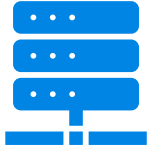




4IR Use Cases

Common Use Cases



Enterprise Systems

High security multi-site enterprise deployments
Distributed asset (telemetry) deployments
Asset modeling, management and integration



Digital Transformation Projects

Data ingestion for analytics and AI
MES functions (OEE, SPC, Track/Trace, ERP Integration)
Integration with other cloud native services



Simplified Infrastructure

Low up-front capital, scalable systems
Ongoing management covering skills gaps
Super fast time to value

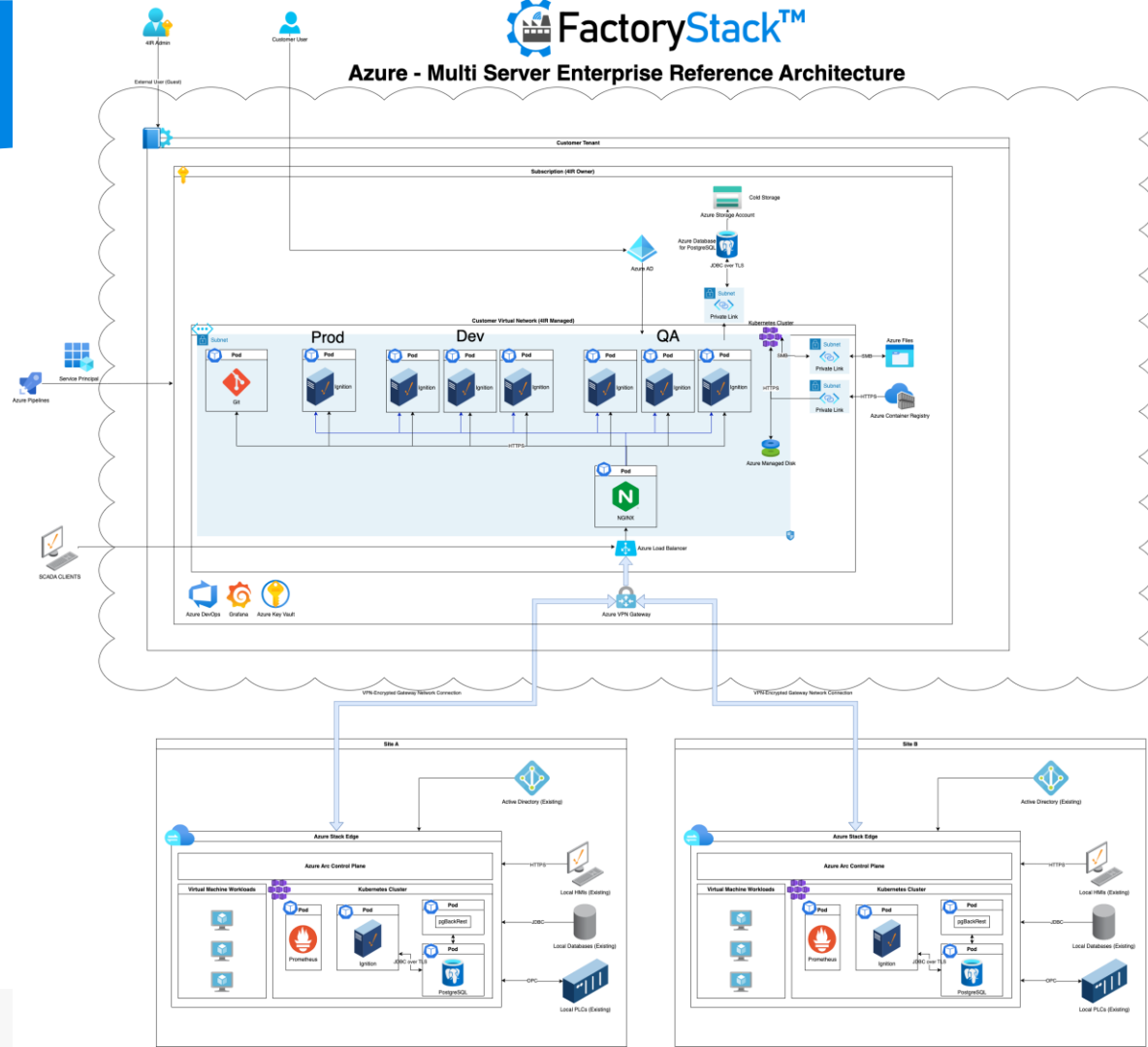
Use Case 1

Managed Enterprise Architecture

- Operation of 2 facilities – on prem
- Existing system – Sepasoft OEE, SPC, T&T, Bus Conn.
- Dev/Test systems all in cloud
- Enterprise Production system in cloud (including EAM)
- Customer's tenant

Justification

- Reduced in labor/in house skills needed
- Increase in capability of system (DevOps)
- Increased security posture (integrated authentication, containers vs vms, continuous updates/monitoring)
- 3 year payback on direct costs (server procurement/support)



