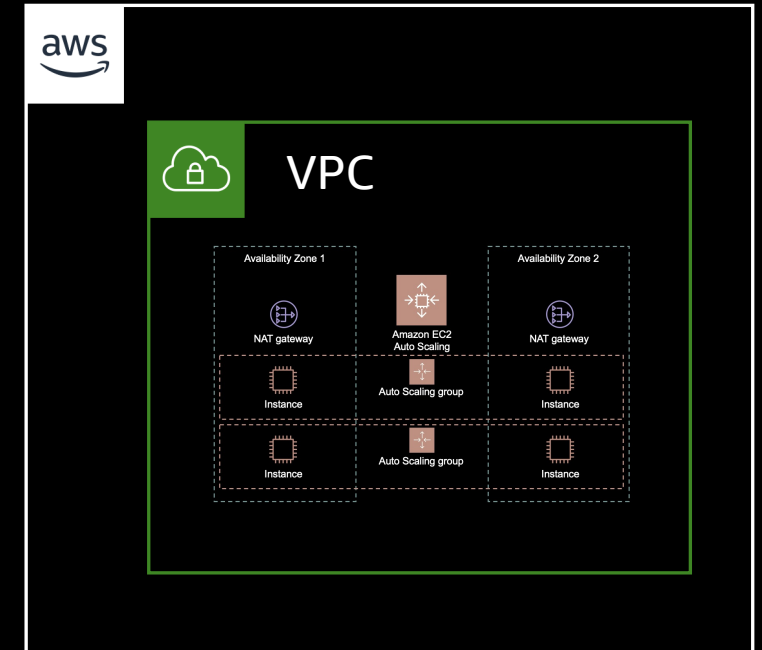
How did we get here?



Cloud Adoption



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



Benefits of Segmentation



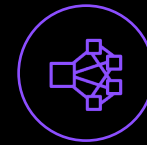
Reduce attack
surface



Compliance
Enforcement



Environment
Isolation



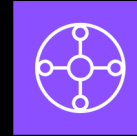
Optimize
Performance

Thinking through the Workflow



VPCs

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



Transit Gateway

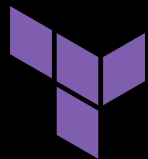
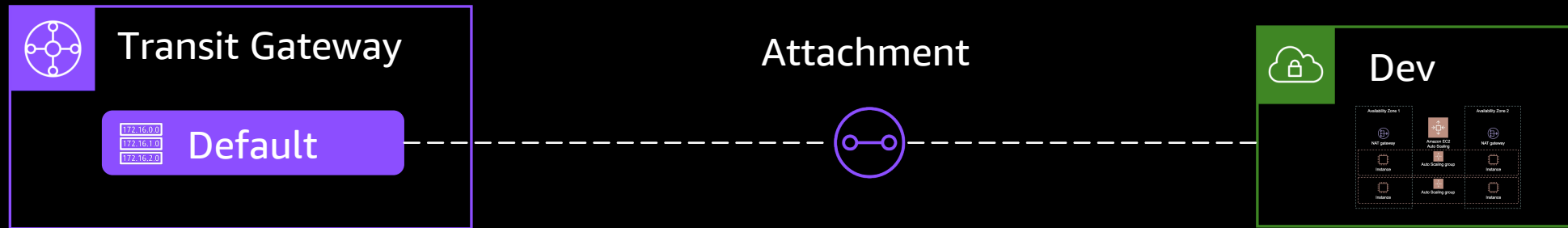
Simplifies connectivity at scale for VPCs and on-premises networking



