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Boomi 

# Basic Concepts



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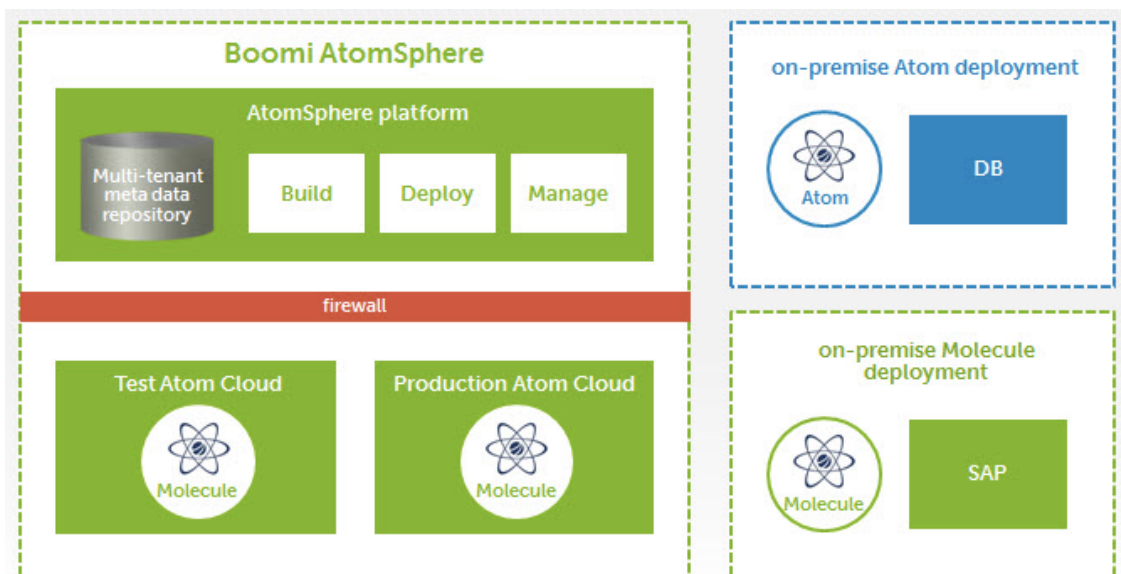


Before starting to work with the Boomi AtomSphere platform, it is important to understand the general terminology and concepts of this platform.

## Atoms, Molecules, and Atom Clouds

AtomSphere provides a cloud-based integration platform. It supports two deployment models: an in-the-cloud deployment model that is used when all the integration endpoints are cloud-based and an on-premise deployment model that is used when any of the integration endpoints are within a corporate network.

- If you use the in-the-cloud model, you can deploy your integration processes via a Boomi **Atom Cloud**.
- In case your organization requires the on-premise model, AtomSphere allows you to create your **Atom**. This represents a lightweight Java application that is deployed on a host with the Internet access.
- If you use the on-premise model and want to have a highly available, load-balanced solution, in case you want to change your Atom's processing time or volume handling, or if you are worried that your Atom's processes may not run because of a computer outage, consider using a **Molecule**. It is an enterprise-grade version of an Atom that executes integration processes and that can be deployed on multiple servers.
- If you need a multi-tenant solution to accommodate multiple customer accounts, consider setting up your own *private Atom Cloud*.



*Atoms, Molecules, and Atom Clouds* use the same basic technology. Note, however, that to differentiate these terms. A *Molecule* represents an *Atom* with multiple nodes. An *Atom Cloud* is a *Molecule* that is available to multiple tenants.

## Integration Lifecycle

The integration lifecycle on the AtomSphere platform consists of the three steps that are introduced and described below:



## Build

By using the AtomSphere library of provided connectors and maps, it is possible to easily design your integration and required business processes. Thereafter, you can load your configuration into a lightweight, a dynamic run-time application that is called an *Atom*.



## Deploy

Deploy your *Atoms* to the AtomSphere for SaaS, PaaS, or Cloud integration. You can also deploy your applications on-premise and use your firewall to protect your data.



## Manage

By using a feature-rich web-based dashboard, you can monitor and maintain the status of all your deployed *Atoms*, integrations processes, and business partners, regardless of the location.



Filter: Your Account | All Atoms & Environments

### Offline Atoms

- Boomi Cloud
- Boomi Test Cloud
- Code Coverage Cloud
- Email
- ...
- 32bitConnecReg
- 64bitConnecReg

### Process Errors

Most Recent: 1h 6h 12h 1d

Time	Process	Account	Error Message
2014-12-15 03:01:	TEST-1851 WS SO	connectorregressi	Error invoking soap
2014-12-15 02:51:	TEST-1886 WS SO	connectorregressi	Error invoking soap
2014-12-15 02:40:	TEST-1849 WS Sin	connectorregressi	Severe errors occu
2014-12-15 02:35:	AUTOMATION Mast	connectorregressi	[Server.userExcept

### Throughput (GB)

Most Recent: 7d 1m 3m 6m 1y Max

### Pending Executions

Time	Process
2014-12-16 02:48:	TEST-47 Salesfor
2014-12-16 02:48:	TEST-46 -- Salest
2014-12-16 02:47:	(c_)O..., Salest

### Execution Count (Thousands)

Most Recent: 7d 1m 3m 6m 1y Max

### Document Count (Thousands)

Most Recent: 7d 1m 3m 6m 1y Max