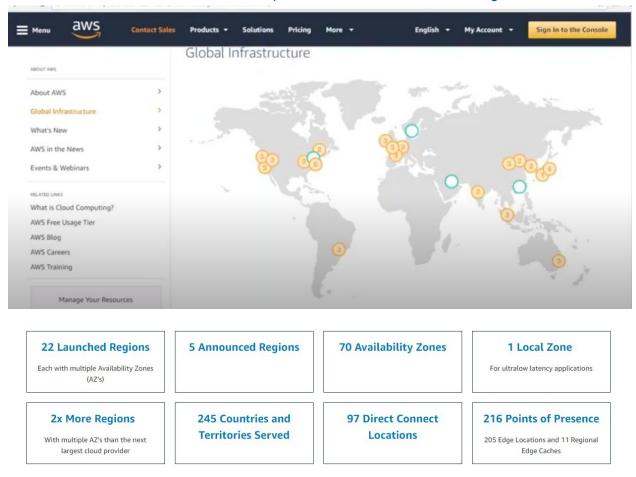
```
Series => Hardware / Functionality
Cost Estimation
Varying Compute Needs should be addressed
Fault Tolerant
High Availability
Hybrid Models
Performance
new 14 (3) 🗐 new 15 (3) 🗐 new 15 (3) 😭 new 17 (3) 😭 new 18 (3) 😭 new 20 (3) 😭 new 21 (3) 😭 new 22 (3)
 1 1. Compute
         Processor & RAM
 3 2. Storage
 5 3. Network
 7 Categories:
 8
     1. General
 9
      2. GPU
     3. Storage Optimized
10
11
     4. Memory Optimized
12
13 Series => Hardware / Functionality
15 Cost Estimation
```

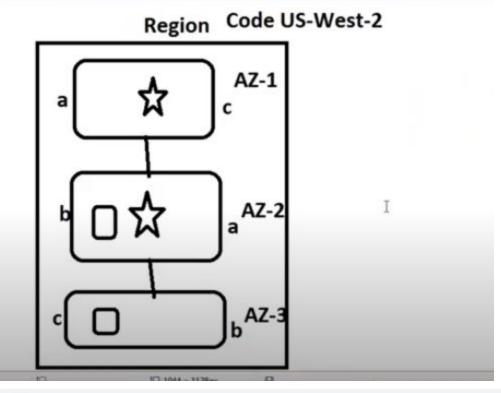
Global Infrastructure

https://aws.amazon.com/about-aws/global-infrastructure/



Region is geographical area Availability Zone is Data centers





Benefits

Security

Security at AWS starts with our core infrastructure. Custombuilt for the cloud and designed to meet the most stringent security requirements in the world, our infrastructure is monitored 24/7 to help ensure the confidentiality, integrity, comprised of multiple AZ's, which are fully isolated and availability of your data. All data flowing across the AWS global network that interconnects our datacenters and and achieve high availability, you can partition applications Regions is automatically encrypted at the physical layer before it leaves our secured facilities. You can build on the most secure global infrastructure, knowing you always control your data, including the ability to encrypt it, move it, and manage retention at any time.

Global Footprint

AWS has the largest global infrastructure footprint of any provider, and this footprint is constantly increasing at a

Availability

AWS delivers the highest network availability of any cloud provider, with 7x fewer down time hours than the next largest cloud provider.* Each region is fully isolated and partitions of our infrastructure. To better isolate any issues across multiple AZ's in the same region. AZ's are designed for physical redundancy and provide resilience, enabling uninterrupted performance, even in the event of power outages, Internet downtime, floods, and other natural disasters.

Scalability

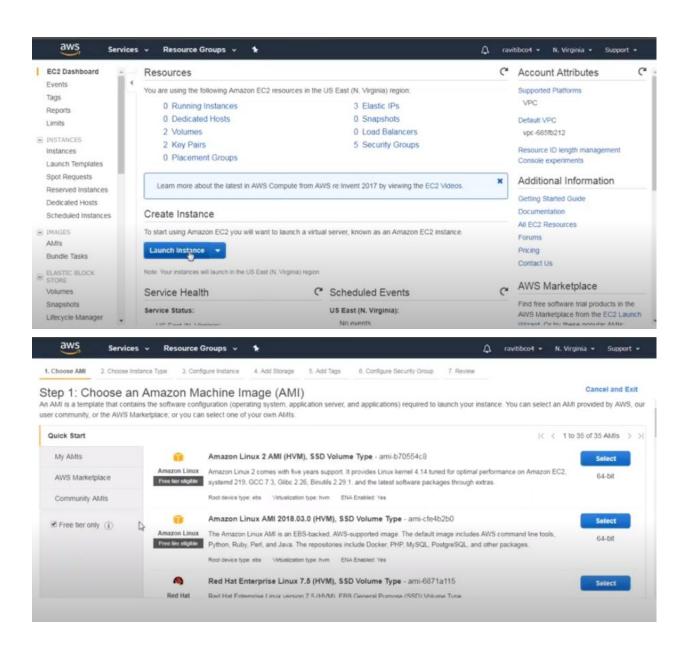
The AWS Global Infrastructure enables companies to be extremely flexible and take advantage of the conceptually

