Cornell AWS Direct Connect Costs

Introduction

The management and routing simplification offered by the v2 (2023) architecture comes with a shift in costs seen by Cornell AWS accounts using Direct Connect, but the overall impact to Cornell AWS account costs are negligible.

V1 Architecture (pre-2023)

Cornell AWS accounts using Direct Connect saw these Direct Connect-related charges in the pre-2023 architecture:

- FREE
  - Bandwidth charges from traffic **TO** VPCs, **FROM** campus is free.
- CUSTOMER COST
  - Bandwidth charges for traffic **FROM** VPCs **TO** campus using the Direct Connect is charged at $0.02/GB. This cost was born by each Cornell AWS account using Direct Connect in the pre-2023 architecture.

V2 Architecture (2023 and beyond)

Cornell AWS accounts using Direct Connect see these Direct Connect-related charges in the 2023 architecture:

- FREE
  - Bandwidth for traffic **FROM** the Transit Gateway **TO** VPCs is free.
- FREE to Cornell AWS Accounts
  - Every VPC connected to the Transit Gateway is charged $0.05/hr by AWS. These charges will appear in customer AWS account invoices, ***but*** the charges will be paid for by CIT since a **Cost Center** tag on the Transit Gateway attachment automatically will automatically direct those charges to a CIT KFS account. This charge accounts for about $36/mo.
- CUSTOMER COST
  - Bandwidth charges for traffic **FROM** VPCs **TO** the Transit Gateway is $0.02/GB. This cost is born by the customer and the magnitude of the charge will be similar to the Direct Connect egress charges born by the customer in the v1 architecture.

ⓘ   Even though the 2023 Direct Connect architecture fully interconnects all VPCs using Direct Connect (i.e., attached to the Transit Gateway), establishing peering directly between VPCs can cut costs because peering connections have no bandwidth charges. See Peering AWS VPCs that Use Direct Connect.