

Ask the Expert: Architecture Q&A Session

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boomi

Agenda

01 Upcoming Events

02 Boomi World

03 Expert Introduction & Questions

Upcoming events!

● Boomi's Partner Enablement Vision – 2024

Date: April 24th, 2024, 10:00am [EDT](#)

Registration: Please Register [here](#)

Agenda: Join us for the first session of our latest enablement series tailored for Partners! Discover the latest partner enablement updates: program direction, learning paths, career growth, and upcoming developments. Stay ahead with strategic insights and tailored opportunities for success. Join us in shaping the future of partnerships.

● Developer: Document Flow

Date: April 25th, 2024, 11:30am [EDT](#)

Registration: Please Register [here](#)

Agenda: What is a Boomi Document? Exactly how does it flow through the shapes in my process? By the end of this session, you'll be able to predict your document looping and flow, no crystal ball required! Join Senior Integration Captain, Brad Detlefsen for "Developer: Document Flow" as part of the Role-Based Path series.

In-Person User Group Events:

● Boston User Group: Unlock Your Data Potential with Master Data Hub

Date: April 24th, 2024, 4:30pm [EDT](#)

Registration: Please Register [here](#)

Agenda: Come join us as we reignite the flame with in-person Boston user group events! Dive into Boomi's Master Data Hub with industry experts. Learn Master Data Management (MDM) fundamentals, hear real-life customer success stories, and gain insights during a two-hour session, followed by a social hour. Elevate your understanding of data management with Boomi.

● Orange County User Group: Unlocking Success with Boomi Industry Leaders

Date: April 24th, 2024, 2:30pm [PDT](#)

Registration: Please Register [here](#)

Agenda: Join us on April 24th in Lake Forest, CA for our in-person user group event dedicated to fostering a dynamic Boomi community! Engage in insightful discussions, learn from industry leaders, and connect with fellow Boomi enthusiasts. Highlights include networking, real-world use cases, and insights into Boomi Professional Services.

Join us at Boomi World 2024 for an unforgettable experience as we reveal the next era of intelligent integration and automation.



May 6–9, 2024
Denver, Colorado
Downtown Sheraton Hotel



Plus, get motivated with special guest **Deion “Coach Prime” Sanders**, collegiate head football coach and pro football hall-of-famer as he shares insights on leadership, determination, and the keys to success.

Secure your spot and lock in Early Bird savings by registering today!

[Secure your spot today](#)



WHY ATTEND BOOMI WORLD?

Stay Ahead of the Curve

Hear directly from Boomi executives and technologists on our vision for AI-empowered business.

Get Trained and Certified

Sign up for pre-conference training and get certified on key Boomi technologies, equipping you with the skills needed to navigate today’s fast-changing technology landscape.

Build new partnerships

The Partner Summit is a must-attend event for Boomi partners. And be sure to check our sponsorship opportunities.

Sharpen Your Expertise

With breakout sessions tailored for developers, integration architects, business users, and executives, Boomi World offers valuable content for everyone. Check the online agenda often for the latest updates.

Accelerate Inspiration

Get inspired by innovative companies across industries that are accelerating business outcomes, taming complexity, and transforming their organizations using the Boomi platform.



