I’m Corey Quinn!

Corey is the Chief Cloud Economist at The Duckbill Group, where he specializes in helping companies improve their AWS bills by making them smaller and less horrifying. He also hosts the "Screaming in the Cloud" and "AWS Morning Brief" podcasts; and curates "Last Week in AWS," a weekly newsletter summarizing the latest in AWS news, blogs, and tools, sprinkled with snark and thoughtful analysis in roughly equal measure.

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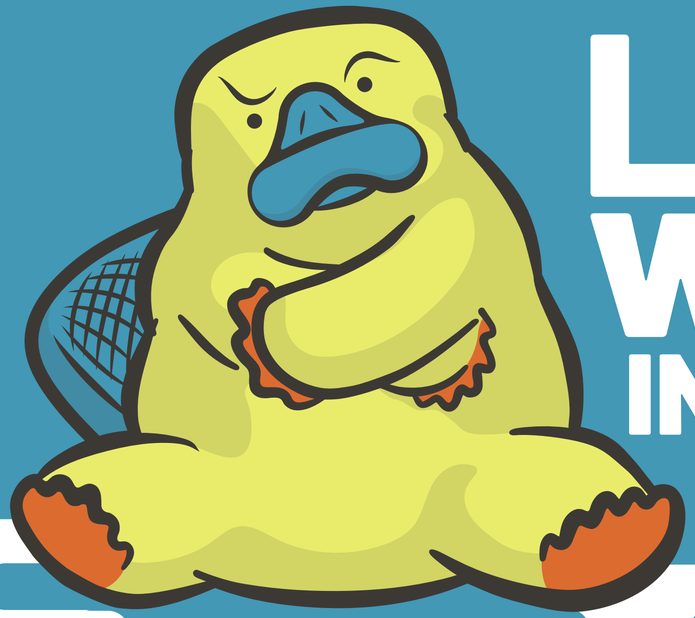
Key Facts

- The Duckbill Group provides AWS cost optimization.
- We produce three podcasts and two newsletters covering all things AWS:
  - *AWS Morning Brief* podcast
  - *Last Week in AWS* newsletter
  - *Meanwhile in Security* newsletter and podcast
  - *Screaming in the Cloud* podcast
  - **Subscribe at: LastWeekInAWS.com**
- Our mascot is a venomous, snarky platypus.



Last week IN AWS

You Suck at Cloud and It's ~~Not~~ All Your Fault

Most Cost Savings Talks

Take notes; we won't be revisiting these

- Buy RIs or Savings Plans
- Delete EBS Snapshots
- Turn That Shit Off
- Delete Failed Multipart Upload Artifacts
- Upgrade Old Instances
- Kidnap Your Account Manager's Pets
- S3 Lifecycle Policies
- Remove Unattached EBS Volumes
- Use Spot Fleets if Your Workloads Let You
- Release Unused EIPs

