**CDNS for Images Optimize**

**Parsly compelted(1.0 beta Version)**

1. Image Optimizers reduce images file size so that images are optimized for the internet and can load quickly
2. And cdns are located closer to end users than origin server are reducing latency and speeding up load times for images
3. Google encourage developers to compress images when possible
4. By using the cdns for the images in our Projects, we can reduce the size of the bundle size 40% ( becoz most of project have n no of images which takes much space)
5. My using the cdns we can easily pass the parameters for the cdn server, like width and height and soon and server will response with that images for us ( here main points is everthing is done by server only, we just need to use it in our project)
6. Cdns are very important when we have images of huge big size, which increase the bundle size, so by the help of cdn , we can decrese the size of the images
7. Performance of our project increase
8. When we use the cdns images then cdn server will automatically detect the device width and send the images, if its in mobile then mobile optismised images is send , if user in laptop then laptop based images is send and when user is in the desktop then desktop based images is sended by the cdn these is most important feature of the cdn
9. if we don’t use cdns then browser need to parse the images then time will be consumed by the browser in parsing the images, then our website will load slowly
10. cdns server will detect the user device and soon and use these information for using the best images that suts for the user devices and implemenet cache in the browser header also
11. cdns server has a great feature that, they use the user https request for determine the user device config and use these info for generating the best images for user
12. User request the images, according the phone (old or new phone) or browser (edge or chrrome) , the server will send the images( height and width are auto-matically detected and adjusted)

Suppose cdn server for edge broswer may send the jpg format and for the chrome it may send wep format, so according the user devices the server will reponse and send best suitable images for that device or broswer

NOTE: server will make decision by itself

1. Website that offer cdns for images optimsation

a)imagekit.io( to know more about these website plz website it once)

b) Akmai

c) ImageEngine(use WURFL libarary to detect the user-device config)

d) cloudfalre

e)Fastly ID

f)imagix

g)CloudImage

h)ImageKit

i)Cloudinary

1. These above some cdn provider offers Device detection, clients-Hints,save-user-data and etc
2. If user is in 2g,3g,4g network then cdn server will detech the network then send the images to user(compressed images if user is in 3g,2g network), and the server will detech everything, by these behiour(2g or 3g or 4g), user can save the internet data balance, which is good sign for user experience
3. If user is in 8g ram or 1gm ram and according to the device width, the cdn server will use these infromation for sending the images, becoz if user has 1g ram and sending high hd images its not a good way, so according to user device the cdn will send the images
4. Most of the images doesn’t support the svg format ( imp point to note), if we send then cdn server will just egnore and send back without any compress
5. Cloudnary cdn server is slower and cpu intensive so its not recommeed to us
6. When we use cdn for images then there is no need of writing any code by us manually, evertthing is taken care by the cdn server
7. Apple-phones has something build in it which block the user infromation(like user device config) from being sended to cdn server( important point to note)
8. Cdns server offers

a) implements cache on user browser

b) image compression

c) reformat

d) re-size

1. Most of the all the cdns server use the webp, apng,jpg000 0 fomat

**THESE ARE THE THINGS WHICH I CAME TO KNOW**

1. When we test our app in the lighthousse we mostly get erros regrading the images like size, chache and https,so most of those errors 99% will be not comes if we use cdns for images
2. code manam m manaual ga rayalisana vasaram ledu
3. seo ki baga help aethadi for good ranking
4. speed ga rending unthadi
5. if user is in 2g,3g,4g acoording to the user device, he get the conetent from the hosting platform
6. same rule for videos format and gifs formats
7. accordingg to band width of user(internet speed), he may dwd low,high compresss images