Kevin Mateo

Technical Architect

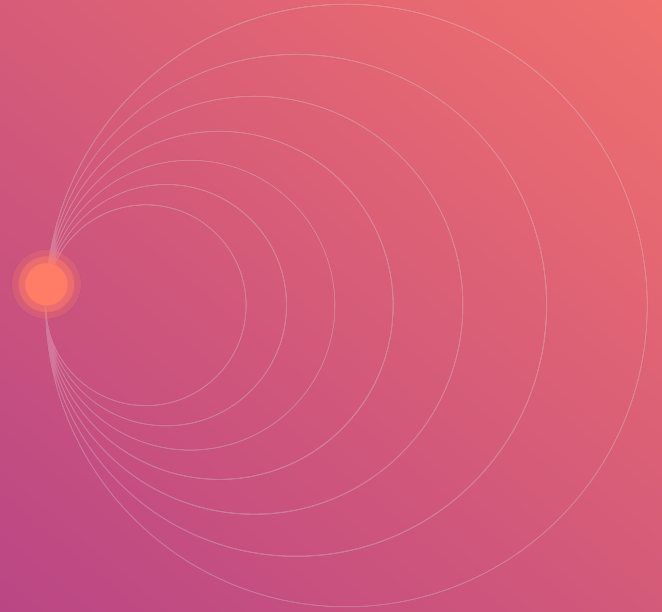
- A member of Boomi's Professional Services Organization.
- Previously, an Integration Consultant and before that worked within the support organization.
- Helps customers set up Boomi runtimes with various configurations and works closely with various other teams to assist (EA/MCS/PMM) and sets up iCoE (integration Center of Excellence) for customers!
- Enjoys working with new technology to develop state of the art solutions!

Questions



Question:

What are the best practices and guidelines when it comes to Boomi architecture?



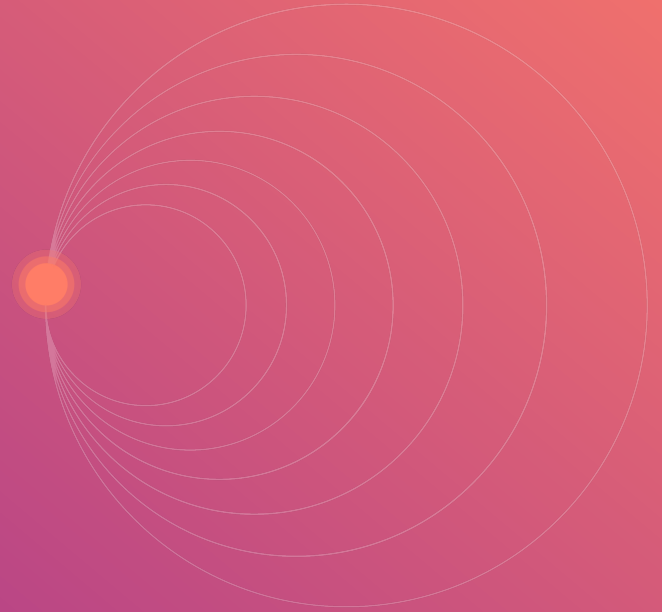
Runtime Options

- Atom - Atoms are the most basic Runtime one can install. An Atom consists of one single JVM running on one Server typically using only local storage of the Server
- Molecule - Molecules are a Runtime offering which allow multiple nodes to split work and offer a more robust fault tolerance. Molecules are comprised of Node machines which each run a JVM as well as a Shared Disk server which will store most of the data and workings of the Molecule.
- Atom Cloud - Same Architecture as a Molecule but can only be Multi-Tenant.

<https://community.boomi.com/s/article/Guide-to-Choosing-your-Runtime>

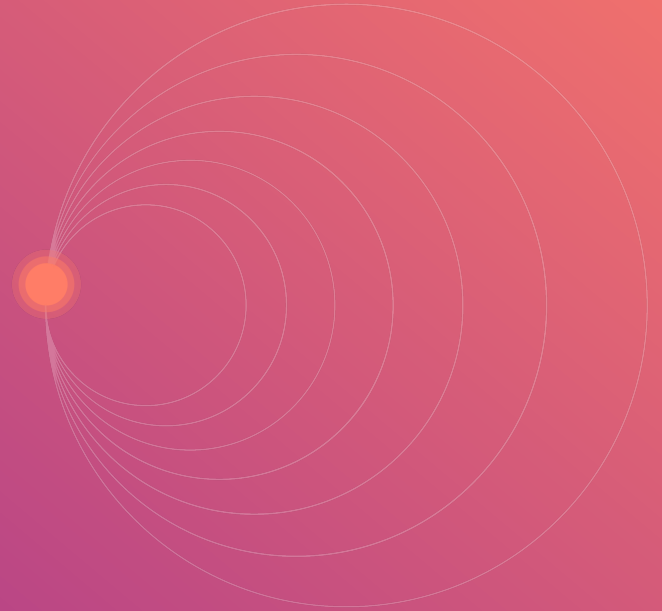
Question:

Are there any design patterns that are not suitable for Boomi implementation?