Kubernetes

Moving data around over and over and over and…

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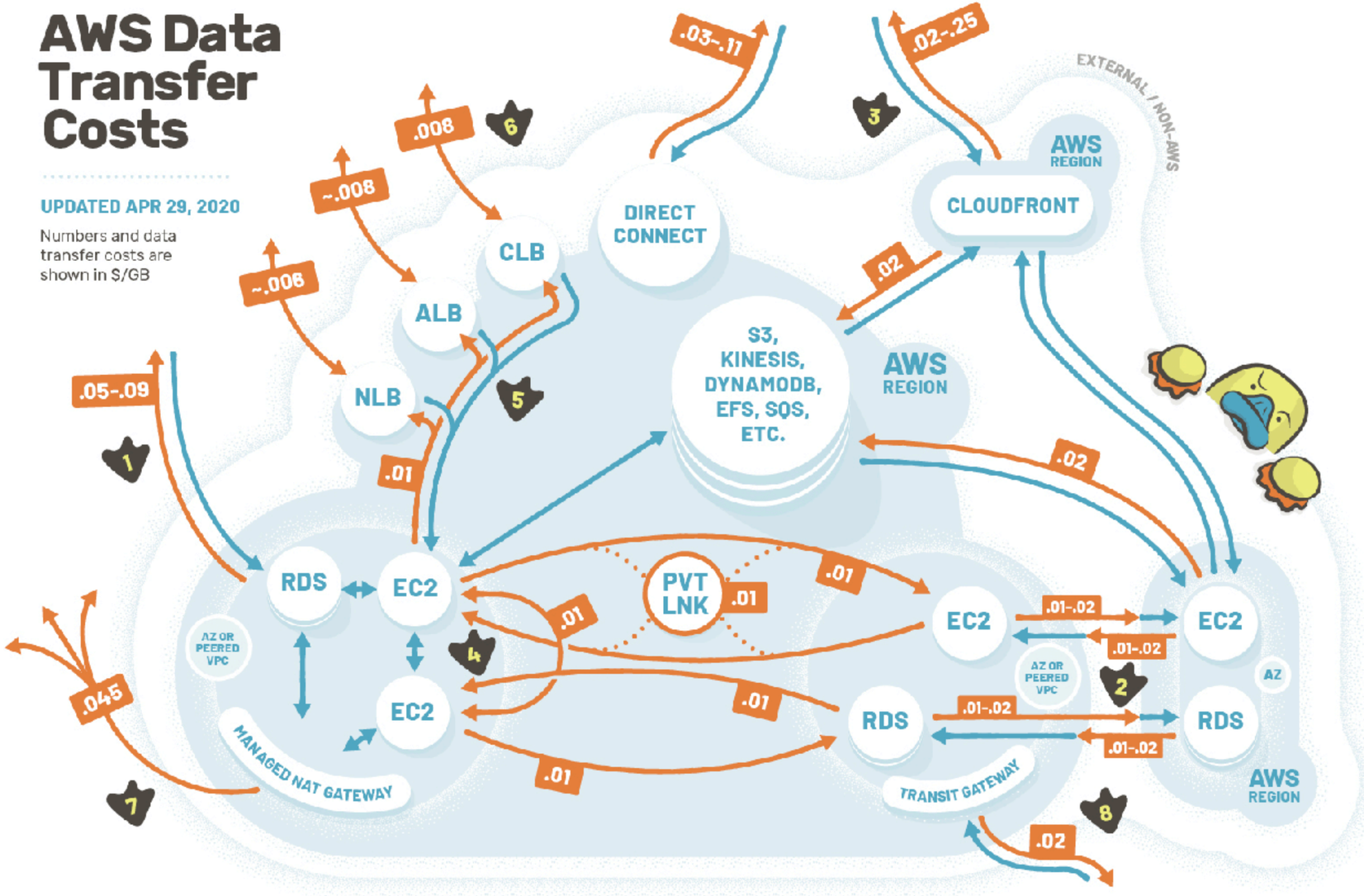
AWS Data Transfer Costs

UPDATED APR 29, 2020

Numbers and data transfer costs are shown in $/GB



the duckbill group | **Still confused as hell? Get help at duckbillgroup.com**

Inbound traffic is typically free – outbound is not. Some (but not all) internal traffic is **free.**

Outbound traffic costs are shown **per transmission.**

1. Direct outbound data starts at **$.09/GB** for less than 10TB, and discounts with volume. **First 1GB is free.**
2. Region-to-region traffic is **$.02/GB** when it exits a region for indicated services except between us-east-1 and us-east-2, where it's **$.01/GB.** Even data wants to get out of Ohio.
3. Outbound CloudFront prices are highly variable by geography and regional edge cache and start at **$.085/GB** in US/Canada.
4. Internal traffic via public or elastic IPs incurs **additional fees** in both directions.
5. Cross-AZ EC2 traffic within a region costs as much as region-to-region. ELB-EC2 traffic is **free** except outbound crossing AZs.
6. Elastic Load Balancing: Classic and Network LB is priced per GB. Application LB costs are in LCUs, not $/GB.
7. Traffic via Managed NAT Gateway – regardless of destination – costs an additional **$.045/GB** on top of other transfer, including internal transfer (S3, Kinesis, etc.).
8. Data processing charges apply for each gigabyte sent to the AWS Transit Gateway – whether from a VPC, Direct Connect or VPN.

Inspired by Open Guide to AWS's data transfer diagram
github.com/open-guides/og-aws

Data should live on the cheapest storage possible.

Chasing the Multi-Cloud Dragon

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One Big Number, Many Different Business Units

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Predict the Bill Before It Predicts You

