1. **How to attach a new EBS to existing ec2?**

To attach a new EBS (Elastic Block Store) volume to an existing EC2 instance in AWS, follow these steps:

1. Open the EC2 Dashboard in the AWS Management Console.
2. Select the EC2 instance to which you want to attach the EBS volume.
3. Click on the "Actions" button, then choose "Attach Volume" from the drop down menu.
4. In the "Attach Volume" dialog box, choose the EBS volume you want to attach from the "Volume" drop down menu.
5. In the "Device" field, specify the device name for the EBS volume. For example, /dev/sdf.

**6.** Click on the "Attach" button to attach the EBS volume to the EC2 instance.

Once attached, you may need to format and mount the EBS volume to make it usable. You can do this using the appropriate commands for your operating system. For example, on Linux, you can use the "mkfs" command to format the volume, and the "mount" command to mount it.

1. **What is Cloud front?**

Amazon Cloud Front is a content delivery network (CDN) offered by Amazon Web Services (AWS). It allows businesses to distribute their content, such as web pages, videos, images, and other static or dynamic content, to users around the world with low latency, high data transfer speeds, and high availability.

Cloud Front works by caching content in multiple edge locations worldwide, which are AWS data centres located in different geographic regions. When a user requests content, Cloud Front routes the request to the edge location closest to the user, delivering the content with faster response times and reduced data transfer costs. Cloud. Front can also be used to securely deliver dynamic content generated by web applications, APIs, and other backend systems.

CloudFront integrates with other AWS services, such as Amazon S3, EC2, Lambda, and Route 53, to provide a fully-managed and scalable CDN solution that can be easily configured and customized through the AWS Management Console or API.

1. **Implement Cloud front to s3 bucket and configure Cloud front domain to R53?**

**Create an S3 bucket:**

**Create an Amazon CloudFront distribution:**

Next, go to the Amazon CloudFront console and click on "Create Distribution." Select "Web" as the delivery method, and in the "Origin Domain Name" field, select your S3 bucket from the dropdown list.

**Configure your CloudFront distribution settings:**

You can configure various settings for your CloudFront distribution, such as the origin access identity, cache behaviour, SSL certificate, and more. Ensure that your settings match your requirements.

**Create a CNAME record in Route 53:**

Now, go to the Amazon Route 53 console and create a CNAME record for your CloudFront domain. To do this, select the hosted zone for your domain, click on "Create Record Set," and enter your CloudFront domain as the alias target.

**Update the DNS settings for your domain:**

Update the DNS settings for your domain to point to the Route 53 nameservers. To do this, go to your domain registrar and update the nameservers to the Route 53 nameservers.

**Test your setup:**

Wait for the DNS changes to propagate (which can take up to 24 hours), and then test your setup by accessing your content via your CloudFront domain name.