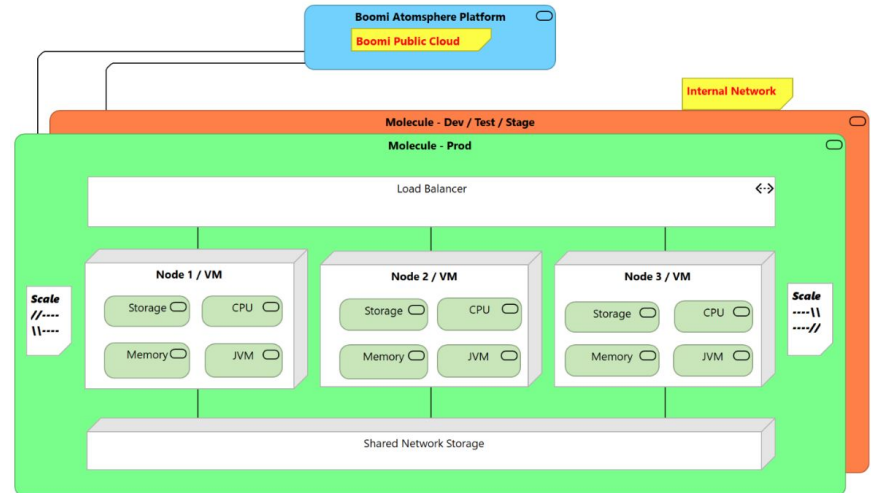
Question:

How to set up and choose the right Runtime?



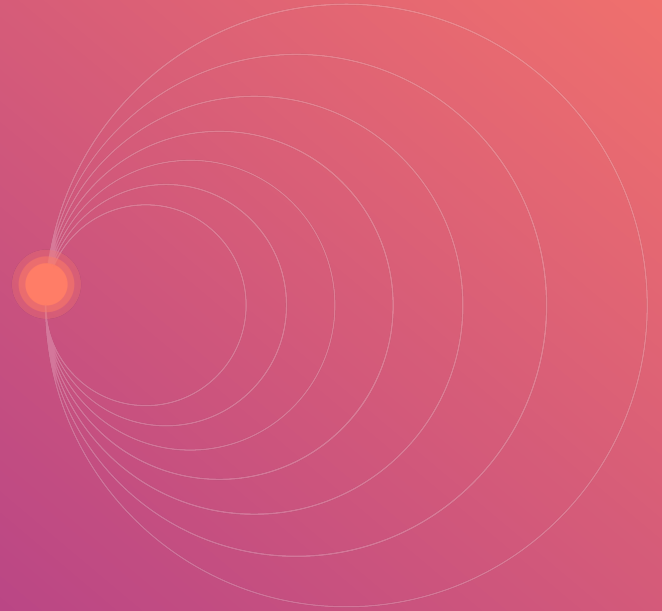
Runtime Options

- Atom – Single JVM , no HA , and single tenant
- Molecule – Multiple nodes, HA , & Single tenant
- Atom Cloud – Multiple nodes, HA & Multi tenant



Question:

