

The background features a dark blue gradient with abstract, overlapping shapes in shades of purple and magenta. Two thin, light blue lines intersect to form a large 'A' shape. The text is positioned on the left side of the image.

AWS re:Invent

DECEMBER 2 - 6, 2024 | LAS VEGAS, NV

NET217 - NEW

Accelerate data transfer to the cloud with AWS Data Transfer Terminal

Camden Forgia

(he/him)

Principal Product Manager
Amazon Web Services

Gaurav Mudgal

(he/him)

Senior Manager Internet Engineering
Amazon Web Services



AWS Data Transfer Terminal

01 Data generation and uploads

02 Example use cases

03 Easier, flexible ways to upload

04 Experience

05 Benefits

06 Thank you!

Data cycle



A comprehensive set of services for your data foundation

A horizontal row of 16 icons representing various AWS services. From left to right, the icons are: a cloud with up and down arrows, a folder, a person with a brain, the AWS logo, a funnel, a server rack, a bucket, a cloud with arrows, the text 'FSX', a document with a cloud, a cube, a gear with a wrench, a magnifying glass, a network diagram, a line graph, a brain with neural connections, and a microchip. To the right of the icons is the text "... and more".



Where the data is generated is important



Data center/On premises

vs.

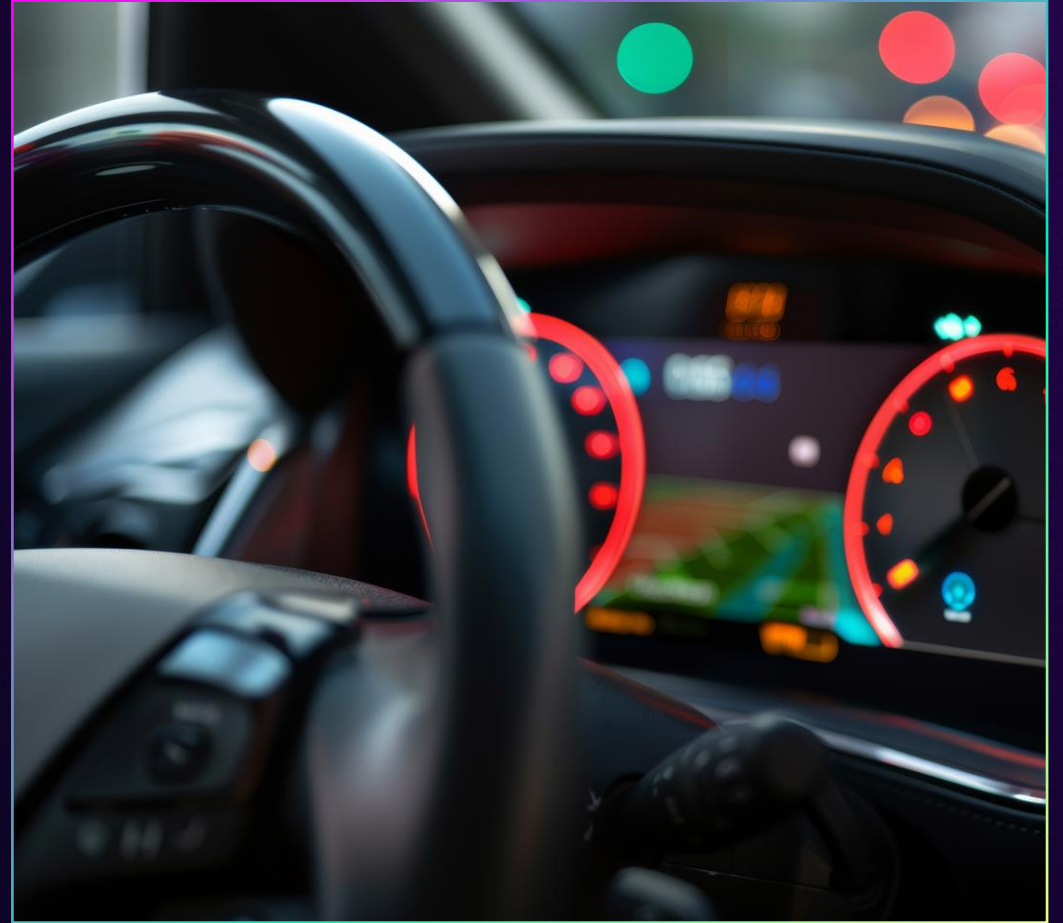


Physical world

Example use case 1: Advanced driver assistance system

Fleets of vehicles generating terabytes of data

In metros around the world



Example use case 2: Media production

Active productions generating terabytes of raw content

In many locations around the world



What are your use cases?



