

Ask the Expert: Architecture

Regan Knepp, Community Events & User Groups Lead, Boomi

boomi



Upcoming Community Events

Higher Education User Group Virtual Meetup

- **Date:** April 8, 2026
- **Time:** 2:00 PM EDT

We invite you to our monthly Higher Education User Group meeting, a dedicated platform for professionals in the education sector to connect, share, and learn.

API Management at Scale with Boomi

- **Date:** April 16, 2026
- **Time:** 12:00 PM AEST

Learn how to efficiently manage and scale your APIs with Boomi's powerful platform using proven best practices, techniques, and tools to build robust, scalable solutions.

DACH Virtual User Group Kickoff

- **Date:** April 16, 2026
- **Time:** 11:00 AM CEST

Join us to hear customer success stories, explore product updates and roadmaps, and participate in hands-on workshops like AI Agents, API Management, Rivery, and Boomi4SAP.

Join us at Boomi World 2026
as we accelerate what's possible
through AI-driven integration,
automation, and intelligence.

Be part of what's next. From breakthrough innovations and bold keynotes to hands-on sessions and dynamic networking, this is where **AI ambition turns into AI action.**

Boomi World 2026

May 11–14, 2026 — Chicago, IL

WHY ATTEND BOOMI WORLD?

Build the Future

See how the **Boomi Enterprise Platform** helps organizations **activate agentic AI** to drive intelligent automation and transformation.

Accelerate What's Possible

Learn from peers and experts who are **connecting data, simplifying complexity, and scaling smarter** across every part of their business.

Connect and Collaborate

Join a **global community of innovators** leading the **next wave of agentic transformation.**

Get Trained and Certified

Boost your expertise through **pre-conference training and certification** on key Boomi technologies to stay ahead in a rapidly evolving landscape.

Boomi World is where vision meets velocity and the future starts moving faster.

[Register Today at BoomiWorld.com](https://www.boomi.com/boomiworld)



Brian Brinley

Senior Technical Architect
Boomi

- Brian is a graduate of the New England Institute of Technology.
- He's been involved with Boomi Architecture for nearly 12 years, starting as a customer, then as a partner, back to the customer role, and now as an employee.

Rollercoaster to Boomi: Customer > Partner > Customer > Employee

- He has 26 years of Systems Administration, Application Development, and Life Cycle management under his belt.
- He is 10x Boomi Certified.
- He also loves camping and outdoor activities!

Questions



Question:

1. Documenting processes as a script
2. Timeouts for processes in a loop
3. Security with trigger API events in Boomi



Process Enhancements

1. Documenting processes as a script
 - a. Boomi Scribe
 - b. Boomi Companion (Claude)
 - c. Custom AI Enablement

2. Timeouts for processes in a loop
 - a. Avoid unpredictable loops where possible.
 - b. Apply secondary validation and leverage platform APIs to monitor. Platform API supports cancelExecution endpoint.

3. Security with trigger API events in Boomi
 - a. API Management is the solution for API Governance.

Question:

Wide Net: What tools and best practices are recommended for observability and runtime monitoring in Boomi?



Observability and Monitoring

What tools and best practices are recommended for observability and runtime monitoring in Boomi?

- Observability = Executions
 - Open Telemetry supported now fully available.
 - Leverage a consistent logging framework.
- Monitoring = Environment
 - JMX Monitoring
 - Log Shipping
 - Maintaining Access Controls

Question:

I would like to know best practices for connecting netsuite to salesforce. Would like to know how to step by step build the process and the mapping and execution steps.



Building processes

Best practices for connecting netsuite to salesforce. Would like to know how to step by step build the process and the mapping and execution steps.

Best Practices is arguably subjective, and is dependent upon many factors.

1. The scope and volume of your integration data
2. Relational dependencies inside of NetSuite
3. NetSuite Developmental policies.
4. Utilize Delta changes where possible and plan for idempotency.
5. Avoid Data identifier cross references unless necessary.



Question:

What are best practices for managing our Boomi runtime environments with implementation of MDH, Boomi queues/event streams, and RAM utilization.

Runtime Configuration

What are best practices for managing our Boomi runtime environments with implementation of MDH, Boomi queues/event streams, and RAM utilization.

Best Practices is arguably subjective, and is dependent upon many factors.

1. Define your multithreading strategy.
 - a. Horizontal vs Vertical.
 - b. Is throughput more important than transactional dependency.
2. Monitor your environments health before and after changes.
3. Define SLAs for data processing. There are usually dependencies that come into play that may influence your ability to maximize performance, or may negate efforts

Question:

What are some of the tips and best practices you would give to a new Boomi admin/developer in start-from-scratch environments? Things that you wish you knew when you first start with Boomi.



Tips and Best Practices

What are some of the tips and best practices you would give to a new Boomi admin/developer in start-from-scratch environments? Things that you wish you knew when you first start with Boomi.

1. Inventory Management
 - a. Start by knowing and agreeing what's what.
2. Monitor
 - a. Observe
3. Report
 - a. Record the observations and report on the data. Know what's normal and what's not, data compliments feelings.
4. Innovate - Build with reasoning, and build with technical purpose as well as business functionality.

Question:

Best ways to simplify complicated processes? We have many processes that nearly hit the shape limit, so it would be interesting to hear what we can do to simplify it besides cutting off the process at some point and continuing in a sub-process.