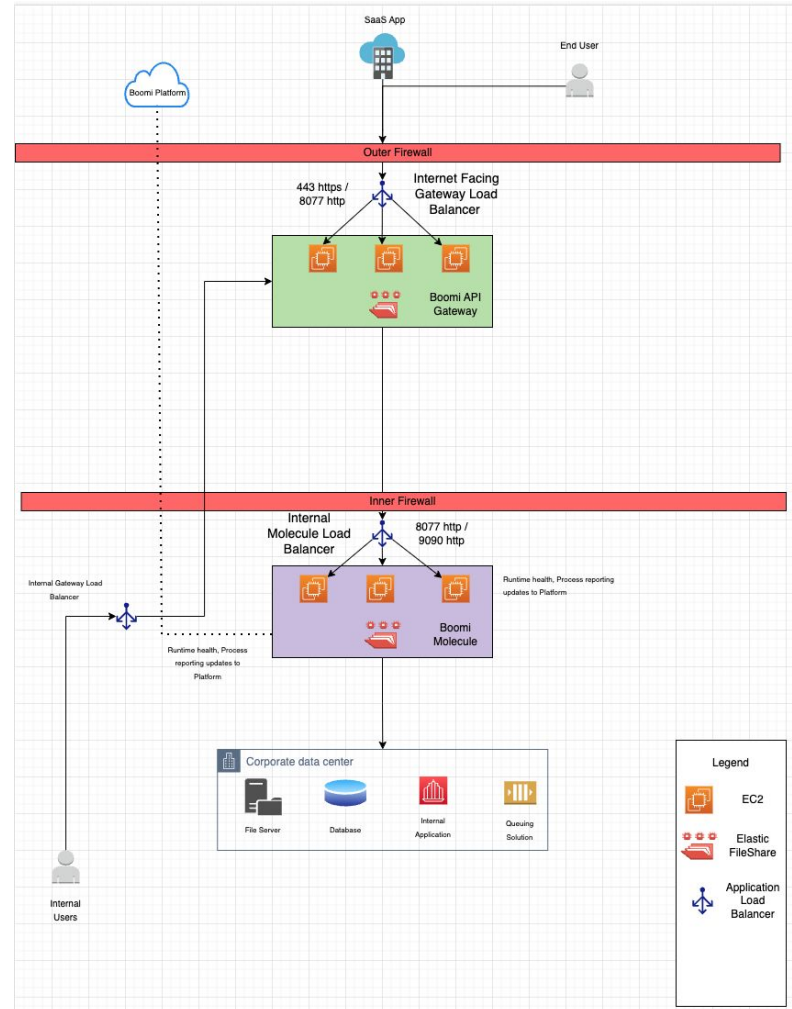
What are the pros and cons of using Boomi for Rest API Microservice for Web and Mobile frontend applications?



APIM

Boomi API Management solution enables creating and publishing centrally managed APIs. API Management consists of 3 major components,

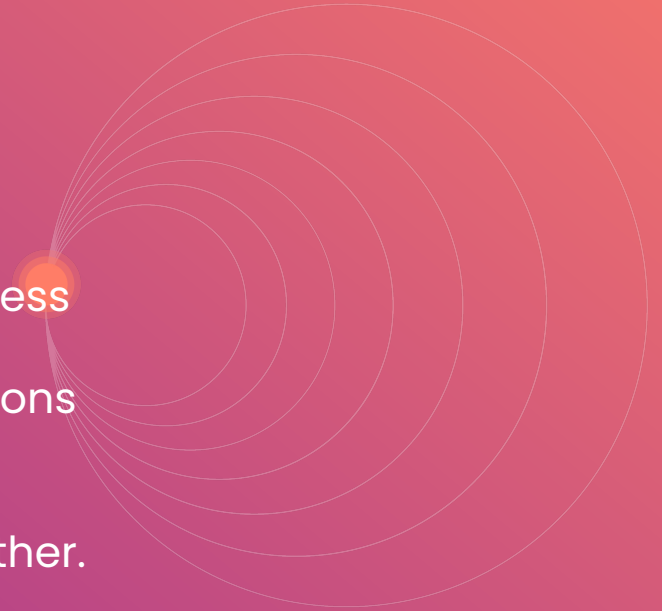
- API gateway – Boomi API Gateway provides a single, unified API entry point across all internal APIs that are exposed in Boomi Runtime, and external APIs that are exposed by other internal/external systems. Users can deploy any number of API components to be housed on it. It also hosts the authentication sources that can be used for external authentication.
- Security Options – Network isolation , JWT (OAuth2.0), & API Key authentication



Question:

What is the proper way to create a sandbox process, push that process into a production version to deploy?