Trouble digitizing and harnessing fragmented, siloed, and distributed data

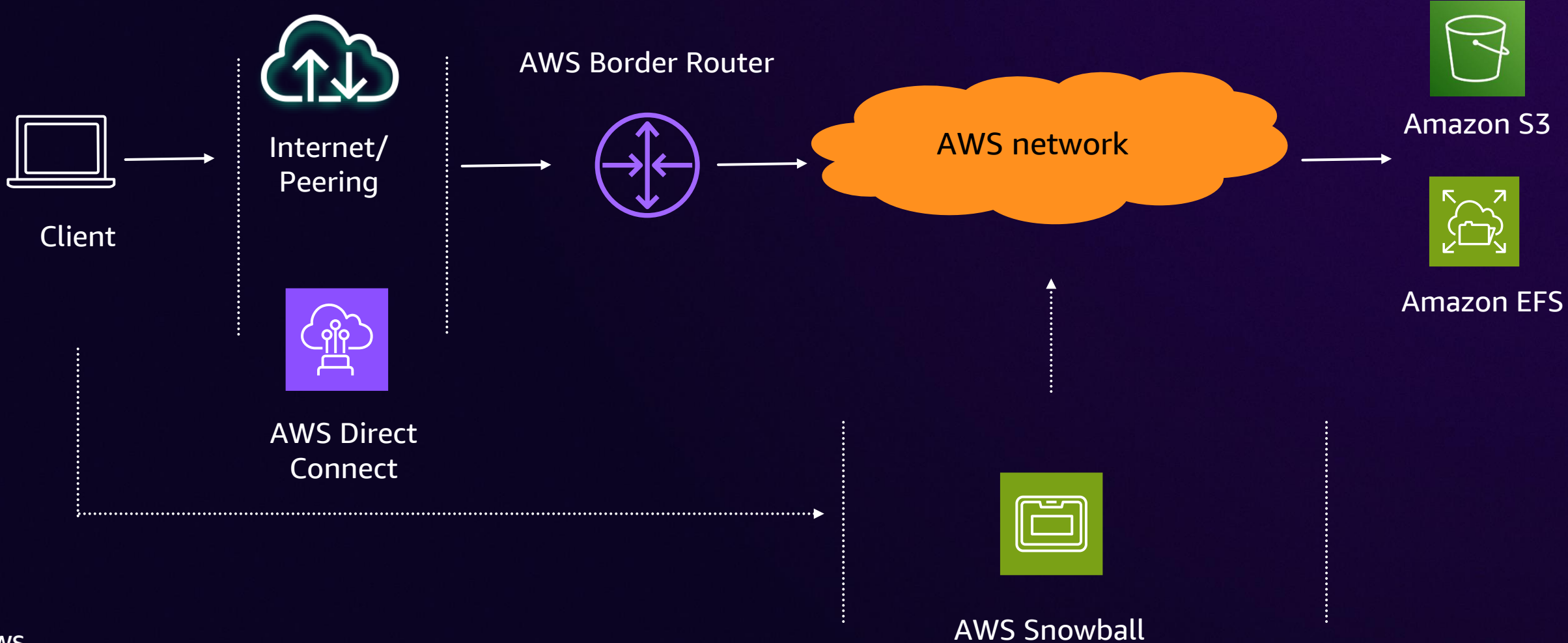


Looking to find ways to securely collect, process, and manage data from device to cloud