Complex Process Management

Best ways to simplify complicated processes? We have many processes that nearly hit the shape limit, so it would be interesting to hear what we can do to simplify it besides cutting off the process at some point and continuing in a sub-process.

1. Start by identifying reusable components.
2. Decouple where possible, utilizing asynchronous patterns that initiate each other.
3. Document the process and ELI5.
4. Document your changes, build with a purpose and write that purpose down for your future self.
 - a. Process Shape names, Descriptions that define purpose.
5. Offload business logic to the source or target systems where possible.
 - a. Boomi is an integration tool, but a business rules system.
 - b. If your process is spending 90% of the time augmenting the business systems deficiencies then the technical investment is in the wrong place.

Question:










How do I set up our environment so we can process millions of records efficiently. Sample large server specs and examples would be helpful. Linux operating system.



High Volume Transactions

How do I set up our environment so we can process millions of records efficiently. Sample large server specs and examples would be helpful. Linux operating system.

The 50:50 scenario - architecture is just one piece to the puzzle.

Runtime Cluster/Cloud	Small	Medium	Large
Volumes (Txns/Day)	<500k	500k-1m	1m+
Deployment	  	  	  
Nodes	3	3-5	4+
Compute Sizing	8 CPU 16 Mem 128 Disk	16 CPU 32 Mem 256 Disk	32 CPU 64 Mem 512+ Disk
Shared Storage	512 GB / 75Mbps / 10K IOPS	1 TB / 100Mbps / 20K IOPS	2 TB+ / 150Mbps / 30K IOPS

Question:

For workloads that rely heavily on multithreading within a single Atom environment, what hardware configurations (CPU, cores, memory, etc.) does Boomi recommend to achieve optimal performance and stability?



Multi threading

For workloads that rely heavily on multithreading within a single Atom environment, what hardware configurations (CPU, cores, memory, etc.) does Boomi recommend to achieve optimal performance and stability?

In short, you need to evaluate moving to a clustered runtime.

In a more complicated answer, ensuring the fastest local resources as possible.

Question:

How can we export data for analysis?



Data Export

Developer Documentation ▾ API Reference ▾ Dev Blog 🔍 Help Docs Sign In

Explore Boomi APIs

Unlock enterprise automation with APIs for platform operations, data integration, connectors, file transfers, and more

Find the right APIs for your use case

Explore REST, SOAP, and GraphQL APIs by service area to programmatically manage integrations, data flows, events, and automation across your enterprise

- Platform REST APIs**
Streamline Platform operations with REST APIs to deploy, manage, and monitor at scale
- Platform SOAP APIs**
Access Enterprise Platform functionality using SOAP with enterprise-grade WS-Security standards
- GraphQL APIs**
Query exactly the data you need with flexible, efficient GraphQL requests and strong typing
- Connector APIs**
Deploy and manage custom integration connectors programmatically with REST-based operations
- Platform Partner APIs**
Manage multiple customer accounts with partner-level access and account override capabilities.
- Data Integration APIs**
Automate Rivers, DataFrames, and data processes programmatically through REST endpoints
- Managed File Transfer APIs**
Manage secure file operations, sharing, and audit logging across your enterprise environment
- Bundles APIs**
Manage bundles with flexible authentication to create, share, and install artifacts using REST
- Audit Log Staging APIs**
Retrieve audit logs programmatically with date filtering and account-level access control
- Event Notifications REST APIs**
Configure and manage event notification subscriptions programmatically with JWT authentication
- Data Hub REST APIs**
Manage Data Hub repositories, universes, records, and data quality operations programmatically

<https://developer.boomi.com/docs/APIs/APIReference>

Question:

Recommended architecture for high performance data API backends using Boomi integration.



High API Traffic

Recommended architecture for high performance data API backends using Boomi integration.

- Horizontal Scaling is more important than Vertical scaling.
- Low Latency/Bridge mode
- Avoid using shared resources
- Network File shares become incredibly important.



Question:

How can we design a scalable and highly available Boomi architecture for an enterprise with global users?

Global Access



How can we design a scalable and highly available Boomi architecture for an enterprise with global users?



- Design for resilience
- Plan for Compliance considerations.
- Consider Regional team isolation.
- Define the unified strategy, at what point to teams come together, if disparate teams.

Question:

How to store secure data in Dynamic Process Properties?



Secure Data Storage

How to store secure data in Dynamic Process Properties?

- Utilize Process Properties with hidden data type.
- Implement Key Vault integration

Question:

How do we increase the performance when Boomi Hub is connecting to Oracle EBS DB multiple times in a an integration process? Do Boomi has any limitations to process more than one lakh records from Boomi Hub DB to Ecosys (3rd party application) using rest API ?



Process Performance

Question:

What are latest upcoming features from Boomi Operations and Observability perspective. What AI features is Boomi incorporating to address complex Integrations.



Product Roadmap

Observability and AI

- Follow the Product Roadmap - <https://boomi.com/blog/boomi-product-roadmap-q1-2026-everything-you-want-to-know/>
- Follow Agent Studio Marketplace - Agent Template Marketplace
- Augment with your own tools. Leverage the platform APIs to pull relevant data and analyze by your specific needs.

Other Resources



Product Feedback

<https://community.boomi.com/s/ideas>

If you have any product feedback for Boomi, please submit a request.

Follow up with your customer success rep after you submit it so they can stay involved in the request.



Thank you