### How to Point Domain and Host ReactJS Project using Apache Web Server VPS Hosting

* To Access Remote Server via SSH

Syntax:- ssh -p PORT USERNAME@HOSTIP

Example:- ssh -p 22 raj@216.32.44.12

#### **Note:- Run Below Commands on Your Remote Server Linux Machine or VPS, Not on Your Local Windows Machine**

* Verify that all required software are installed

apache2 -v

node -v

npm -v

git --version

* Install Apache

sudo apt install apache2

* Install Node and npm

curl -fsSL https://deb.nodesource.com/setup\_18.x | sudo -E bash - &&\

sudo apt-get install -y nodejs

* Verify Apache2 is Active and Running

sudo service apache2 status

* Go to Your Project Directory

Syntax:- cd /var/www/project\_folder\_name

Example:- cd /var/www/DoinDenimz

* Install Dependencies

npm install

* Create Production Build

npm run build

// OR

npm run export

* Create Virtual Host File

Suntax: sudo nano /etc/apache2/sites-available/your\_domain.conf

Example: sudo nano /etc/apache2/sites-available/doindenimz.conf

* Add Following Code in Virtual Host File

<VirtualHost \*:80>

    ServerName doindenimz.com

    DocumentRoot /var/www/DoinDenimz/dist

    <Directory /var/www/DoinDenimz/dist>

        Options -Indexes +FollowSymLinks

        AllowOverride All

        Require all granted

    </Directory>

    ErrorLog ${APACHE\_LOG\_DIR}/error.log

    CustomLog ${APACHE\_LOG\_DIR}/access.log combined

RewriteEngine on

RewriteCond %{SERVER\_NAME} =doindenimz.com

RewriteRule ^ https://%{SERVER\_NAME}%{REQUEST\_URI} [END,NE,R=permanent]

</VirtualHost>

* Enable Virtual Host

cd /etc/apache2/sites-available/

sudo a2ensite doindenimz.conf

* Check Configuration is correct or not

sudo apache2ctl configtest

* Restart Apache2

sudo service apache2 restart

### How to Enable HTTPS in Your Domain Hosted on Linux Remote Server or VPS

#### Let's Encrypt is a non-profit certificate authority run by Internet Security Research Group that provides X.509 certificates for Transport Layer Security encryption at no charge.

* To Access Remote Server via SSH

Syntax:- ssh -p PORT USERNAME@HOSTIP

Example:- ssh -p 22 root@216.32.44.12

* Install Certbot and python3-certbot-apache

sudo apt install certbot python3-certbot-apache

- Certbot is a free, open source software tool for automatically using Let’s Encrypt certificates on manually-administrated websites to enable HTTPS.

- python3-certbot-apache is a Apache plugin for Certbot.

* Verify Web Server Ports are Open and Allowed through Firewall

ufw status verbose

* Obtain an SSL certificate

sudo certbot --apache

* Check Status of Certbot

sudo systemctl status certbot.timer

* Dry Run SSL Renewal

sudo certbot renew --dry-run