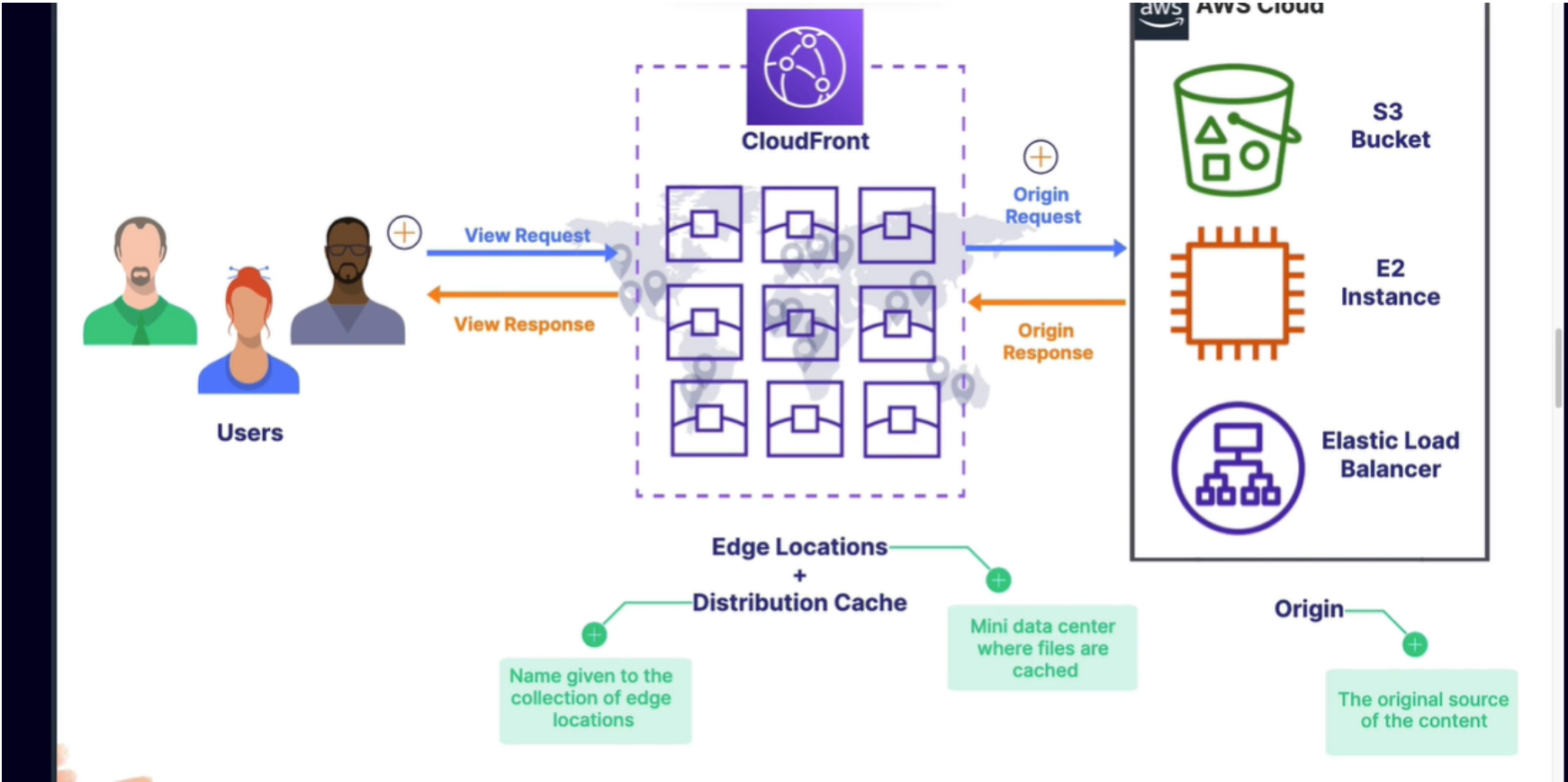# Understanding content delivery

Questions	Notes
the bigger picture	- what's content dilevry: A cdn is a mechanism to deliver content quickly and efficiently based on Geographic location - Latency; simply means the time it takes to respond to a request
Amazon CloudFront	- Cloudfront is a CDN that delivers data and apps globally with low latency - Makes content available globally or restricts it based on location - speeds up delivery of static dynamic web content - uses edge locations to cache content - if the content is already in the edge location , CloudFront delivers it immediately , if not Cloudfront retreives the files from the origin - cloudFront in the real world: - s3 static websites : is often used with s3 to deploy content globally - prevent attacks: Cloudfront can stop certain web attacks like DDOS. - IP-address blocking: GEO-restriction prevents users in certain countries from accessing content
Global Accelerator	- Global accelerator sends your users through the aws global network when accessing your content , speeding up delivery - Improves latency and availability of single region applications - sends traffic through the aws global network infrastructure 60% performance boost - automatically re-routes traffic to healthy available regional endpoints
S3 Transfer accesleration	- fast transfer of files over long distances - uses CloudFront's globally distributed edge locations - Customers the world can upload to a central bucket

Résumé

- CloudFront: don't forget Cloudfront allows for global distribution of content
- Global accelerator: remember Global accelerator provides low latency
- Security features: Don't forget cloudfront has security features like DDOS protection and geo-restriction
- S3 transfer accelaration: remember S3 transfer acceleration provides fast transfer of files over long distances