Detailed Explanation of Commands — investordeal.in Deployment

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sudo apt update / sudo apt upgrade

- apt update: Refreshes the package lists from repositories.
- apt upgrade: Upgrades installed packages to newer versions.

In logs: 42 packages were upgradable. Some packages deferred due to phasing. Kernel upgraded (6.8.0-79) but running

sudo apt-get install -y nodejs

Checks if Node.js is installed. Node.js 18.19.1 was already the latest version.

sudo npm install -g pm2

```
Installs PM2 globally. PM2 is a process manager for Node.js apps.

Commands:

pm2 start app.js --name myapp

pm2 save

pm2 startup
```

sudo apt install git -y

Ensures Git is installed. Git was already the newest version (2.43).

sudo apt install nginx -y

Ensures Nginx web server is installed. Already installed (1.24).

git clone https://github.com/HousDev/Dist.git

Clones your website repository into /var/www/html/Dist.

This is the folder nginx will serve from.

sudo nano /etc/nginx/sites-available/investordeal.in

```
Edits the nginx site configuration file for your domain.
```

Config contained:

server_name investordeal.in www.investordeal.in;

root /var/www/html/Dist;

index index.html;

try_files \$uri \$uri/ =404;

sudo In -s /etc/nginx/sites-available/investordeal.in /etc/nginx/sites-enabled/

Creates a symbolic link to enable the site in nginx.

If 'File exists' appears, symlink already exists.

sudo nginx -t

Tests nginx configuration syntax.

Warnings seen: conflicting server_name — caused by multiple server blocks defining the same domain.

Eventually fixed by cleaning duplicate configs.

sudo systemctl restart nginx

Restarts nginx service to apply configuration changes.

sudo systemctl restart nginx (cont.)

sudo ufw allow OpenSSH / sudo ufw allow 'Nginx Full' / sudo ufw enable

Configures firewall (UFW):

- Allows SSH access (so you don't lock yourself out).
- Allows HTTP (80) and HTTPS (443) traffic.
- Enables firewall at boot.

sudo chown -R www-data:www-data/var/www/html/Dist && sudo chmod -R 755 /var/www/html/

Sets file permissions:

- Ownership set to www-data (nginx user).
- Directories readable/executable, files readable.

Without this, nginx may throw '403 forbidden'.

sudo tail -f /var/log/nginx/error.log

Views nginx error log in real-time.

Errors seen: 'directory index of /var/www/html/Dist/ is forbidden' — means index.html missing or permissions issue.

sudo Isof -i:80 / sudo netstat -tulnp / sudo fuser 80/tcp

Used to check which processes are listening on port 80.

Confirmed nginx was listening. Ensures no Apache conflict.

sudo systemctl stop nginx / sudo pkill -9 nginx / sudo systemctl start nginx

Stops nginx, kills leftover processes, and starts clean.

Fixes 'bind() to 0.0.0.0:80 failed' errors.

dig investordeal.in / dig www.investordeal.in +short

DNS lookup for domain records.

Result: Two IPs: 84.32.84.32 and 31.97.202.89. Let's Encrypt may validate against either IP, causing failures if one is r

curl ifconfig.me / curl -4 ifconfig.me / curl -6 ifconfig.me

Shows public IP of this server.

IPv4: 31.97.202.89

IPv6: 2a02:4780:12:4398::1

sudo apt install certbot python3-certbot-nginx -y

Installs Certbot and nginx plugin for automatic SSL setup.

sudo certbot --nginx -d investordeal.in -d www.investordeal.in

Requests Let's Encrypt SSL certificates.

Initially failed due to validation at wrong IP (84.32.84.32).

Later succeeded, installed certs into /etc/letsencrypt/live/investordeal.in/.

sudo systemctl status nginx

Shows nginx service status, confirms it is active and running.