***Deploy .Net core to Linux OS***

1. If first time clone your git repository by run this command
   1. git clone {git url }
   2. then insert user & pass
2. If cloned previous go to git folder by run this command
   1. cd /root/nsaferflights
   2. git pull origin {branch name} ex dev
3. go to web api folder by run this cmd
   1. cd /root/nsaferflights/Code/WebAPI
4. do the following
   1. change connection string in appsettings.json file.
   2. Update DB if need (dotnet ef database update)
   3. build app (dotnet build)
   4. publish app ( dotnet publish –output {puplish folder url} /var/www/nsaferflights )
   5. if you faced any error in cloning files because files accessed by other service or can’t replace stop kestrel service then republish (sudo systemctl stop kestrel-nsaferflights.service)
5. if first time create kestrel service by doing the following
   1. run this command sudo nano /etc/systemd/system/{kestrel-NsaferFlights.service}
   2. terminal will open editor then past the below

|  |
| --- |
| [Unit]  Description=NsaferFlightsAPI  [Service]  WorkingDirectory=/var/www/nsaferFlights  ExecStart=/usr/bin/dotnet /var/www/nsaferFlights/WebAPI.dll  Restart=always  # Restart service after 10 seconds if the dotnet service crashes:  RestartSec=10  KillSignal=SIGINT  SyslogIdentifier=dotnet-example  User=www-data  Environment=ASPNETCORE\_ENVIRONMENT=Production  Environment=DOTNET\_PRINT\_TELEMETRY\_MESSAGE=false  [Install]  WantedBy=multi-user.target |

* 1. click ctrl + x to save and exit
  2. enable kestrel service (sudo systemctl enable kestrel-ds.service)
  3. start kestrel service (sudo systemctl start kestrel-ds.service)
  4. check kestrel service status (sudo systemctl status kestrel-ds.service) must be active.
  5. If status not active or get error run this command to know the error (sudo journalctl -fu kestrel-ds.service)

1. If not first time restart kestrel service (sudo systemctl restart kestrel-ds.service)
2. If first time add the below to reverse app url in apache
   1. go to /etc/apache2/sites-available
   2. open server config file ex (mini-erp.io.conf)
   3. add the below to reverse app url

|  |
| --- |
| Alias /NsaferFlights "/var/www/nsaferFlights"  ServerAdmin webmaster@localhost  ProxyPreserveHost On  ProxyPass "/NsaferFlights/" http://0.0.0.0:7011/  ProxyPassReverse "/NsaferFlights/" <http://0.0.0.0:7011/>  ErrorLog /var/www/logs/nsaferFlights-error.log |

* 1. change app config with your config.
  2. Make sure kestrel port is same in apache config file and not used. (ex: 7011)

1. Restart apache (sudo service apache2 restart)