Want to deliver innovative and differentiated experiences

Data uploads – Most popular ways



Some concerns



Relying on internet

Unpredictable,
slower speeds



Building upload locations

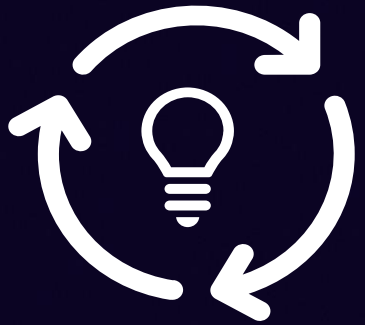
Capital-intensive,
limited locations,
long-term
commitments



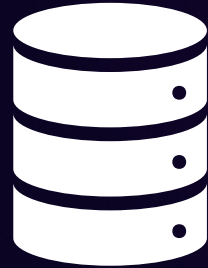
Shipping data

Logistical overhead,
time-consuming

Data upload inefficiencies



Data generated



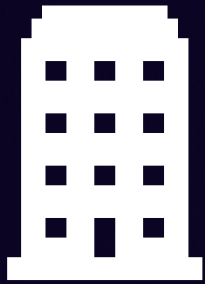
Data stored on
discrete device



Delays in getting the data in the cloud
can hinder value-added workflows



What is needed?



On-demand

Simple, flexible,
anytime, anywhere



Complete control

No shipping, minimal
logistical constraints



Accelerated upload

Safe, secure, reliable,
high speed

AWS Global Infrastructure

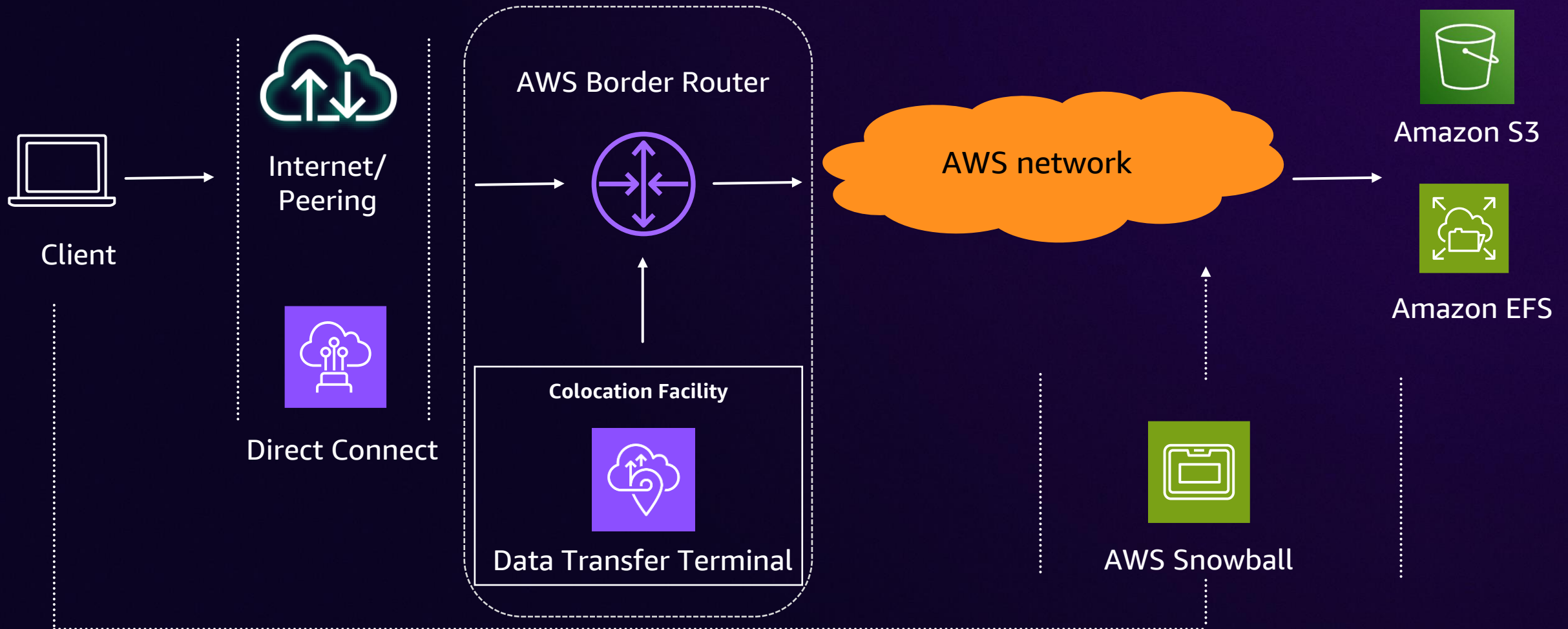
AWS REGIONS, EDGE LOCATIONS, AND THE GLOBAL BACKBONE