Currently we are assisting a client with a process that we didn't build, but there is a Sandbox version which has all of the sandbox connections and I can't see a way to "deploy" it to the production version so we have to manually replicate all of the changes from one to the other. Is that just the way it is with this platform?



Deployment History

- Deploy to different environment
- Revision History
- Rollback changes to production version

Deployments

After you have successfully built and packaged your components and processes, you are now ready to deploy them to a Test or Production environment. Use the Deployments page to create new deployments of your packaged components and manage all active deployments. The Action menu allows you to view detailed deployment history of the selected packaged component. [Learn more.](#)

Deploy Packaged Component

Add Filter

Actions	Component Name	Component Type	Package Version	Environment	Deployment Date	Deployed By	Deployment Notes
	Proxy to SubAccount API	API Proxy	7.0	Dev	08 Sep 2023 11:17:34	kevin.mateo@booml.com	—
	HW API	API Service	15.0	Dev	08 Sep 2023 10:55:14	kevin.mateo@booml.com	—
	Hello World	Process	23.0	Dev	08 Sep 2023 10:53:59	kevin.mateo@booml.com	—
	Query Account Records	Process	9.1	DevOps Production	30 Aug 2023 10:42:33	kevin.mateo@booml.com	—
	Query Account Records	Process	8.1	Dev	26 Jun 2023 22:17:09	kevin.mateo@booml.com	—
	Test	Process	5.0	Dev	06 Jun 2023 14:02:46	kevin.mateo@booml.com	—
	Hello World	Process	16.0	Stg	16 Nov 2022 14:40:38	kevin.mateo@booml.com	—

Deploy to Different Environment

Rollback

Undeploy

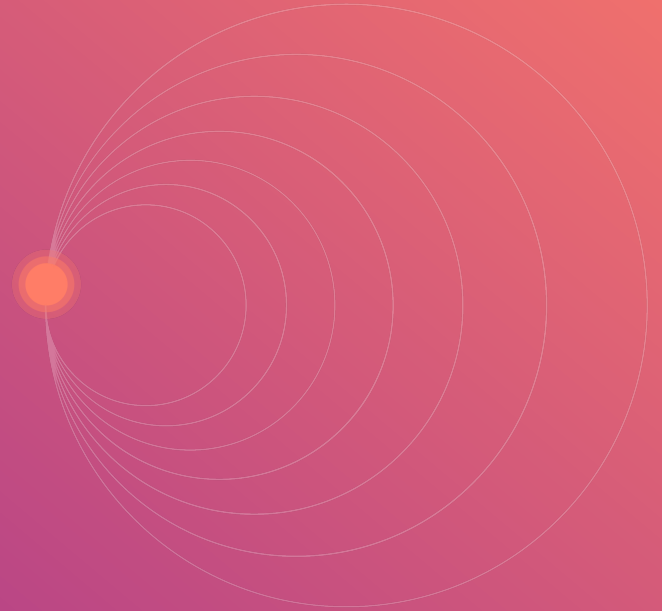
Deployment History

Compare Deployments

Copy to Component Explorer

Question:

What are some guidelines for building cloud atoms?





