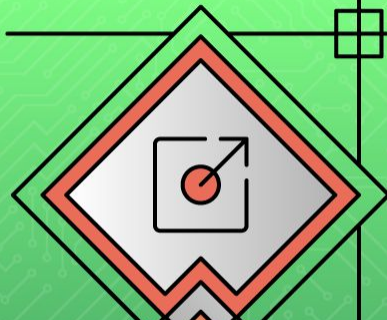
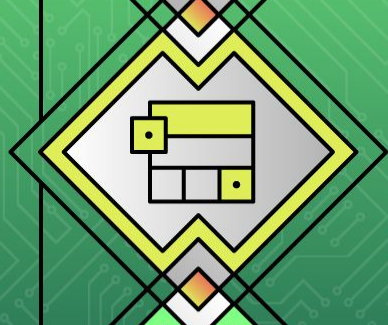
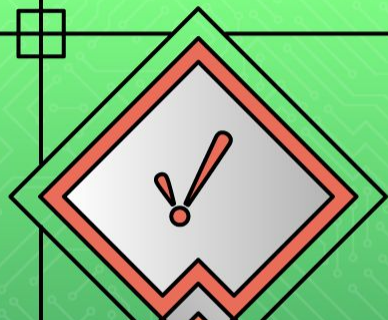
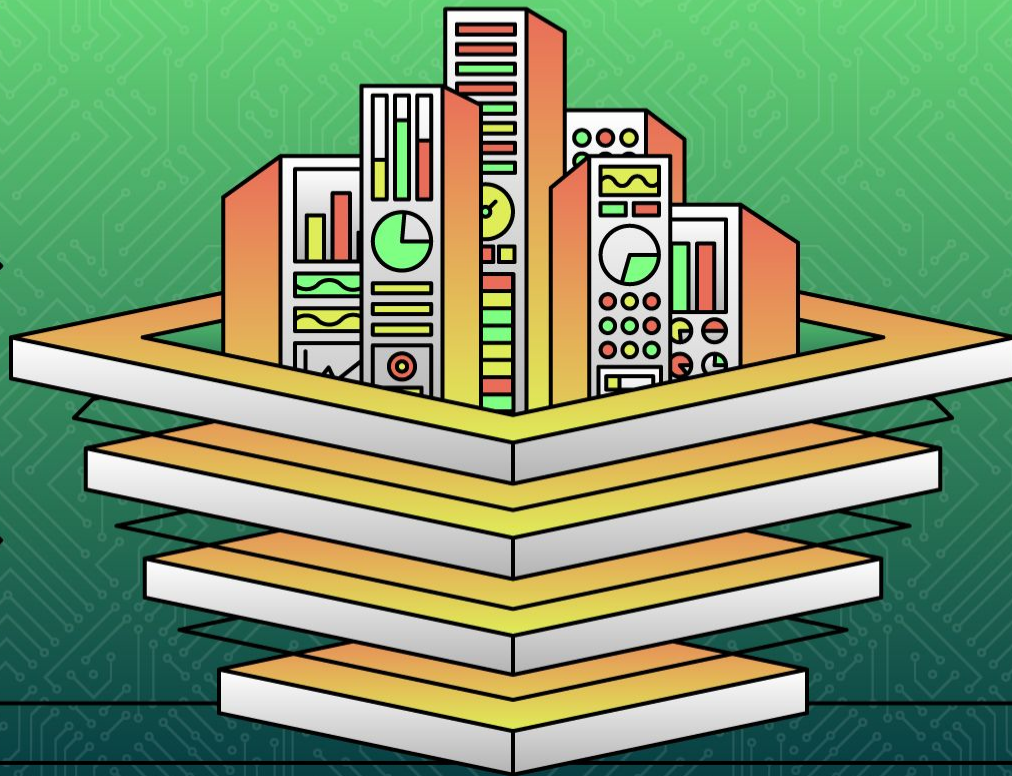


Architecting Success With Scalable System Design



Today's Speakers



Chase Dorsey

Sales Engineer

Inductive Automation



Brad Fischer

Sales Engineer

Inductive Automation



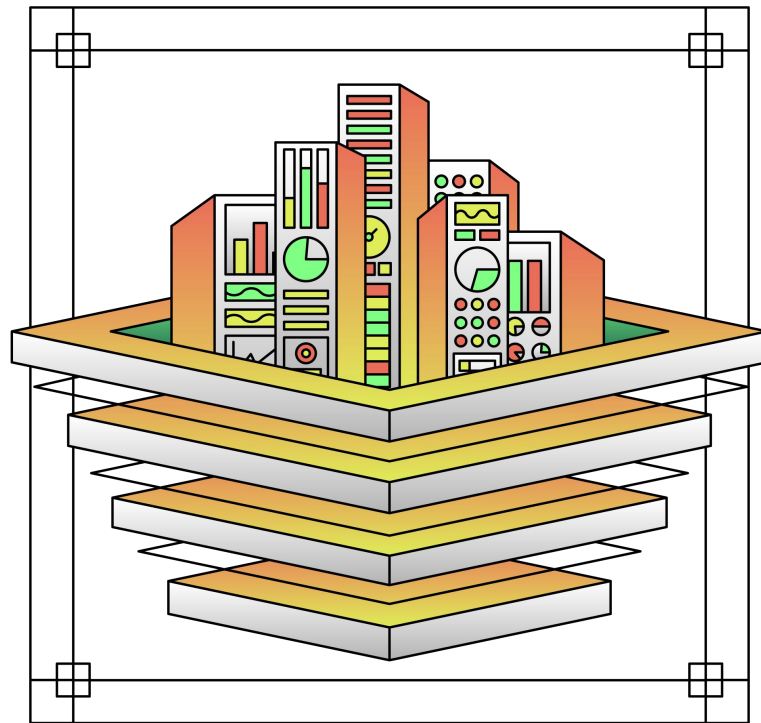
Tom Goetz

Sales Engineer

Inductive Automation

Agenda

- Introduction to Ignition and IA
- Standard Ignition Architectures
 - Standard
 - Scale out
 - Enterprise
 - Cloud
- Architecture Builder Feature Set
 - Comparing
 - Modifying
 - BOM
- Q&A



About Inductive Automation

- We make software for problem solvers
- 300+ employees in the US & Australia
- 57% of the Fortune 100 and 44% of the Fortune 500 use Ignition
- Highly diversified customer base across many industries
- Ignition installations in 100+ countries
- 4,000+ integrators worldwide
- Profitable and independent with no outside investors





The Unlimited Platform for SCADA and So Much More

- **Connect, Design, Deploy Without Limits:**
 - One central hub for everything on the plant floor
 - Create any kind of industrial application
 - Web-deploy clients to desktops, industrial displays & mobile devices
- **Unlimited licensing**
- **Industrial-strength security and stability**
- **Trusted by thousands of companies worldwide**

An aerial photograph of an industrial complex, possibly a refinery or chemical plant, featuring large storage tanks, complex piping, and various industrial buildings. The entire image is overlaid with a semi-transparent green filter. The text "What is an Ignition Architecture?" is centered in white.