AWS NETWORK BACKBONE

- Redundant 400 Gbps links
- 245+ Countries & Territories
- Between all Regions,
Local Zones, and Edge Locations



Data uploads – A new possibility



AWS Data Transfer Terminal is an accelerated bulk data upload service



Safe and secure physical location

Reservable and on-demand

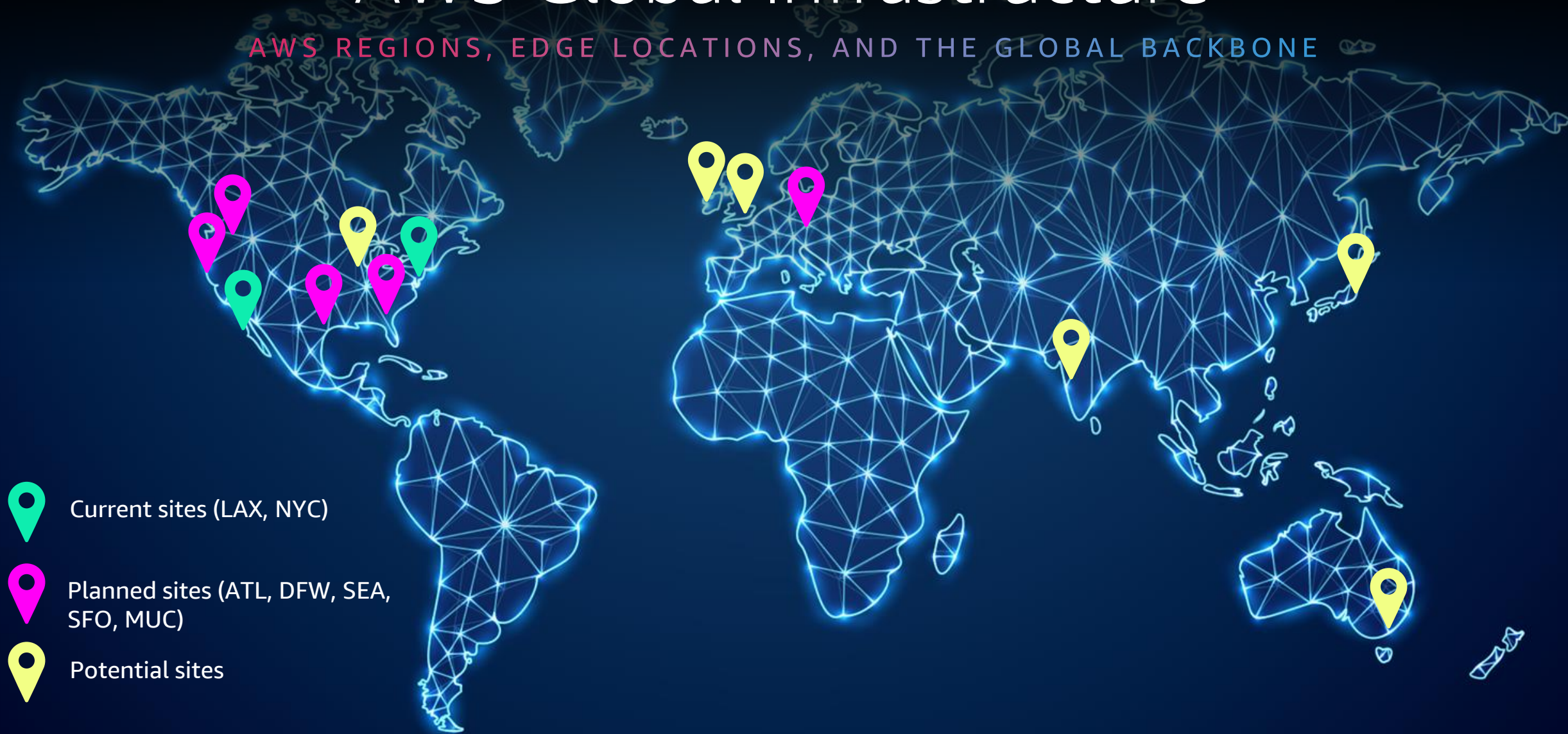
Bring your storage system

Connect to the AWS network


Upload data to AWS endpoints at speeds
up to 400 Gbps

AWS Global Infrastructure

AWS REGIONS, EDGE LOCATIONS, AND THE GLOBAL BACKBONE



 Current sites (LAX, NYC)

 Planned sites (ATL, DFW, SEA, SFO, MUC)

 Potential sites

The experience



How AWS Data Transfer Terminal works



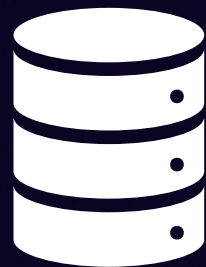
Reservation by
process owner



Confirmation &
details



Data creation



Physical store



Any operator



Direct access to
AWS network, i.e.
Data Transfer
Terminal



Uploaded data
accessible via
AWS Cloud

Console: AWS Data Transfer Terminal

aws [Search] [Alt+S] Oregon

Data Transfer Terminal

Transfer teams
Facilities

Documentation

Networking & Content Delivery

AWS Data Transfer Terminal

Facilities near you for high-speed uploads

AWS Data Transfer Terminal provides a facility to quickly transfer data to and from Amazon cloud services, such as Amazon S3. Bring your own storage devices and leverage our high-speed data network connections to achieve transfer speeds up to 400 Gbps.

Get started

Make a reservation to upload your data at an AWS Data Transfer Terminal facility.

Get started

Pricing

Console: Create transfer teams

aws [Search] [Alt+S] Oregon

Data Transfer Terminal > Transfer teams


Data Transfer Terminal

Transfer teams

Facilities


Documentation

Getting started with AWS Data Transfer Terminal




Step 1. Create and name your transfer team

Give your transfer team a name and description.




Step 2. Add personnel

Add process owners and data transfer specialists to the team for making reservations and accessing Data Transfer Terminal locations.