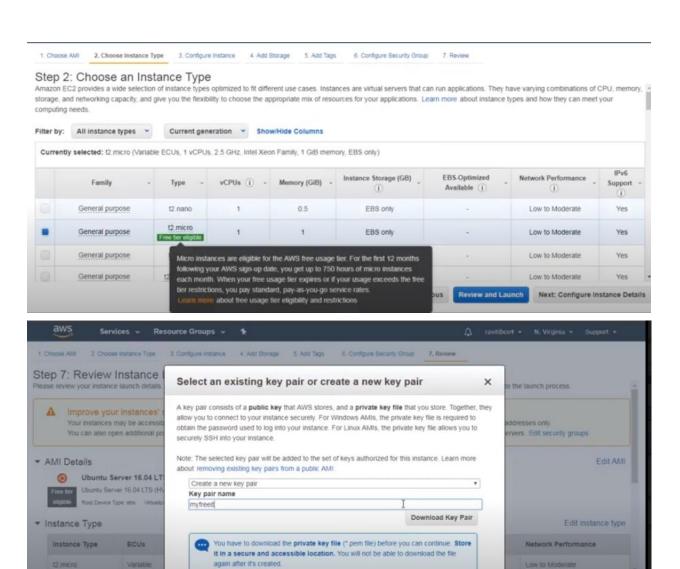
Performance

The AWS Global Infrastructure is built for performance. AWS Regions offer low latency, low packet loss, and high overall network quality. This is achieved with a fully redundant 100 GbE fiber network backbone, often providing many terabits of capacity between Regions. AWS Local Zones and AWS Wavelength, with our telco providers, provide performance for applications that require singledigit millisecond latencies by delivering AWS infrastructure and services closer to end-users and 5G connected devices. Whatever your application needs, you can quickly spin up resources as you need them, deploying hundreds or even thousands of servers in minutes.

Flexibility

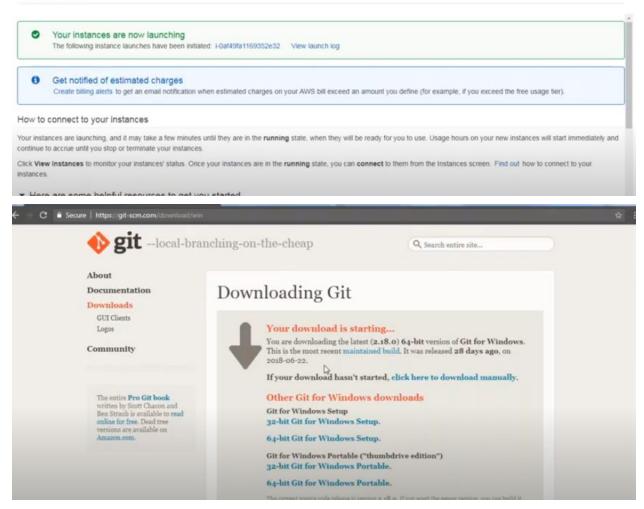
The AWS Global Infrastructure gives you the flexibility of choosing how and where you want to run your workloads,



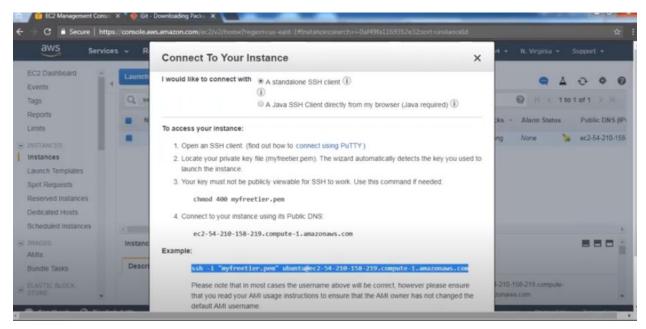


Cancel Previous

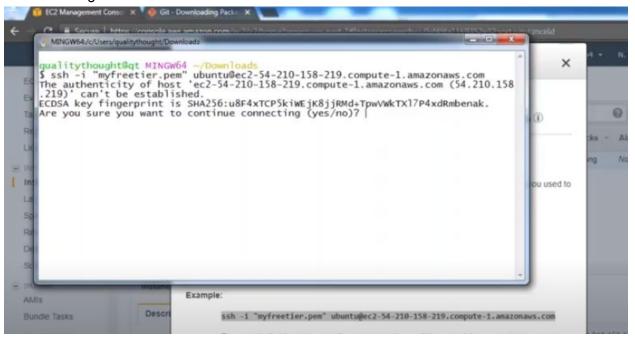
Launch Status



Ssh software download and install



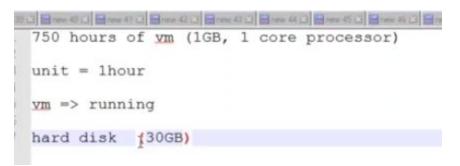
Connect using ssh software



Enter yes and login success

Region - geographical location with multiple datacenter which have far away from each other Az - each datacenter in a region most of region has 3 or more az.

Edge location is an additional infra from amazon to increase the connectivity or to connect to region faster it's kind of cdn network like youtube



https://aws.amazon.com/pricing/