What is an Ignition Architecture?

An Ignition Architecture is...

Multiple services interacting with one another where at least one is an Ignition Gateway



Server Sizing

- Server Sizing and Architecture Guide

- Project Size & Purpose
- Device Connection count
- Tag Count
- Client Count

ARM, 1GB memory, SSD

1-2 devices

500 tags

2 concurrent clients †

16 Cores*, 32GB memory, SSD

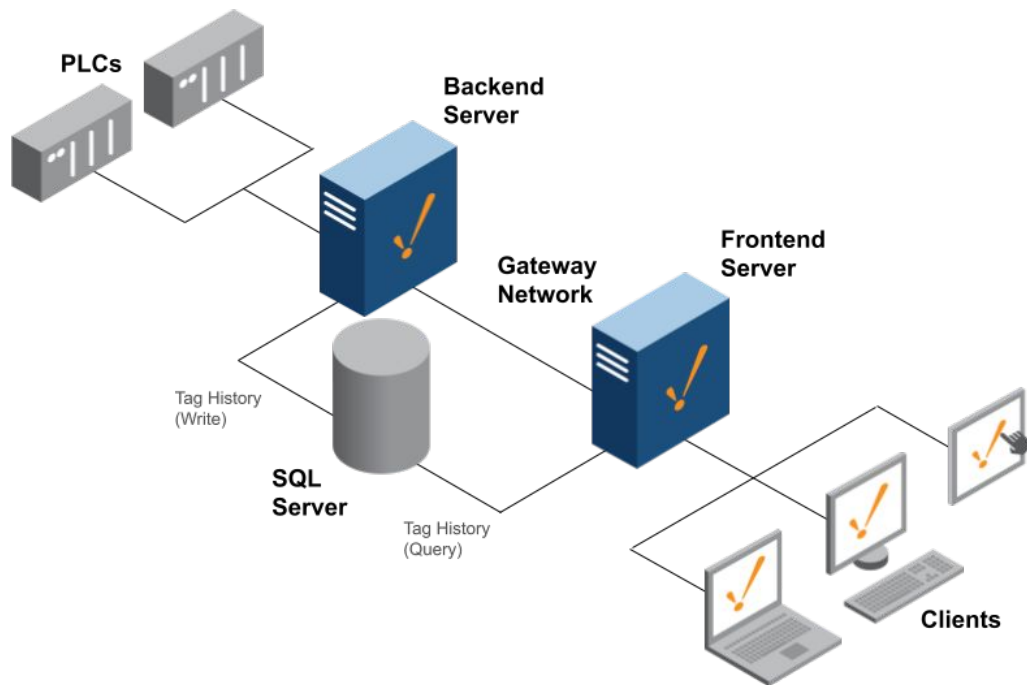
1-100 devices

150,000 tags (6

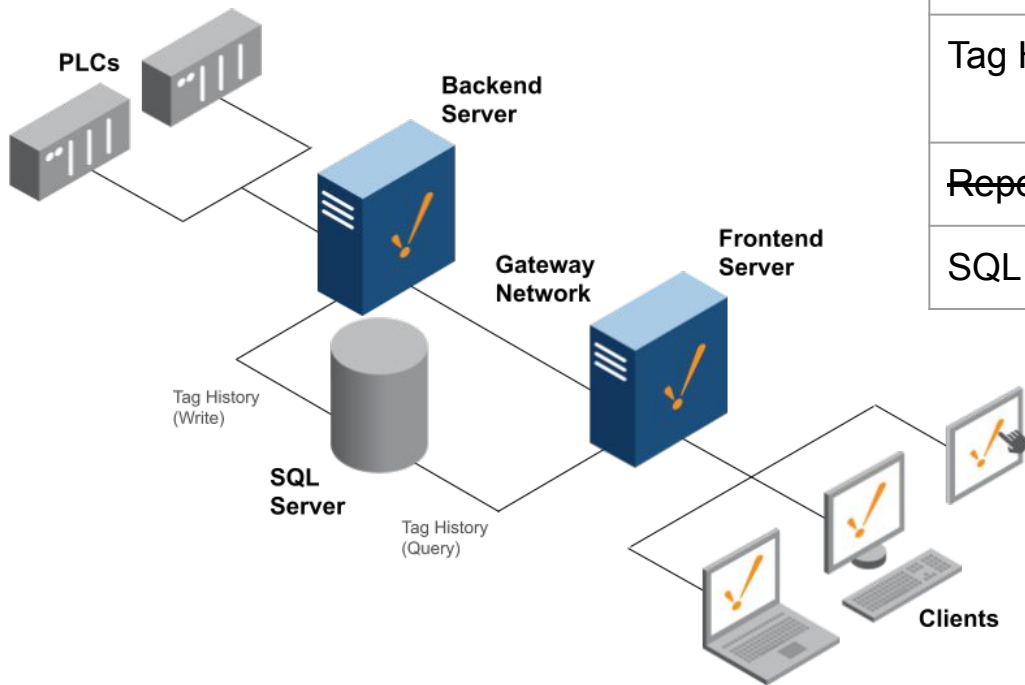
100 concurrent clients †



Why Scale Out?