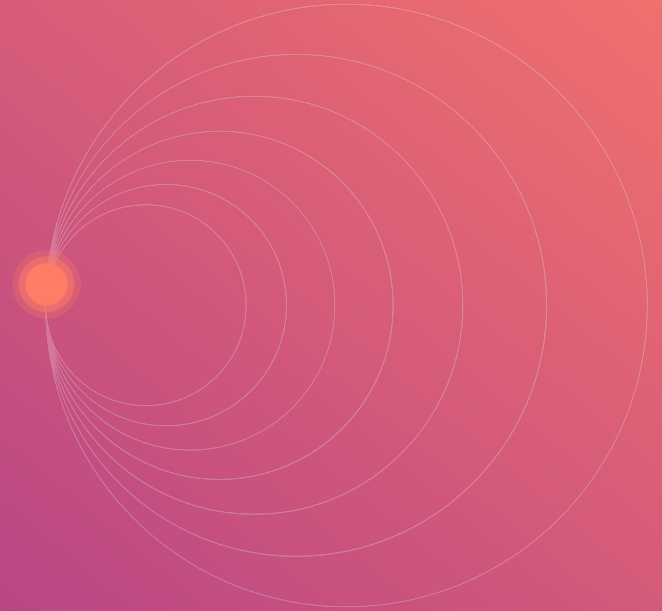
Detailed installation steps

<https://community.boomi.com/s/article/A-Walkthrough-to-Molecule-and-Cloud-Installations>

Question:

Is Boomi the right tool for data migration?

What are some right techniques for huge data migration?





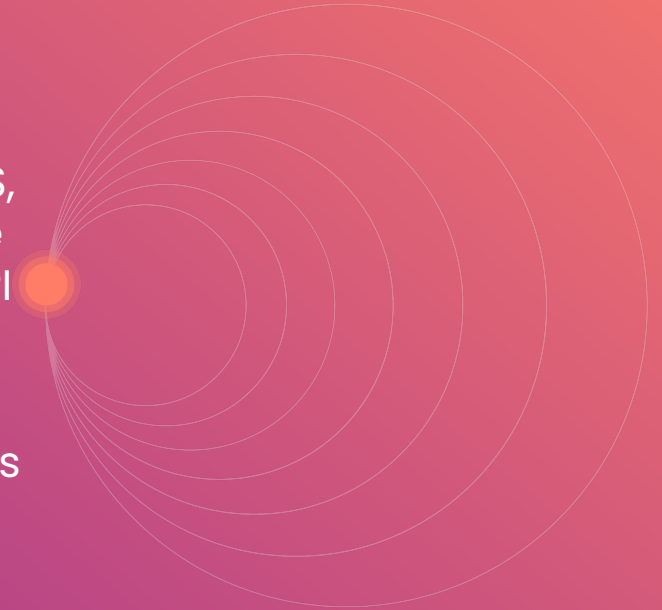
Data Migration

- Boomi performs better moving smaller payloads
- Do not transform massive payloads, can scale better point-to-point
- Use Flow control to divide the load or use multiple number of executions to offload onto multiple nodes

Question:

If case forked execution is enabled on a molecule, does all the listener processes (JMS, web services) transactions trigger a separate jvm for each of it? Like if I get 10 calls for an API then it will spin up 10 jvms to execute this transactions

Also for flow control configured with processes option will be able to spin up new jvm without forked execution being enabled in properties of molecule.





Forked Molecule

A forked molecule causes a node to execute each process in a separate JVM, **forked each time that another process executes**. Using flow control set to processes without forked enabled will distribute it to the other nodes in the cluster but will generate threads if the number set in the flow control exceeds the number of servers i.e FC set to 7 processes in a 3 node cluster will result in the integration running in the 3 nodes and generating 4 threads.

The benefits of using forked execution are:

- Currently-executing processes use more of the total memory of the machine.
- The node is more robust because catastrophic failures (such as a JVM crash or OutOfMemoryException error) in a given process execution do not affect the main node process or any other currently-executing processes.