Terraform

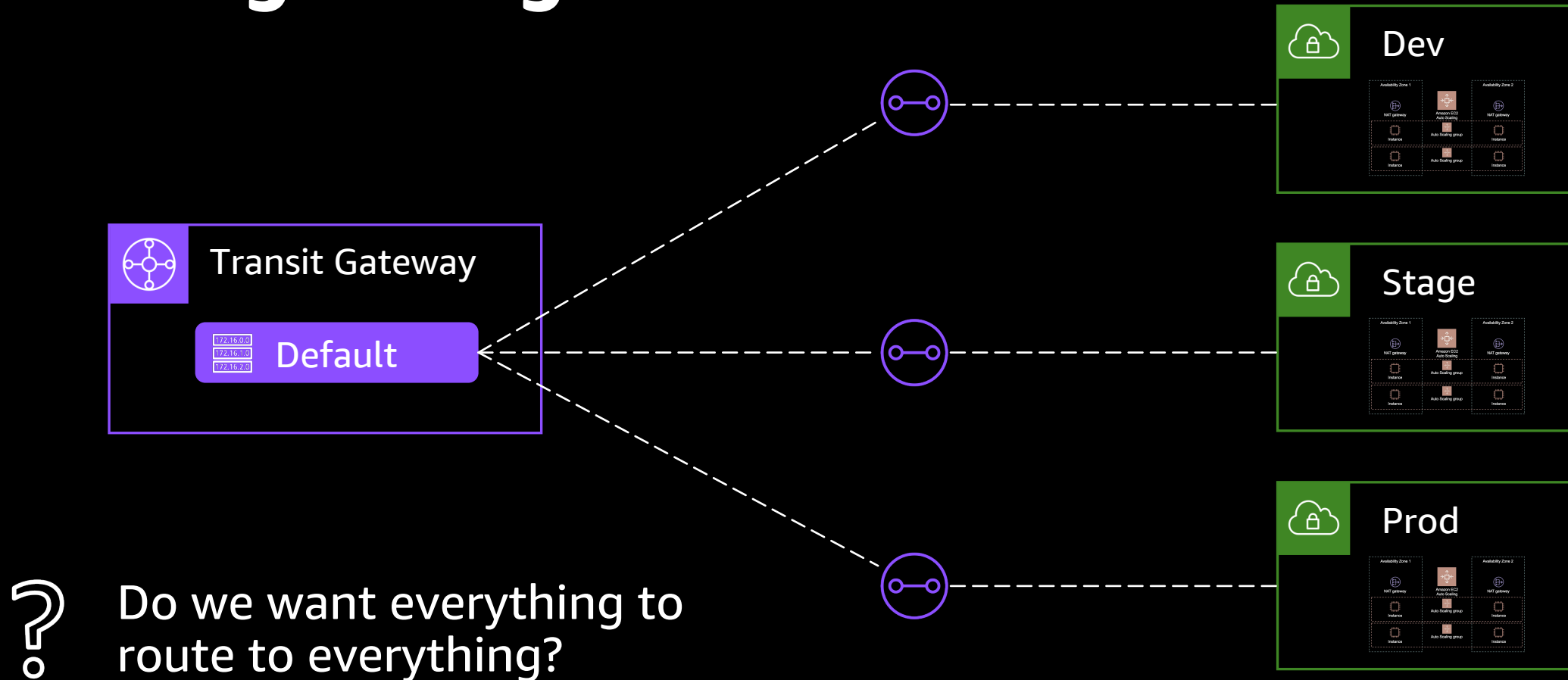
Infrastructure-as-Code tool that uses a declarative approach for managing cloud resources