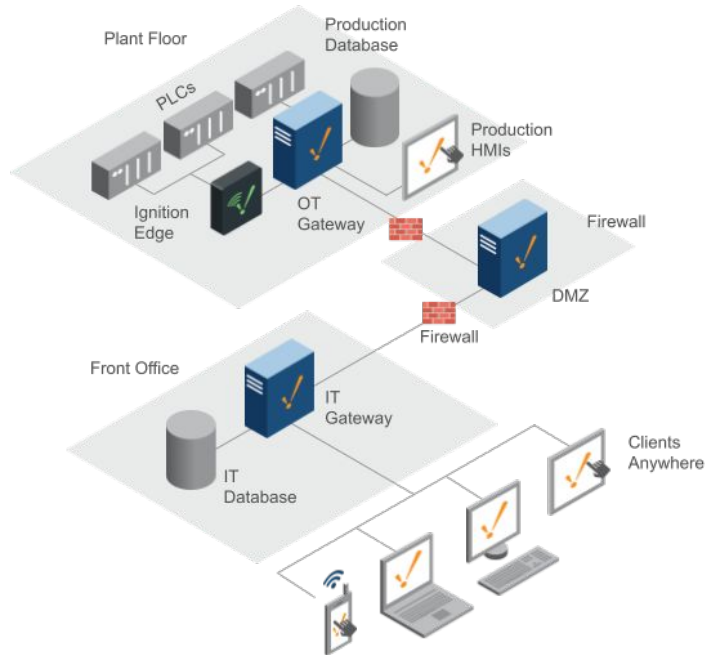
Why Scale Out?



<u>Backend</u>	<u>Frontend</u>
Platform	Platform +\$1,100
Perspective →	Perspective
Tag Historian	Tag Historian (Query Mode)
Reporting →	Reporting
SQL Bridge	

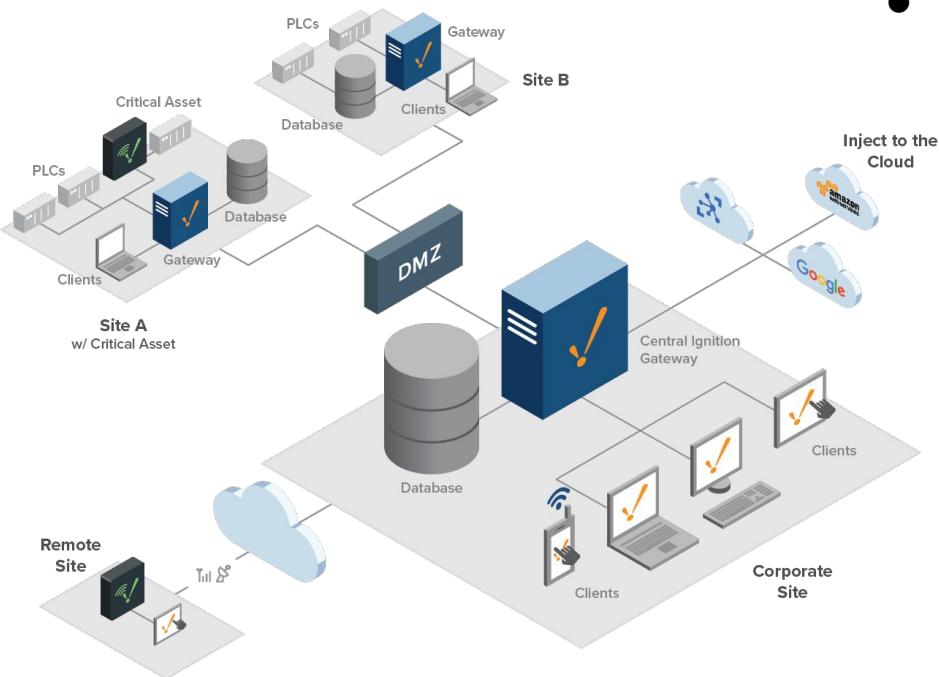
Security

- Security Hardening Guide
 - Backend-Frontend Connectivity
 - Multi-site Security



What About Enterprise or Multi-site?

- DMZ
- EAM/Gateway Network
 - Centralized Audit Logs
 - System Health Monitoring
 - Backup and Recovery
 - Remote System Oversight
 - Task Automation and Execution Audits