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Stop getting stuck in datacenter thinking.
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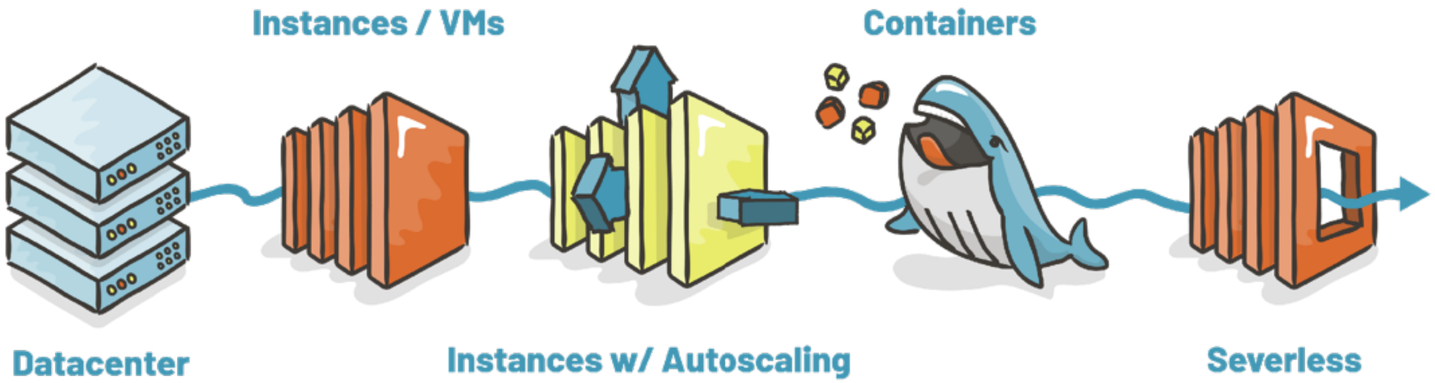
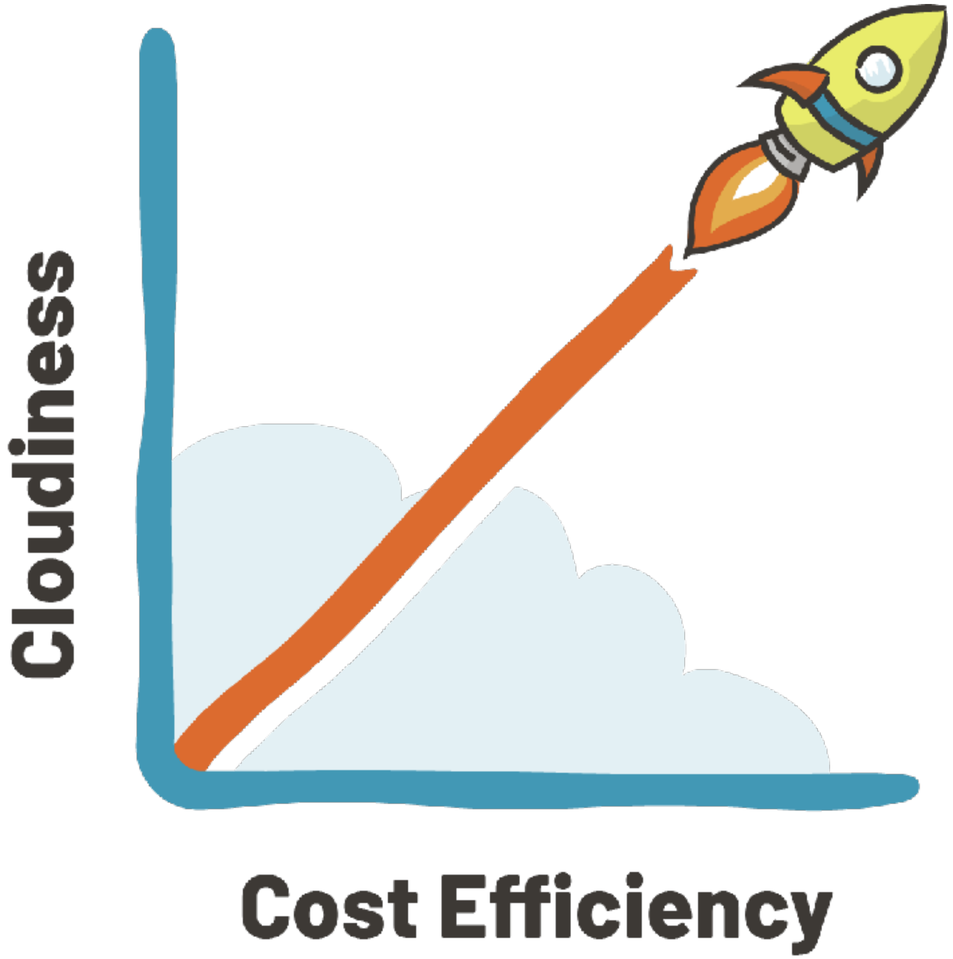
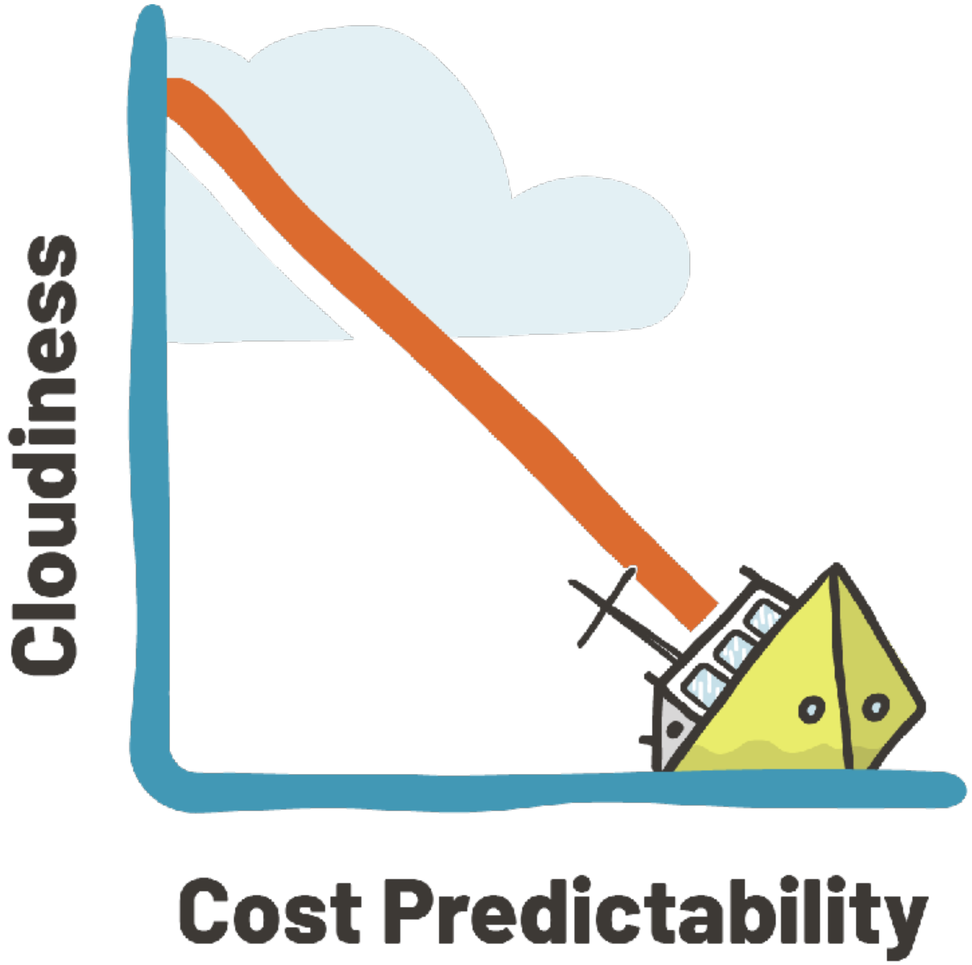
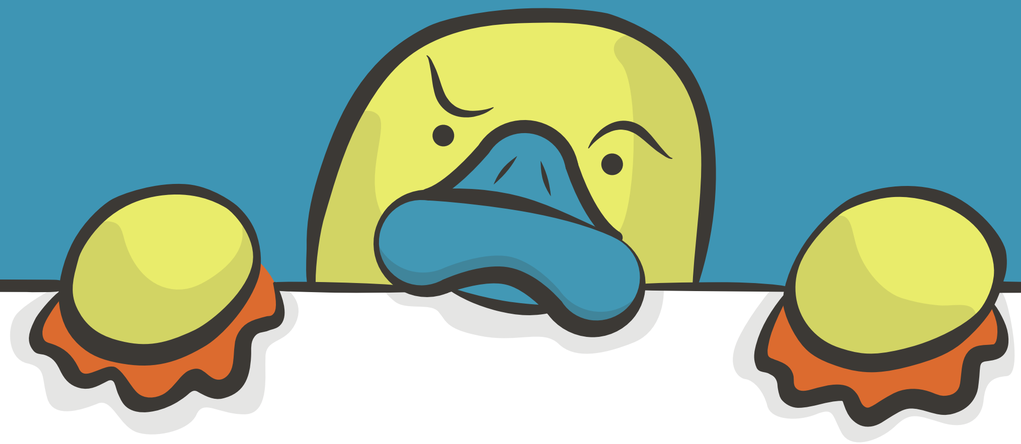

Instances / VMs
Containers
Datacenter
Instances w/ Autoscaling
Severless


Cloudiness
Cost Efficiency


Cloudiness
Cost Predictability



LastWeekInAWS.com/DOES

- *The Unconventional Guide to AWS Cost Management*
- *Understanding Data Transfer in AWS Diagram*
- *Last Week in AWS, Screaming in the Cloud, and Meanwhile in Security podcasts and newsletter signup.*