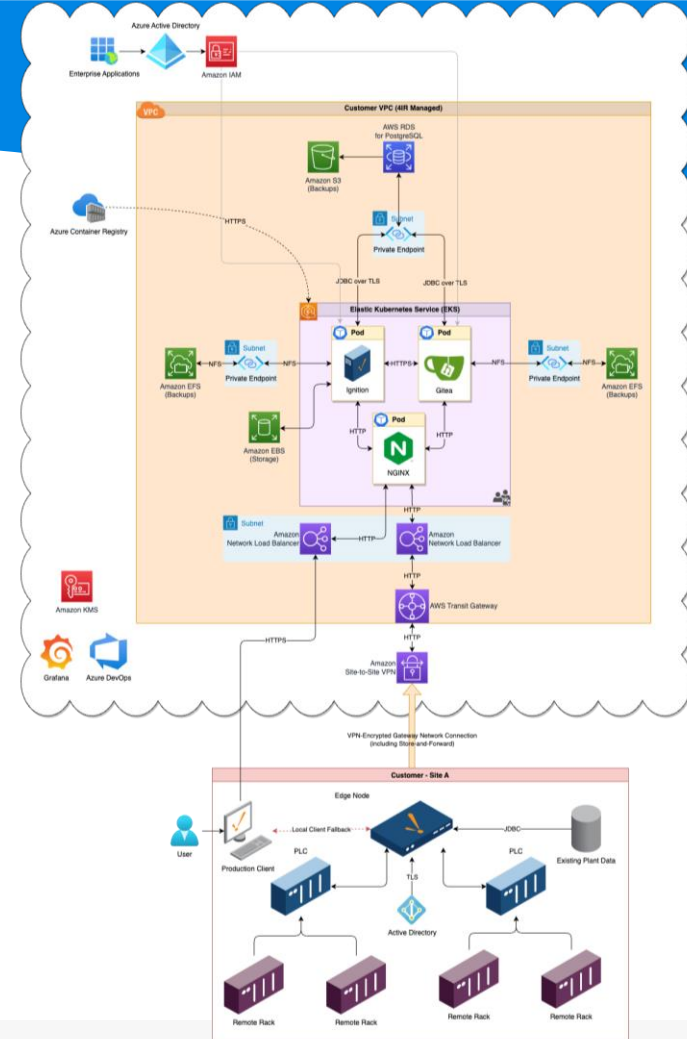
Use Case 2

Simple Cloud Deployment

- Single facility – plan to grow to more
- Data collection from several systems (vision cameras, labelers, scanners, packaging equipment)
- Hosted by 4IR – Proof of concept

Justification

- Executives need data on mobile devices/outside of plant
- Needed to prove technology quickly before investing across network
- System deployed (including application) in less than 30 days



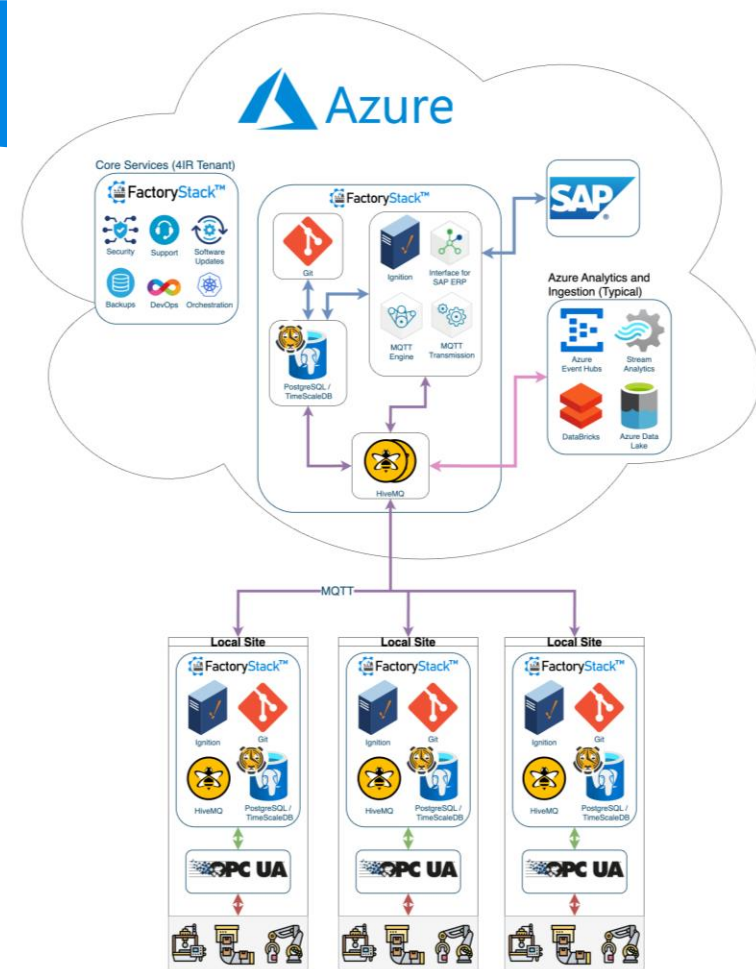
Use Case 3

Enterprise Cloud/Hybrid Deployment

- Existing facilities with Ignition
- OEE, Asset Management application (new)
- Single Server in cloud – integrating with Microsoft Analytics tools
- Redundant HiveMQ Broker with connectors
- Customer's tenant

Justification

- Simplifies UNS deployment, reduces internal IT and allows plant resources to focus on the applications.
- Standardizes deployment across many sites
- Decreased total cost of deployment and ownership
- Scalable for future growth



Thank You

CONTACT US AT:



James Burnand



James.Burnand@4ir.cloud



866-372-6556