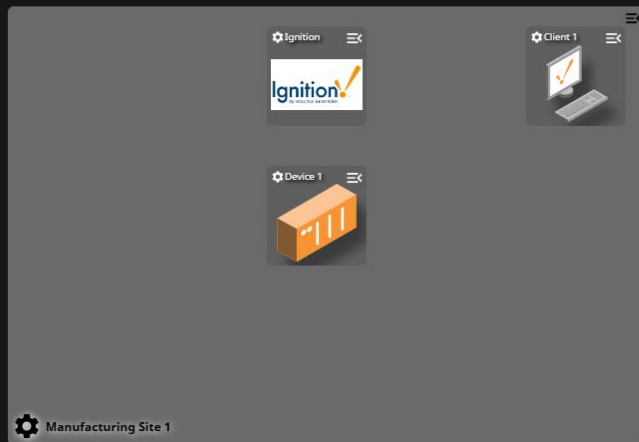


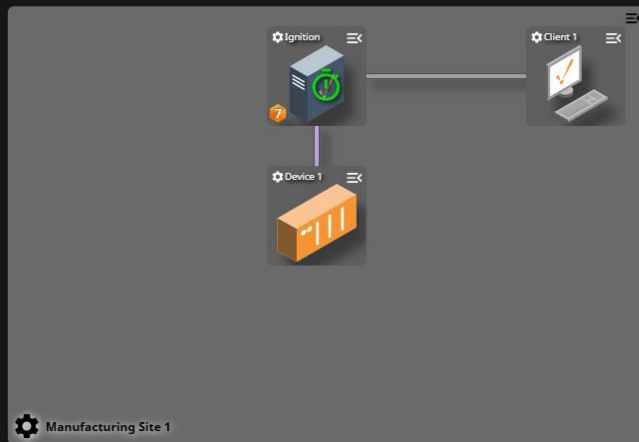
Building out an Architecture

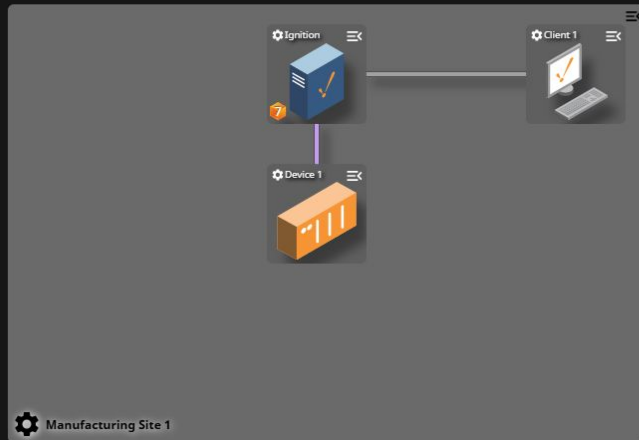


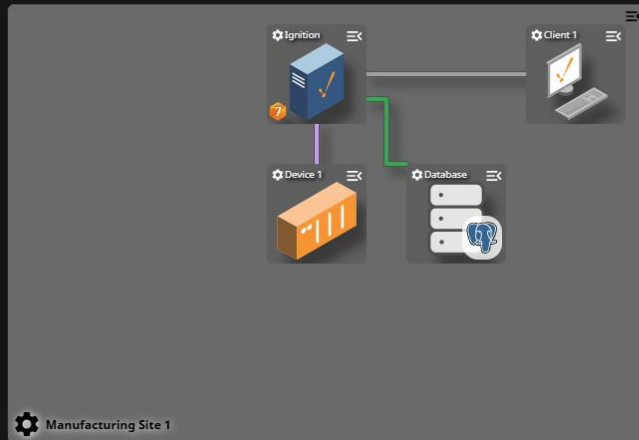


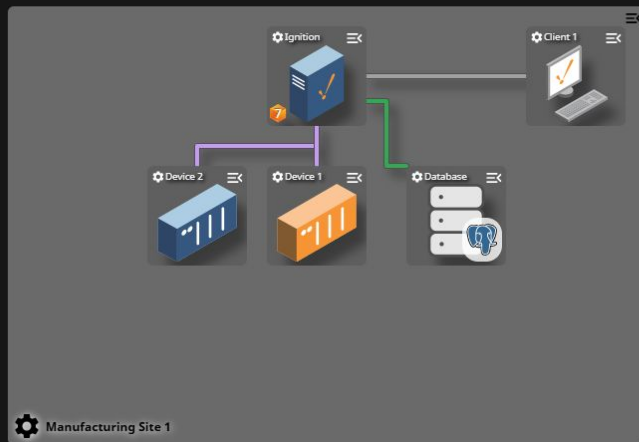


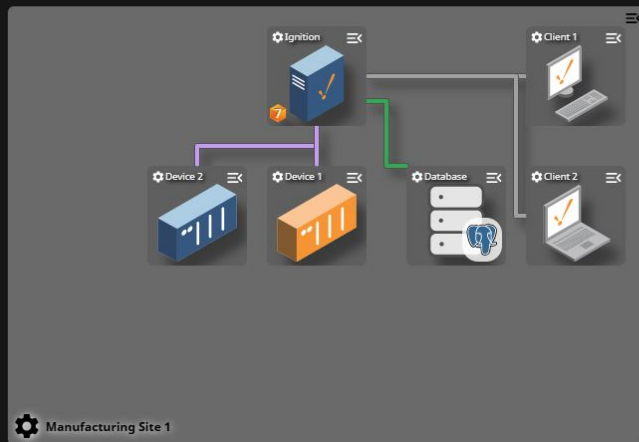


