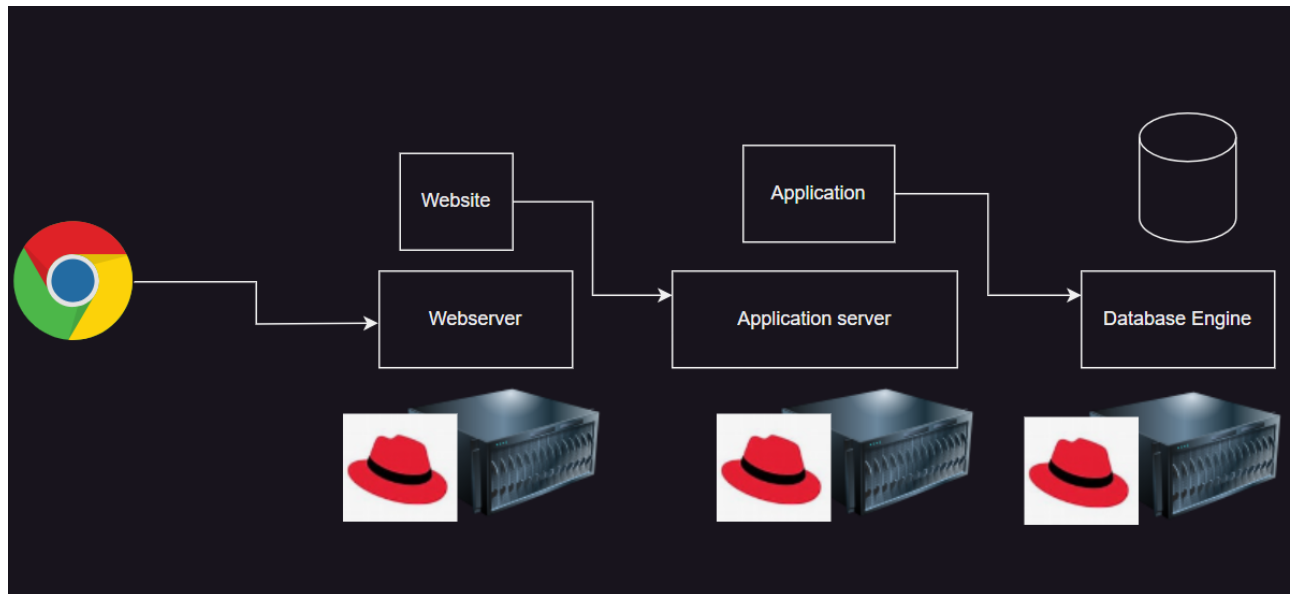


Orientation contd

Layered Architecture of application

- Overview



- To access the application from the same network
 - We can use internal ip address (private)
 - Any ip address in the following ranges is private
 - 192.168.0.0 to 192.168.255.255
 - 172.16.0.0 to 172.31.255.255
 - 10.0.0.0 to 10.255.255.255
 - We can map names to ipaddress using internal DNS servers
- To access the application world wide
 - We generally use names (bookmyshow.com, swiggy.com etc) which are referred as Domain Names
 - To do this we need to buy a domain from domain registrar [Refer Here](#)
 - When we purchase the domain with any registrar we would be getting name as well as name server entries
 - Servers which have name to ip address mapping are called as nameservers.
 - DNS entries (record types) [Refer Here](#)

Encryption Mechanisms

- Symmetric Encryption:
 - For encryption and decryption we use same key
 - popular algorithms:
 - DES
 - AES
- Asymmetric Encryption:
 - A Key pair is generated which has public key and private key

- Data encrypted with one key can only be decrypted by other key.
- Popular algorithms:
 - RSA
 - ECDSA

Hashing

- Hashing mechanisms are used to check the integrity, there are algorithms such as md5, sha1, sha256 etc..