AWS Global Infrastructure

The aws global infrastructure is globally distributed hardware and datacenters that are physically networked together to act as one large resource for the end customers

AWS global infrastructure is made up of

1. 33 launched regions
2. 105 Availability Zones
3. 115 Direct Connections Locations
4. 600+ Points of presence
5. 38 Local Zones
6. 29 Wavelength Zones

1. Regions are the geographical areas

   a. each region consist of 3 or more availability zones

2. Availability Zones

   a. Availability Zones are physically separate and isolated from each other.

   b. AZs span one or more data centers and have direct, low-latency, high throughput, and redundant network connections between each other.

   c. An Availability Zone is represented by a region code followed by a letter identifier; for example, **us-east-1a.**

3. Local Zones

   AWS Local Zones place compute, storage, database, and other select AWS services closer to end-users.

   With AWS Local Zones, you can easily run highly demanding applications that require single-digit millisecond latencies to your end-users.

4. Wavelength Zones

   a. AWS Wavelength enables developers to build applications that deliver single-digit millisecond latencies to mobile devices and end-users.