

Objective

Build and deploy JS Stack application on Windows 2012 server edition in offline mode. Set Up a production environment on manufacturing site to leverage digitization in day to day process management

Scope

- Assess requirements and provide architectural design
- Automate deploy process on windows server edition in offline mode
- Scheduled automated backups
- Document manual deployment process, administration and troubleshooting guide
- Setup environments - Dev, Test and Demo

Challenges

- Manufacturing plant had no internet access
- Educating non-IT users on application administration
- Assessing Wireless coverage at the manufacturing plant

Technology

- Windows 2012 server edition
- NodeJS
- Windows batch programming
- MongoDB
- Git
- JIRA

Benefits

- Complete Data Digitization- optimized processes which removed the overhead of managing paperwork for daily work status.
- With automation administration become user friendly for non-IT users
- Daily automated scheduled backup
- Provided resilient server setup in case of abnormal power shutdown

Key features

- Application can be hosted offline
- Automated scheduled backups
- High performance and availability
- Almost all open source tools have been used. So in future, if required solution can be moved to Linux.