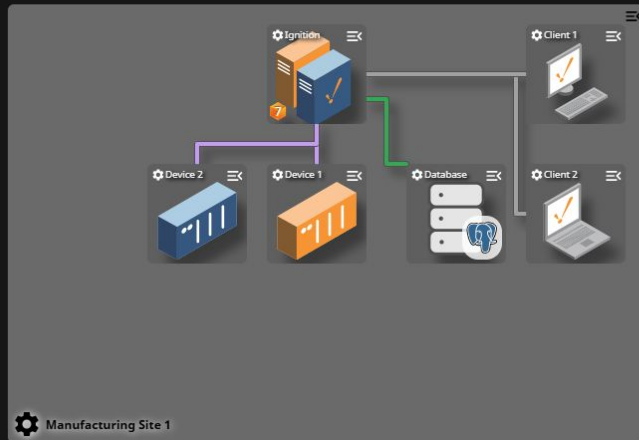


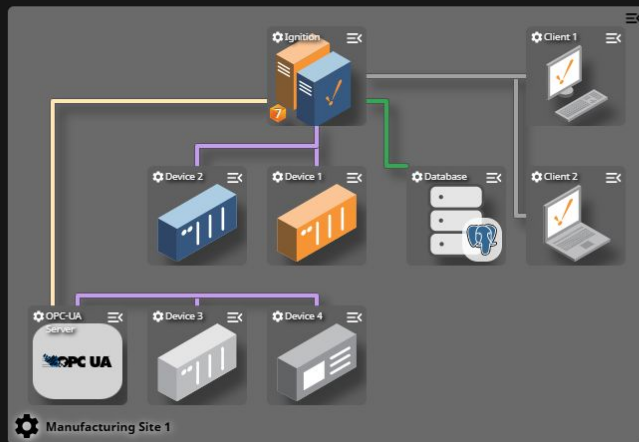


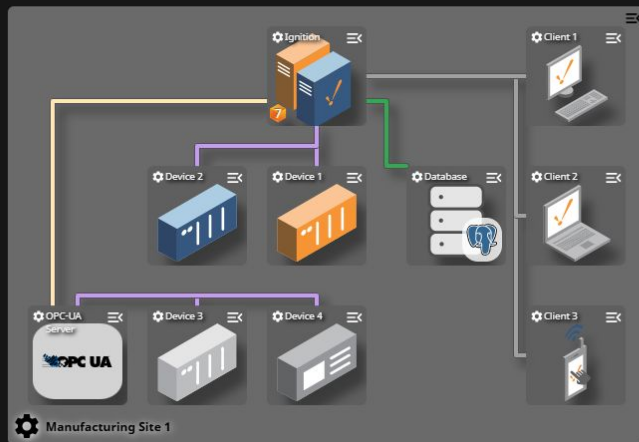


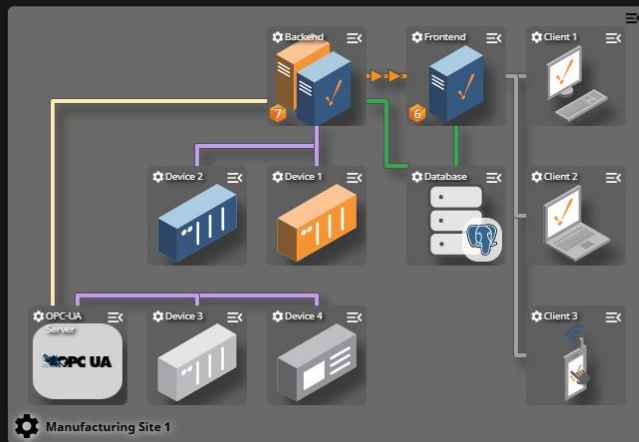


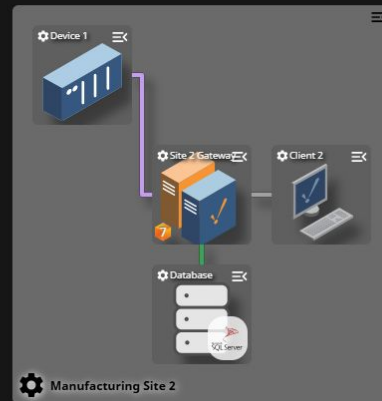
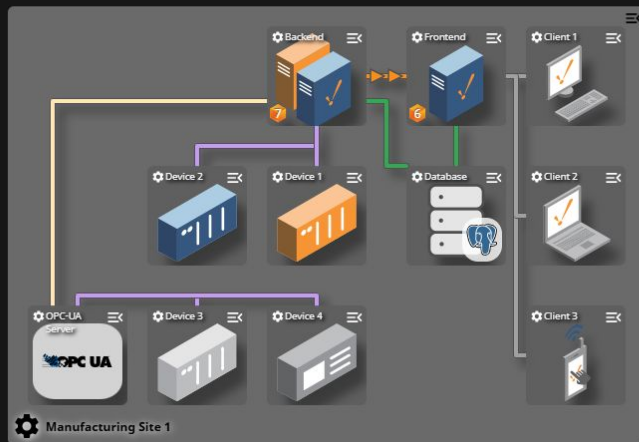