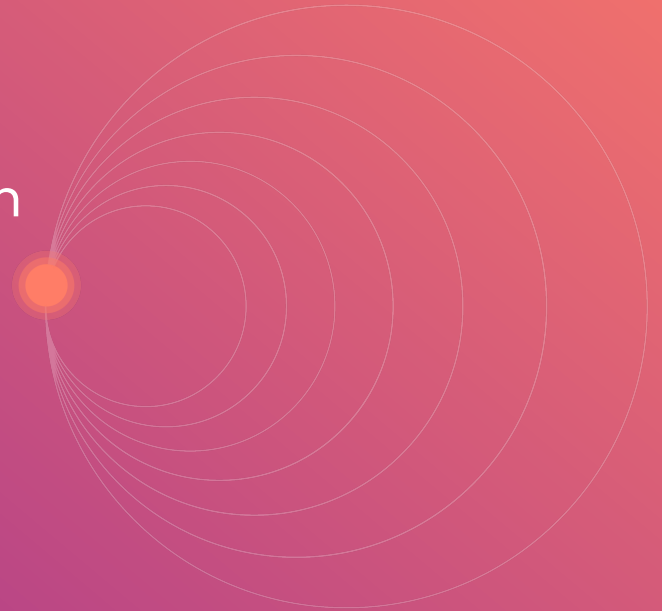
The drawbacks to using forked execution are:

- A slight delay in process execution, due to operation system process startup time.
- More machine resources are used than a single node.

Question:

How is Boomi gearing up with AI buzz in the market?

Are there actual industry specific use-cases where Boomi is actively working on?





Boomi AI

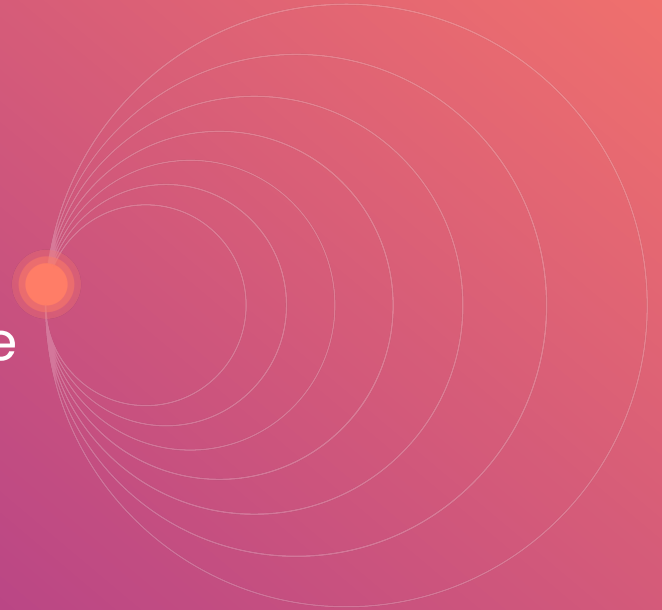
Boomi AI can:

- **Design Connections:** Boomi AI can design integration processes, application programming interfaces (APIs), and master data models with built-in best practices from millions of successful use cases, all by giving Boomi AI a quick command like, “Connect my CRM and invoice systems.”
- **Optimize Operations:** With Boomi AI’s actionable intelligent insights, users can solve problems proactively, facilitate predictive maintenance, automate updates, and allocate optimal resources to enable software to efficiently self-manage itself. Boomi AI’s insights, like “A data attribute in Salesforce has changed. Would you like to apply it across your systems?” make previously menial tasks quick and easy.
- **Orchestrate experiences.** Imagine telling the Boomi platform, “Automate invoice processing for our new EMEA operation.” With Boomi AI, the platform knows which systems to connect and how to orchestrate processes across applications. The result? Your AP department saves valuable time and payment delays are eliminated, resulting in higher vendor and employee satisfaction

<https://boomi.com/blog/introducing-boomi-ai/>

Question:

What considerations would you recommend for setting up a Runtime when you'll be using it along with Master Data Hub?





Master Data Hub

- Hub is shared with all other US based customers so resource usage can vary greatly.
- Runtime works the same as the Boomi public cloud.
- Optimize the local runtime & integrations to distribute the data into the MDH cloud effectively. You should be adjusting your JVM sizes according to your business needs through testing

Questions





We are Boomi.

Be Bold. Be You. Be Boomi.