Step 3. Make a reservation

Schedule access to the selected Data Transfer Terminal facility.




Step 4. Go to Data Transfer Terminal

When transfer team personnel receive a reservation confirmation email, they can access the specified Data Transfer Terminal facility during the scheduled reservation date and time.

Transfer teams

Transfer teams are groups of personnel for scheduling and conducting data transfers.

 [Create transfer team](#) [Create reservation](#)

Console: View facilities

The screenshot shows the AWS Data Transfer Terminal console. At the top, there is a navigation bar with the AWS logo, a search bar, and various utility icons. Below this, the breadcrumb navigation shows 'Data Transfer Terminal' > 'Facilities'. The main content area is titled 'Facilities (0/1)' and includes a 'Create reservation' button. A table lists one facility: 'QTS. JFK Piscataway. NJ'. The left sidebar contains navigation links for 'Data Transfer Terminal', 'Transfer teams', 'Facilities', and 'Documentation'.

Facilities (0/1) Create reservation

Facilities near you for secure, high-throughput data uploads to the cloud.

< 1 > ⚙️

Name	Description
QTS. JFK Piscataway. NJ	

Data Transfer Terminal <

- Transfer teams
- Facilities**
- Documentation [🔗](#)

Console: Create a reservation

aws [Search] [Alt+S] Oregon

[Data Transfer Terminal](#) > Create reservation

Step 1
Specify reservation details

Step 2
Review and create

Specify reservation details

Complete the sections below to schedule a Data Transfer Terminal reservation.

Transfer team
Select a transfer team.

New Team

Process owner
Select a process owner alias for this AWS Data Transfer Terminal reservation.

fl



Console: Create a reservation 2

aws [Search] [Alt+S] Oregon

Data Transfer Terminal > Create reservation

Data transfer specialists

Select one or more data transfer specialists for this reservation.