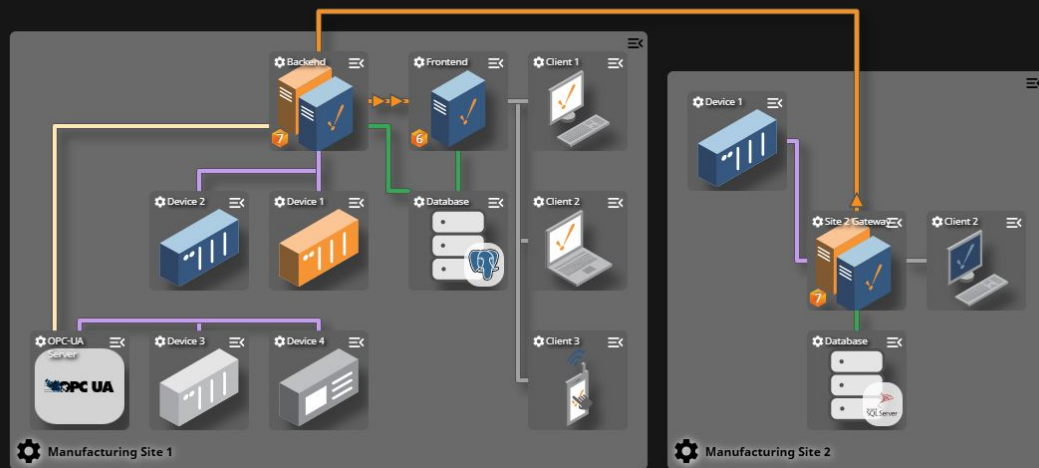


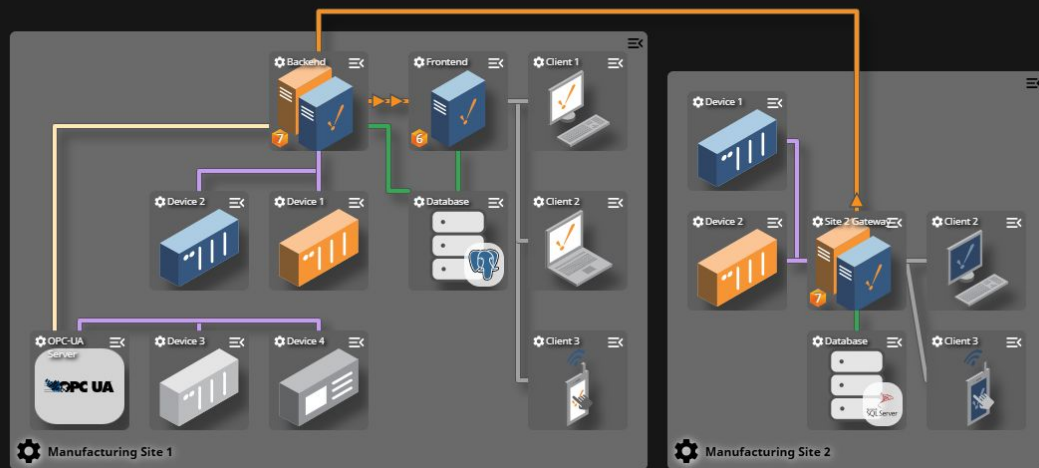


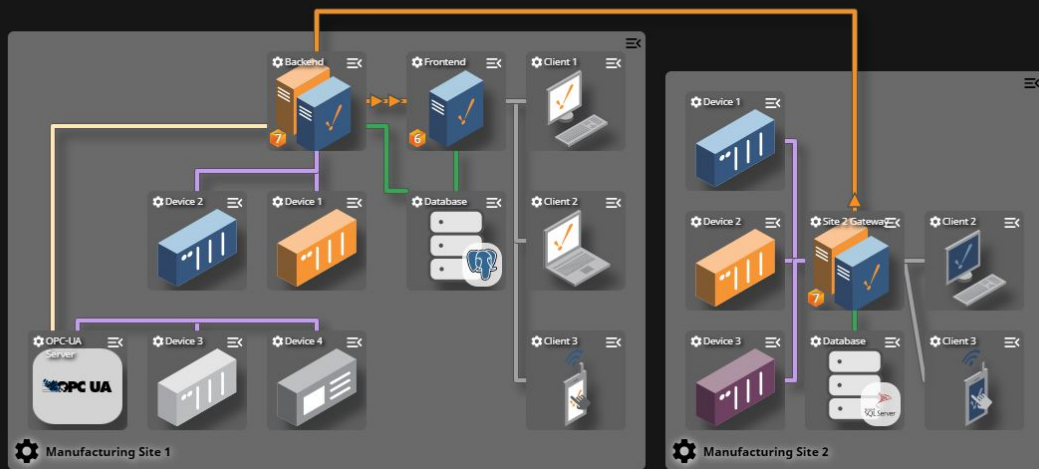


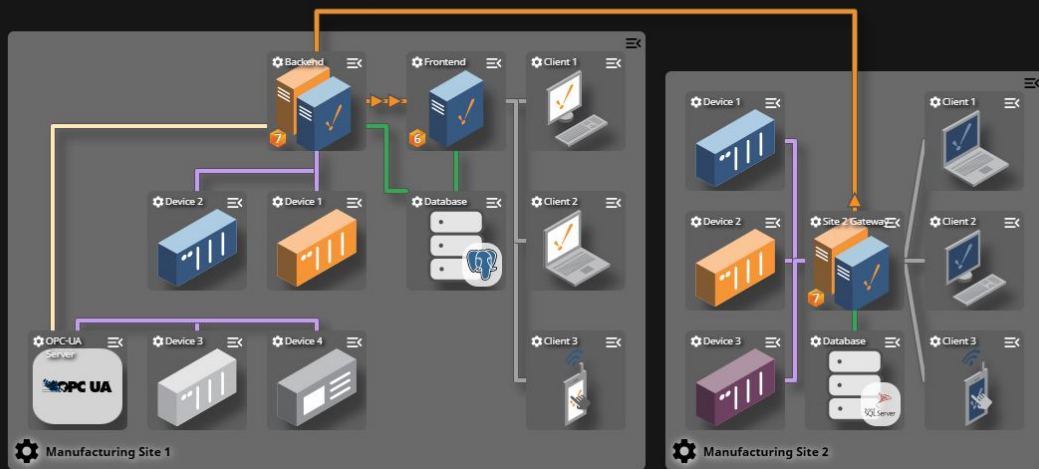


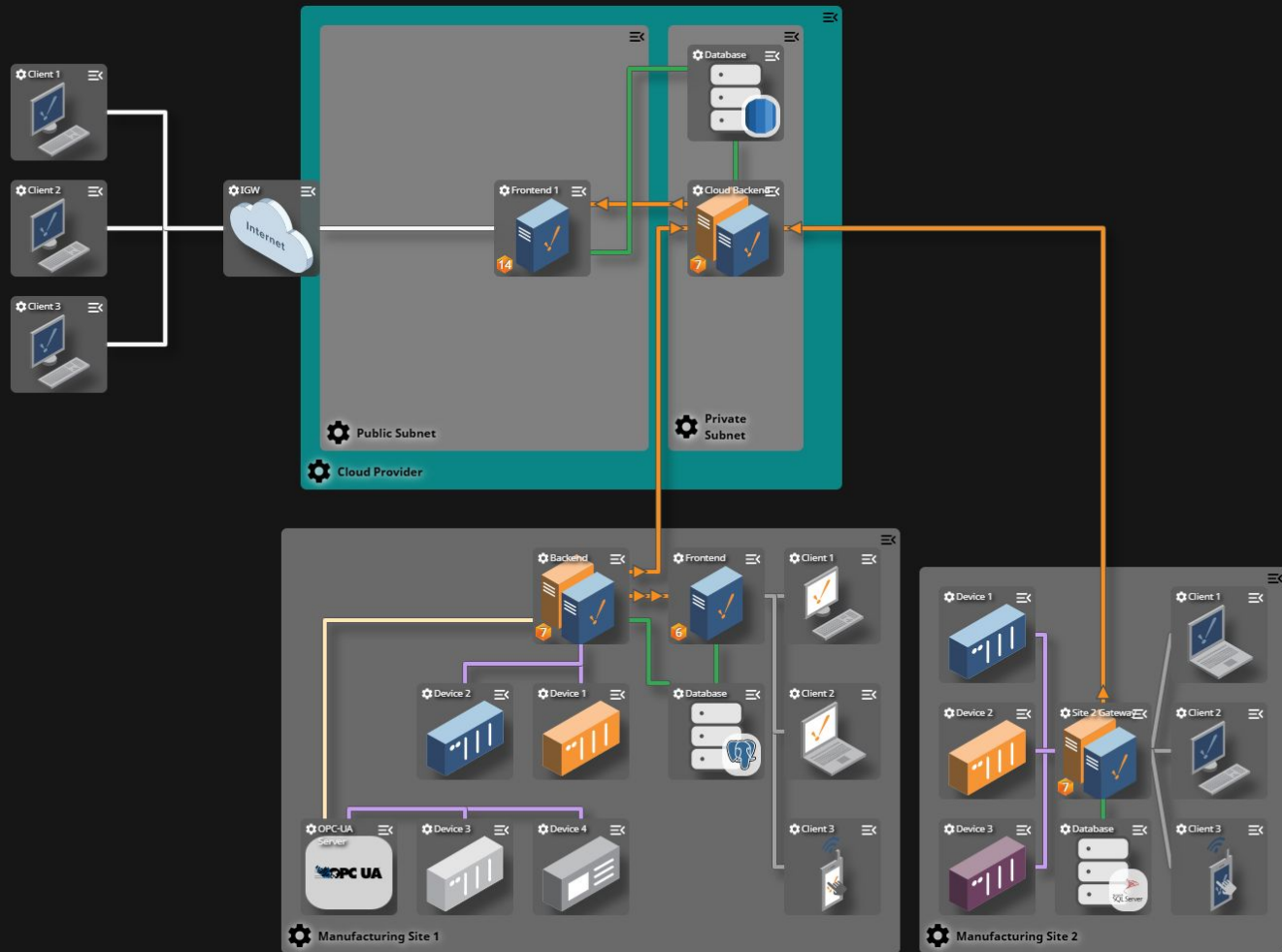


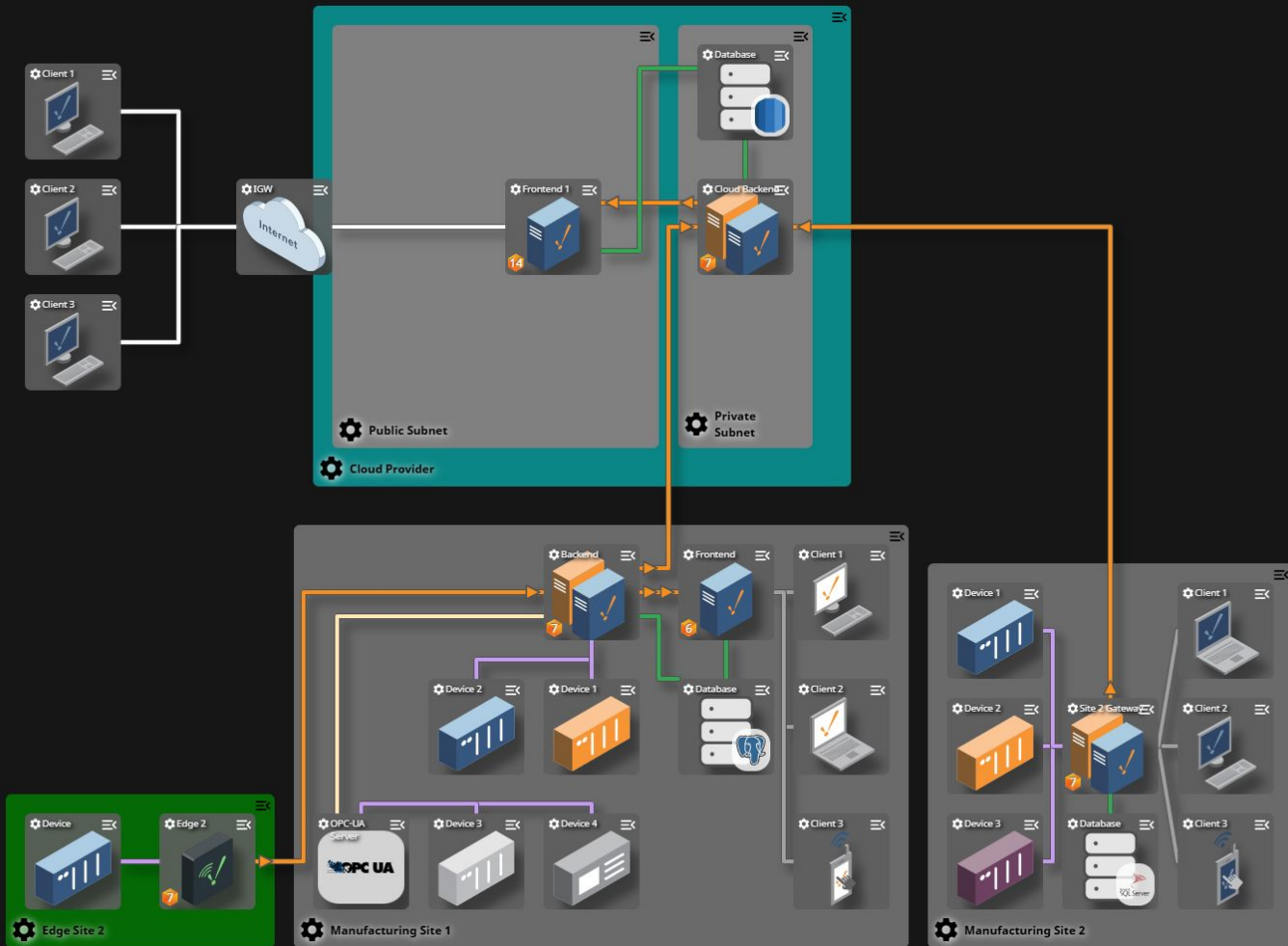


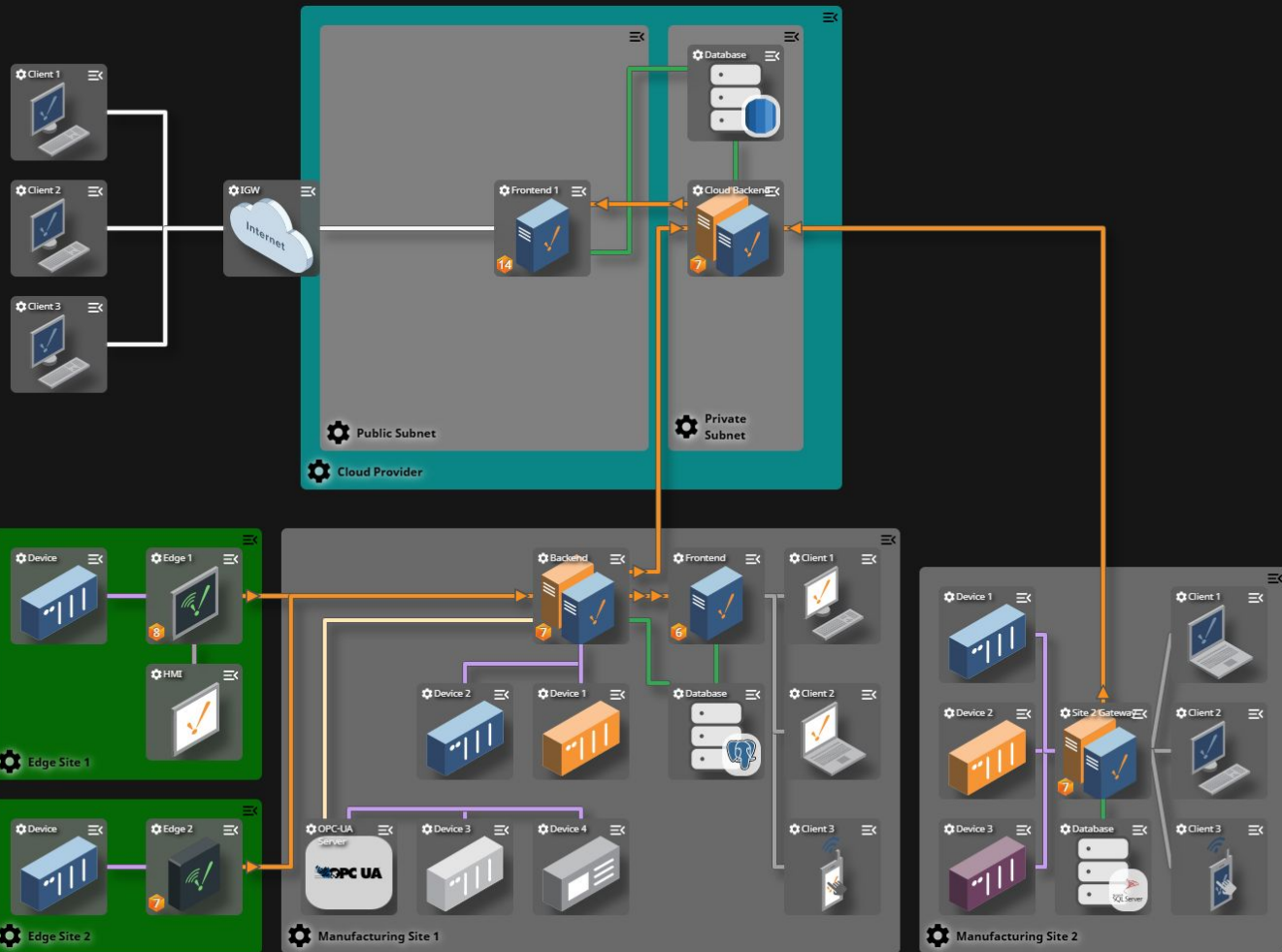


