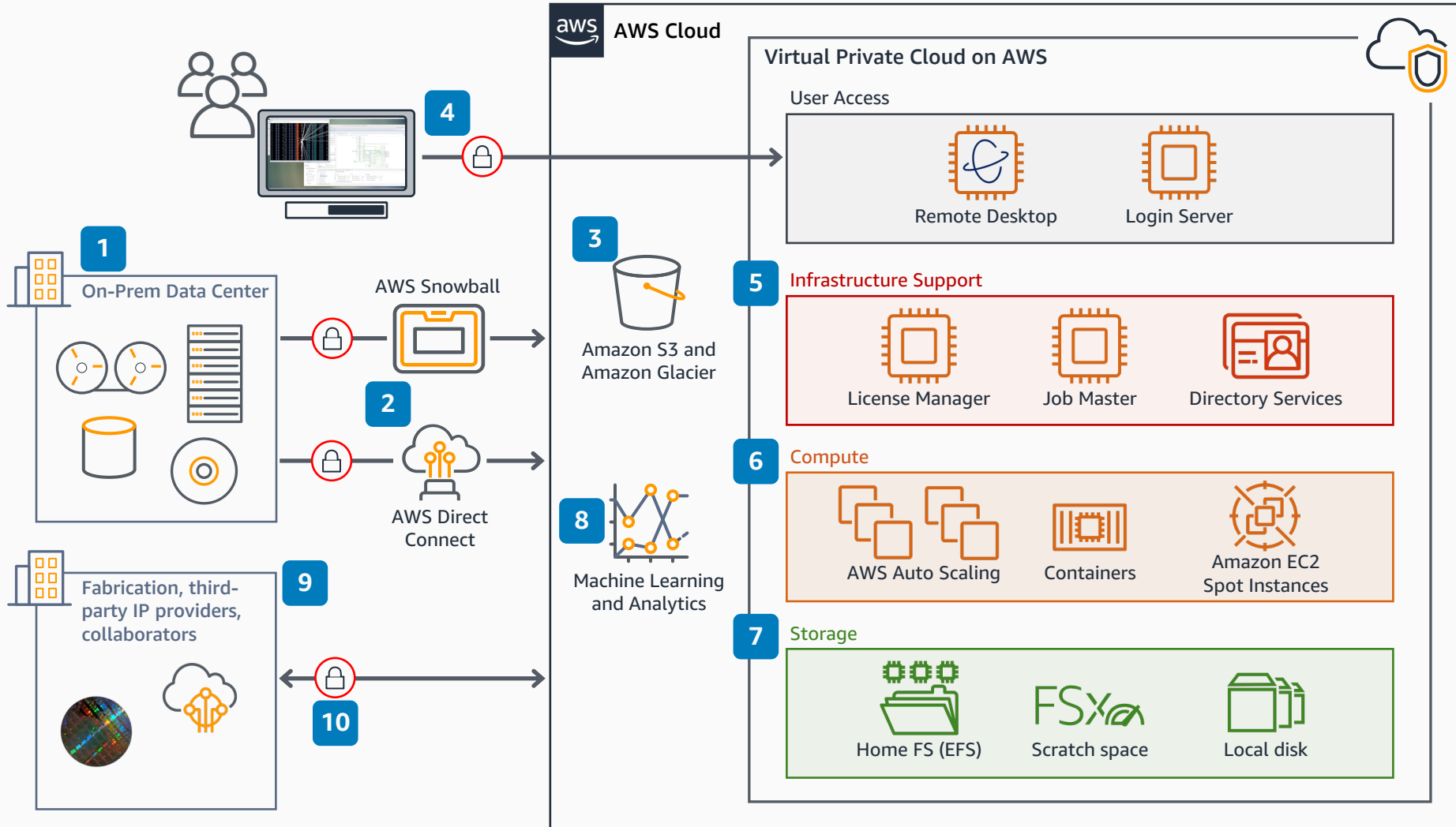


# Semiconductor and Electronics on AWS

## AWS services and data movement for semiconductor design

An architectural overview of AWS services and data movement options for semiconductor design workflows.



- 1 Determine what data is needed for proof of concept or test.
- 2 Transfer data into AWS via **AWS Snowball**, **AWS Direct Connect**, or using several other AWS services.
- 3 Transferred data is stored in **Amazon S3** buckets. You can access data stored in Amazon S3 from an **Amazon EC2** instance or nearly any AWS service.
- 4 Users access their environment through a remote desktop session or command line (ssh).
- 5 All of the infrastructure needed for semiconductor design workflows is available on AWS.
- 6 AWS compute is flexible and robust, more than capable of running semiconductor design workflows.
- 7 Store tools and job data on **Amazon EFS**, **Amazon FSx for Lustre**, and local disk. Optionally, move long-term data storage to Amazon S3.
- 8 Once your data is in AWS, you can leverage other services, e.g. data lakes, AI/ML, and analytics.
- 9 Isolating environments leads to enhanced security and limits third parties to only the data they need.
- 10 Encryption is everywhere and can be enabled with your keys.

