Software - LM Deployment Checklist

Networking HW

External Internet Connection / Static IP

Port Forwarding (list of ports - SSH, Team Viewer, VNC, 80/8000/8100, 8900-8999, ONVIF Ports)

Check Internet Connectivity (bitbucket, google, ...)

WiFi Router

SSID Name / Security ("LM-WiFi")
USR, MiniPC MAC Address to IP Mapping
Static IP Address / DNS / GW
Port Forwarding
Testing

Ethernet Switch

Connect WiFi Router Connect MiniPC

USR RS485 WiFi Devices

Connect to LM-WiFi

ONVIF Cameras

Tapo App API Access

Energy Meter

SELEC EM2M-1P-C-100A

Nanowarehouse HW

Insert Two Test Trays - 0 kg, 15 kg

MiniPC

Connect Keyboard, Mouse, Display, Display Mount Connect PLC Programming Cable to USB Connect to Ethernet Switch

OS Setup

Dual Boot OS Setup: Windows & Ubuntu
Disable auto patches for Ubuntu and Windows)
Partitions (256GB each)
System Name
Security / Networking - IP Address/MAC

Setup Remote Access (VNC, AnyDesk - in both windows and linux)

SW Install

PLC SW Install PY Test Scripts

Basic Testing

Connectivity to USRs, MiniPC, Cloud

Modbus tests: modbus scan, modbus poll

Run PLC modbus echo script

Test Motors: horizontal, vertical, push/pull, swivel

Calibration

1) Run Auto Calibration Script: Calibration/Reclaibration script to build/update model

2) Run Calibration Validation & Adjustment Script: Test Script to check calibration across all slots using PLC slot test command

Robot Manager

Install Supervisor SW

Install Robot Manager API

Add/Remove Trays into system Submit Tray Retrieve Request Submit Tray Release Request Cancel Tray Retrieve Request Get Tray Status

Admin App

Login

Status / Info Robot

Add/remove tray

Retrieve / Release / Cancel Tray Request

Scan Slot to see Tray info

Scan Tray to see Slot info

List of Pending Requests

List of Completed Requests

DevOps

Setup System Backup Script

Hardware - LM Deployment Checklist

Need to check loctite is applied or not for the required screws

Have to check the vertical system level

Have to check the push-pull level

Need to check that the lubrication is done in the required places