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# What is BigML?

BigML is consumable, programmable, and scalable Machine Learning software that makes it easy to solve Classification, Regression, Cluster Analysis, Anomaly Detection, and Association Discovery prob-lems using several patent-pending technologies.

BigML helps you address these problems “end-to-end”. That is, you can seamlessly transform data into actionable models that can be used as remote services or locally embedded into applications to make predictions.

BigML can be used either:

* Interactively through an easy-to-use web interface with an intuitive workflow and several patent-pending visualizations.
* Programmatically using a REST API with open-source bindings for a multitude of programming languages such as Python, Java, Node.js, and even an open-source command line tool called BigMLer.

BigML provides its software as a turnkey, multi-tenant machine learning service that is fully managed, auto-scaled, maintained, updated, upgraded, backed-up, and kept running smoothly and securely.

BigML combines the power of comprehensive Machine Learning with the benefits of a cloud-based infrastructure, such as Amazon Web Services (“AWS”), enabling businesses to easily build a multitude of predictive applications cost-effectively with high scalability, flexibility, and reliability.

In BigML’s Software-as-a-Service offering at  [https://bigml.co](https://bigml.com)m, everything listed above, including fu-ture improvements, is bundled into either:

* A simple monthly subscription, with discounts if the service is contracted using quarterly or annual plans.
* Pay-as-you-go pricing, with no minimum fees and no term-based contracts required.

For companies with stringent data security or privacy requirements, BigML offers Private Deployments that can run in a Virtual Private Cloud (VPC) or on-premises with dedicated servers to meet enterprise-grade requirements.

# BigML Private Deployments

As a complement to BigML’s multi-tenant Software-as-a-Service (SaaS) delivery model, BigML also offers private, single-tenant deployments. BigML Private Deployments include all the functionality of the BigML multi-tenant version and can be implemented in three ways: Managed VPC, Self-Managed VPC, and On-Premises.

## Choosing a Private Deployment Type

**Managed VPC**

For companies that want a secure private deployment but are otherwise comfortable with the SaaS delivery model which eliminates infrastructure and maintenance tasks, and can instead focus on using BigML’s machine learning service.

**Self-Managed VPC**

For companies that already operate their own cloud-based infrastructure and feel comfortable managing a new cloud-based service inside their own private cloud.

**On-Premises Deployment**

For companies that wish to manage and maintain a BigML installation behind their corporate fire-wall. BigML will be installed on your servers and your IT Staff will have full system control.

A subscription to a BigML Private Deployment includes all the regular improvements and bug fixes re-leased by BigML for the backend, API, front end, and command line layers. Improvements and fixes are regularly made available, except for critical fixes which are provided immediately. All the new features, including new modeling algorithms provided by BigML on its multi-tenant version are implemented immediately for managed VPCs and made available quarterly for self-managed VPCs and on-premises deployments.

A BigML Private Deployment includes the full API making it easy to develop custom applications or integrate BigML directly with any in-house or third-party systems. HTTP requests to BigML’s API are SSL-encrypted, so your data is always secure.

Any of the three Private Deployment options can be complemented with technical support plans that offer different levels of assistance and training. Please see  [Chapter 7](#page24) on page  [19](#page24) for more details.

When choosing one of the three deployment options, businesses should consider not only the total cost of the solution, but also the customization needs, scalability, redundancy, and integration requirements. The following  [Table 2.1](#page8) summarizes the differences between the BigML Private Deployment options

