

# Investordeal Server — Command Session Notes

Condensed notes and remediation steps

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1) `sudo apt update / sudo apt upgrade` - Refreshes package lists and upgrades packages. - Notes: Some packages deferred due to phasing (coreutils, openssh-\*). 'cloud-init' kept back. - Pending kernel upgrade to 6.8.0-79-generic; running kernel 6.8.0-63-generic. Reboot required to use new kernel.  
Actions: `sudo apt autoremove sudo reboot`

2) `sudo apt-get install -y nodejs` - nodejs already at 18.19.1.

3) `sudo npm install -g pm2` - pm2 installed. Useful commands: `pm2 start /path/to/app --name myapp pm2 save pm2 startup`

4) `sudo apt install git -y` - git already newest version.

5) `sudo apt install nginx -y` - nginx already newest. - Warnings observed: conflicting server\_name, bind() failed earlier. - Error: directory index of "/var/www/html/Dist/" is forbidden -> 403. Causes: no index.html, permission issue, or path mismatch.  
Fixes: `ls -la /var/www/html/Dist sudo chown -R www-data:www-data /var/www/html/Dist sudo chmod -R 755 /var/www/html/Dist` # For SPA: # location / { try\_files \$uri \$uri/ /index.html; }

6) Git clone & file locations - Dist cloned to /var/www/Dist. Ensure nginx root matches exact path and case (Linux is case-sensitive).

7) Nginx site config - Example server block used: `server { listen 80; server_name investordeal.in www.investordeal.in; root /var/www/html/Dist; index index.html; location / { try_files $uri $uri/ =404; } }` - For SPA use try\_files fallback to /index.html.

8) `ln -s symlink errors` - 'File exists' means symlink already created. To recreate: `sudo rm /etc/nginx/sites-enabled/investordeal.in sudo ln -s /etc/nginx/sites-available/investordeal.in /etc/nginx/sites-enabled/`

9) `nginx -t` and `systemctl restart nginx` - Use `sudo nginx -t` then `sudo systemctl reload nginx`

10) `tail -f /var/log/nginx/error.log` - Observed bind()/address in use earlier; later resolved. - Repeated 403 directory index forbidden.

11) `lsof/netstat/fuser on :80` - Use these to confirm what's listening on port 80. Confirmed nginx PIDs listening.

12) `stop/kill/start nginx` - Used `sudo systemctl stop nginx` and `pkill -9 nginx` then started service cleanly.

13) `curl ifconfig.me` - IPv4: 31.97.202.89 - IPv6: 2a02:4780:12:4398::1

14) `dig investordeal.in` - DNS returns two IPs: 84.32.84.32 and 31.97.202.89 - Important: Let's Encrypt may validate via either IP. If only one IP serves correctly, validation can fail.

15) certbot installation - certbot and python3-certbot-nginx already installed.

16) `certbot --nginx -d investordeal.in -d www.investordeal.in` - Initial attempts failed: unauthorized (Invalid response 500) because CA validated via 84.32.84.32 which returned 500. - Final attempt succeeded; certificate created at /etc/letsencrypt/live/investordeal.in/ - Suggestion: Ensure all A/AAAA records point to a server that serves challenge, or use DNS-01 challenge.

17) Useful commands `sudo nginx -t sudo systemctl reload nginx sudo tail -n 200 /var/log/nginx/error.log ls -la /var/www/html/Dist sudo chown -R www-data:www-data /var/www/html/Dist sudo find /var/www/html/Dist -type d -exec chmod 755 {} \;` `sudo find /var/www/html/Dist -type f -exec chmod 644 {} \;` `test -f /var/www/html/Dist/index.html && echo "index ok" || echo "no index" sudo ss -tulnp | grep ':80|:443' sudo ls -l /etc/letsencrypt/live/investordeal.in openssl s_client -connect investordeal.in:443 -showcerts`

18) Specific fixes summary - 403: ensure index.html present, correct path & permissions, use SPA fallback. - conflicting server\_name: search for duplicate server blocks using grep. - Let's Encrypt fail: remove/fix extra A records or ensure other IP serves challenge.

19) Quick checklist # ensure correct files in place `ls -la /var/www/html/Dist`  
# set ownership & permissions `sudo chown -R www-data:www-data /var/www/html/Dist sudo find /var/www/html/Dist -type d -exec chmod 755 {} \;` `sudo find /var/www/html/Dist -type f -exec chmod 644 {} \;`  
# edit nginx config for SPA: # location / { try\_files \$uri \$uri/ /index.html; }  
`sudo nginx -t sudo systemctl reload nginx sudo certbot renew --dry-run`