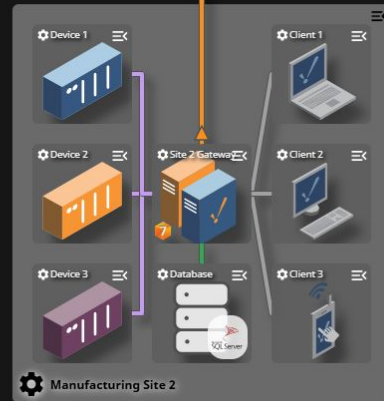
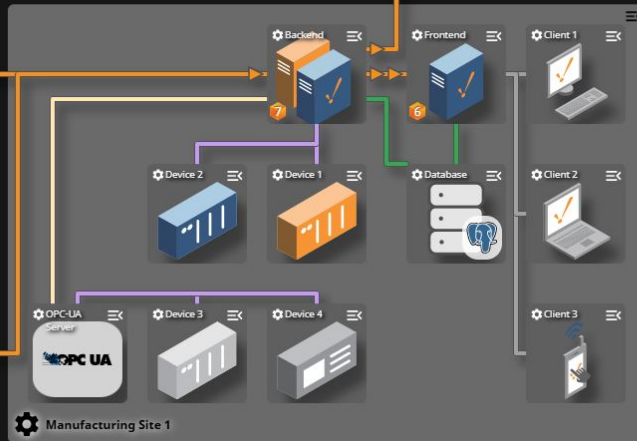
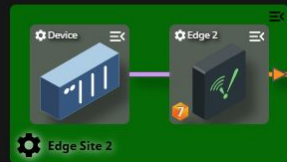
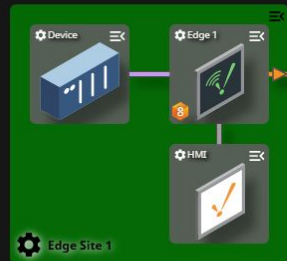
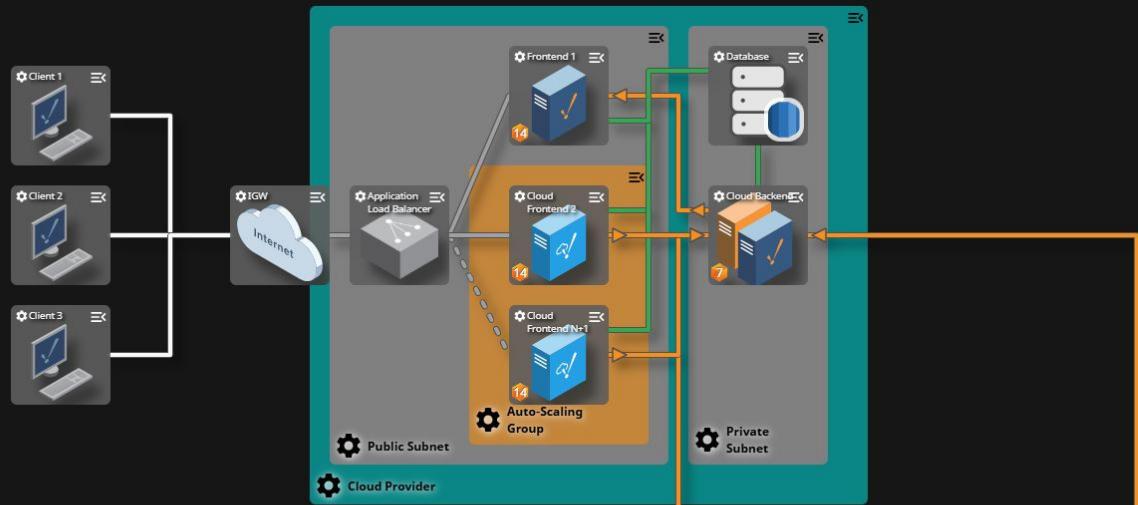












Resource Links

- Free on the Exchange
- Forum Post Linked in the Project To:
 - Architecture Builder Release Notes
 - We are always looking for feedback!





Ready to Try Ignition for Yourself?

Download the full version for free at:
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inductiveuniversity.com

*Ignition User Manual also available at:
docs.inductiveautomation.com*



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