< 1 > [Settings]

- Personnel alias
 - fl

Data Transfer Terminal information

Facility

Select Data Transfer Terminal facility.

QTS. JFK Piscataway. NJ

Date and time

Select a start and end date along with a start and end hour. Reservations must have 24 hour notice, they may not exceed 6 hours, and may not be scheduled more than 6 months out.

January 1, 2025, 17:00:00 (UTC-8) — January 1, 2025, 22:00:00 (UTC-8)

Cancel Next



What to bring

Valid government-issued identification

Storage appliance

Peripherals, such as portable monitor, mouse, keyboards

100G LR4 optics



Onsite access

Review site-specific access instructions

Reservation and identity validation

Access granted

Escort to the Data Transfer Terminal room



What to expect



Safe, secure, empty room with desk & chair



Pair of fiber-optic cables

How to begin upload

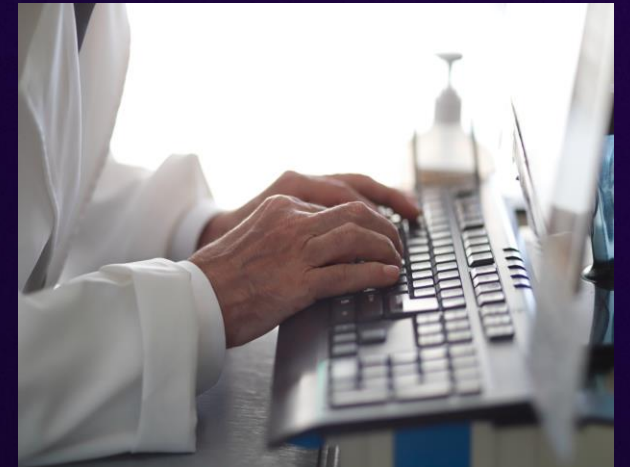
Review documentation to maximize throughput

Connect storage appliance to fiber-optic cables using 100G LR4 optics

Connect peripherals, such as portable monitor, mouse for accessing storage appliance

2 X Public IP addresses (including IPv6) allocated via DHCP

DNS resolution enabled



Authenticate credentials (such as Amazon S3) and begin upload

Benefits of AWS Data Transfer Terminal



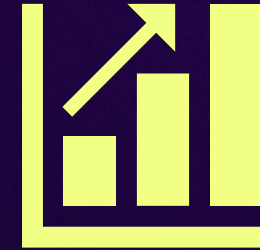
Faster data upload

Decreased time to market



Complete control

Decreased security risk
and data loss



Better data

Improved data quality

Customer testimonials





AWS Data Transfer Terminal empowers Rivian to expedite the development of its Autonomy feature roadmap. It enables us to process and train models on collected data approximately three times faster than current methods. Crucially, the data stays under Rivian's control, eliminating the need to ship SSDs. This capability is vital to our data collection initiatives as we expand internationally.



James Philbin

VP of Autonomy & AI, Rivian Automotive



At SUBARU, we operate test vehicles globally to collect driving environment data to enhance the quality and performance of our EyeSight system. Previously, we had to physically transport media containing massive amounts of test driving data to our office and upload it to the server before developers could access the data. By leveraging Data Transfer Terminal, we can now share data without physically transporting media to the office, providing developers with more options for accessing the data. Additionally, Data Transfer Terminal offers secure test data sharing at speeds approximately ten times faster than before. This has not only accelerated our development process but also enhanced data security. Furthermore, it has transformed the way data creators and developers work, enabling remote collaboration and contributing to our workplace innovation efforts.



Takashi Kanai
Deputy Chief of SUBARU Lab

Calls to action


1. Visit us on the re:Invent expo floor for a live demo; there are team members onsite to answer questions
2. Visit the [AWS Data Transfer Terminal](#) webpage
3. Review our documentation
4. Discuss with your account team



Thank you!

Camden Forgia

crforgia@amazon.com

 [linkedin.com/in/camdenforgia](https://www.linkedin.com/in/camdenforgia)

Gaurav Mudgal

mudgalgm@amazon.com

 [linkedin.com/in/mudgalgm](https://www.linkedin.com/in/mudgalgm)



Please complete the session survey in the mobile app