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  |  | |  |  | | | |  | | |  |  | | |
|  | **Feature** | |  | **Managed VPC** | |  | **Self-Managed VPC** | | | | **On-Premises** | | |  |  | | |
|  |  |  |  |  |  |  |  |  |  |  | **Deployment** | | |  |  | | |
|  |  |  |  | | |  |  | | |  |  | | |  |  | | |
|  | Pricing |  | Yearly Subscription | | |  | Yearly Subscription | | |  | Yearly Subscription | | |  |  | | |
|  |  |  |  | | |  |  | |  |  |  | | |  |  | | |
|  | Hosting |  | Securely hosted | | | by | On your cloud | |  |  | On your servers | | |  |  | | |
|  |  |  | BigML | |  |  |  |  |  |  |  |  |  |  |  | | |
|  |  | |  | | | |  | |  |  |  | | |  |  | | |
|  | BigML Updates | | Automatically included | | | | Every month | |  |  | Every 3 months | | |  |  | | |
|  |  | |  | | | |  | |  |  |  | | |  |  | | |
|  | BigML Upgrades | | Automatically included | | | | Every month | |  |  | Every 3 months | | |  |  | | |
|  |  |  |  | | |  |  | | | |  | | | |  |
|  | BigML | Critical | Immediately applied | | |  | Immediately provided | | | | Immediately provided | | | |  |
|  | Fixes |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
|  |  | |  |  |  | |  |  |  |  |  |  | |  |  | | |
|  | Requirements | | No | customer | specific | | An | account | with | a | Hardware | and | | soft- |  | | |
|  |  |  | technology | | require- | | BigML supported cloud | | | | software that | is | physically | |  | | |
|  |  |  | ments beyond a modern | | | | provider | |  |  | installed on | | your | own |  | | |
|  |  |  | browser and high band- | | | |  |  |  |  | company’s |  | computer | |  | | |
|  |  |  | width Internet | |  |  |  |  |  |  | systems |  |  |  |  | | |
|  |  |  |  | |  |  |  | |  |  |  |  |  |  |  | |
|  | Access | Restric- | IP List | |  |  | IP List or VPN | |  |  | IP List |  |  |  |  | |
|  | tion |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
|  |  | |  | | |  |  | | |  |  | | |  |  | | |
|  | Customization | | 1-5 business days | | |  | 5-10 business days | | |  | 7-15 business days | | |  |  | | |
|  | and configuration | |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
|  |  | |  |  |  |  |  |  |  |  |  | | |  |  | | |
|  | Maintenance Fee | | In | accordance | with | the | In | accordance | with | the | In accordance with | | | the |  | | |
|  |  |  | number of instances | | |  | number of instances | | |  | number of instances | | | |  | | |
|  |  |  |  | | | |  | | | |  | | | |  | | |
|  | Support |  | From 24x7 to next busi- | | | | From 24x7 to next busi- | | | | From 24x7 to next busi- | | | |  | | |
|  |  |  | ness day in accordance | | | | ness day in accordance | | | | ness day in accordance | | | |  | | |
|  |  |  | with your specific sup- | | | | with your specific sup- | | | | with your specific sup- | | | |  | | |
|  |  |  | port agreement | |  |  | port agreement | |  |  | port agreement | | |  |  | | |
|  |  |  |  | |  |  |  | |  |  |  |  |  |  |  | | |
|  | Cloud | Operation | Monthly billed | |  |  | N/A | |  |  | N/A |  |  |  |  | | |
|  | Fee |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |

### Managed VPCs

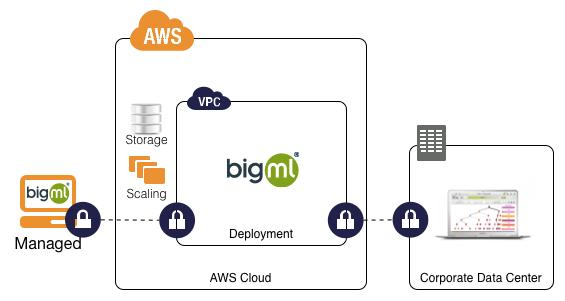


Figure 2.1: Managed VPC

BigML’s Managed VPCs provide transparent access to resizable computing capacity in the cloud and virtually unlimited cloud-based data storage without needing to install or configure any hardware or software.

With Managed VPCs, BigML will use the best methods to safeguard your data at the application, access, and data center layers. We not only rely on AWS’ extraordinary security, but we take extra steps to ensure that your data is kept private and safe including:

* BigML ensures that access to VPCs is restricted and constantly monitors them to lock them down in case of threat or attack.
* Only a small group of authorized personnel in BigML have access to VPCs and they will not look at your data under any circumstances.
* BigML implements authentication, access content processes, and audit controls that minimize the risk of external compromise.
* BigML uses exclusive S3 buckets, IAM users, and SSH keys for each customer.
* **Note:** In case of disaster, it will be possible to rebuild the VPC including the data and application,in another location within a reasonable amount of time.

BigML will directly pay for your AWS costs and bill them monthly to your business.

**PROS**

* No initial investment required in infrastructure.
* For multi-instance deployments, catastrophic events will have almost no effect on the service op-eration. This is because your BigML VPC will be hosted using redundancy and other special safeguards within multiple AWS availability zones.
* Cluster topology is elastic and dynamically adapted, making this solution, in many cases, the most cost-effective.

**CONS**

• Integration with other on-premises applications can be more difficult.

### Self-Managed VPCs

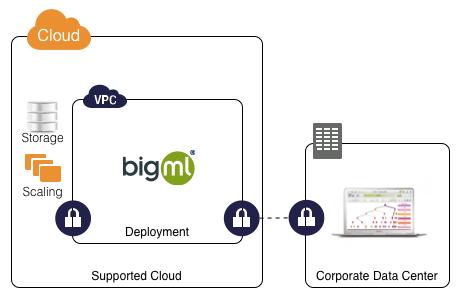


Figure 2.2: Self-Managed VPC

Self-Managed VPCs are a way to leverage your pre-existing cloud infrastructure, policies, and investment. In this case, your company pays for the usage of BigML within your own cloud, managed according to your own requirements. BigML will assist you during the VPC configuration and deployment steps.

**PROS**

* Everything resides under control of your own IT Staff.
* No separate monthly billing needed for cloud services.

**CONS**

* Extra services are required to monitor, operate, and maintain.
* Extra steps for initial installation and configuration are required.
* Extra time for regular updates and upgrades needs to be allocated.