Thinking through the Workflow

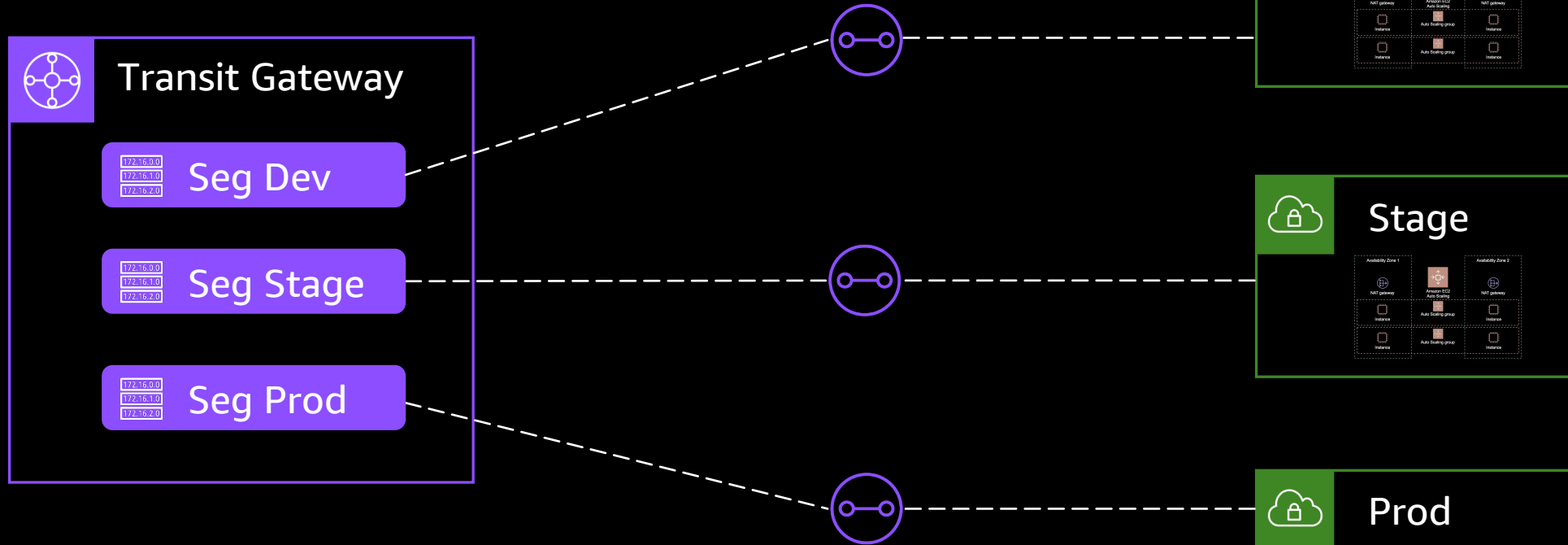


Default provider behavior will associate attachments with Transit Gateway's default route table and propagate routes

Thinking through the Workflow



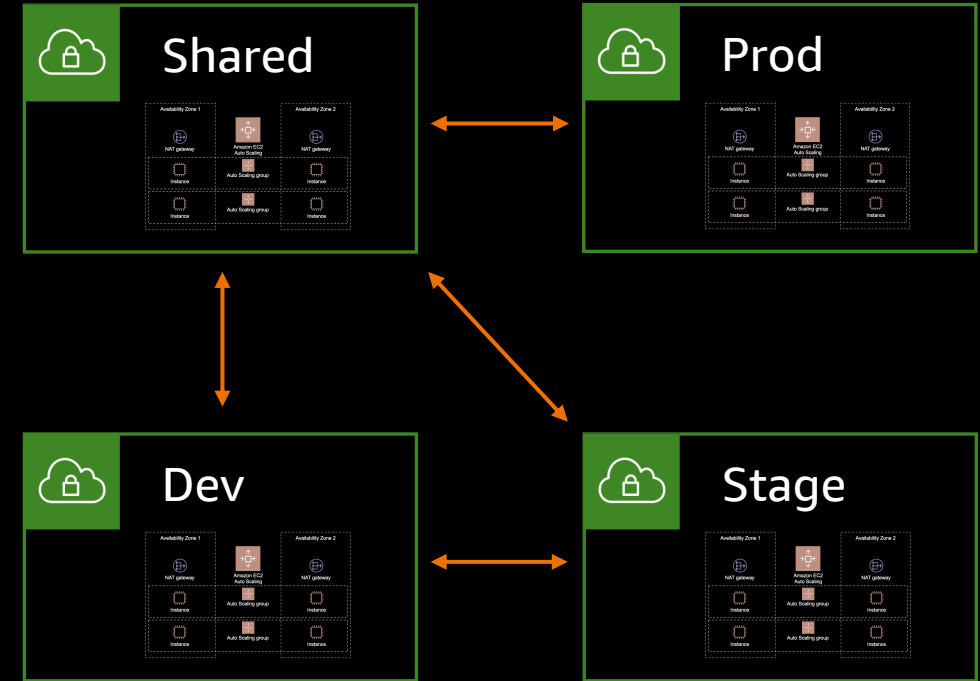
Thinking through the Workflow



Let's create custom route tables for *network segmentation*!

Demo!

- *'Shared'* can reach all VPCs
- *'Dev'* and *'Stage'* have reachability to each other but not to *'Prod'*



Thank you!

William Collins

 @wcollins502

 [linkedin.com/in/william-collins](https://www.linkedin.com/in/william-collins)

 wcollins.io



Please complete the session survey in the mobile app

