Leading Security Company Becomes Data Driven with Hadoop-as-a-Service

Customer Case Study with Mammoth Data

Cyber attacks have now become a common occurrence and the number of attacks continues to increase. Security is all about the protection of information, the protection of on-line transactions and the protection of people. The key is to enforce protection as quickly as possible and that means ingesting a huge volume of security metrics to detect anomalies as they happen.

The customer, a leading provider of security solutions and antivirus software had a primary focus to leverage existing data using big data technologies to improve product quality and consumer experience. The customer needed to sort through large amounts of data from a huge range of devices including firewalls and intrusion prevention detection. For this customer, security relies heavily on analytics to detect security breaches and anomalies quickly.

With an integrated solution from Hortonworks and Mammoth Data, the customer is now able to do analytics and processing on an increasingly large dataset – scaling from terabytes to petabytes of data. Now with a proper infrastructure the customer is able to proactively and preemptively plan and avoid major threats using historic and real-time antivirus data.

Customer Challenges

Cyber attacks on the rise

Cyber attacks are continually on the rise and enterprises are struggling to keep up with the volume and variety of attacks.

The customer's antivirus and security products need to remain on top of the latest security threats in order to provide best-of-breed protection.

Huge volume of security metrics

There are numerous devices generating information and data that needs to be protected. The customer needs the ability to scale data processing from petabytes to terabytes of data in order to protection information and transactions.

Rapid detection and response

Enterprises and consumers need security protection as quickly as possible to avoid any data breaches or disruption in service.

The customer's business depends on quick and proactive protection provided by its antivirus products.

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The Solution
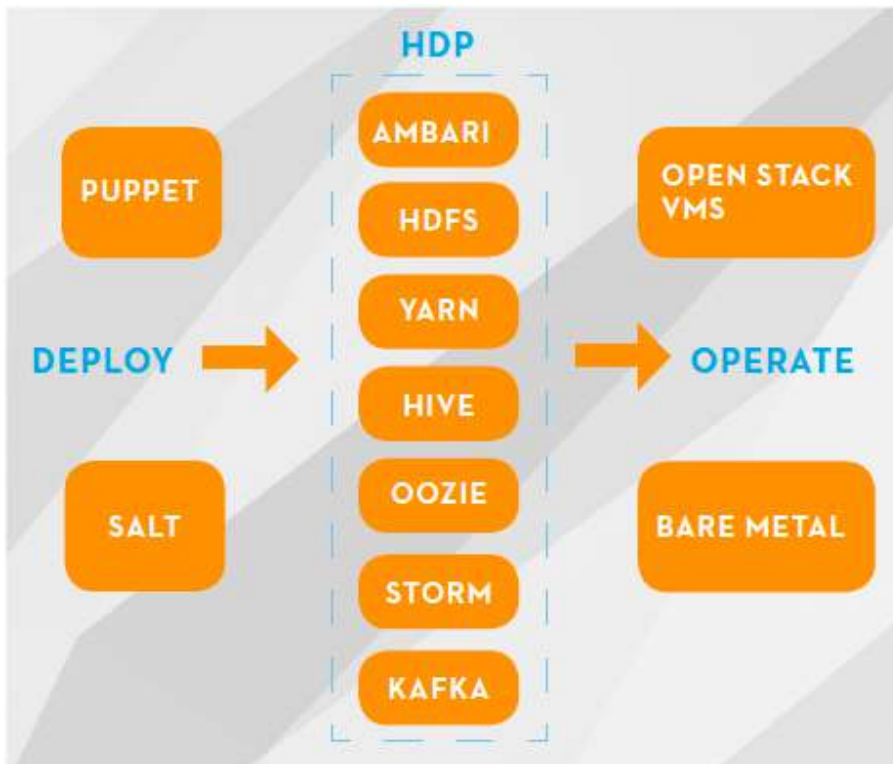
HDP Deployment Workflow

On-Demand Deployment

- The customer chose Hortonworks and Mammoth Data to develop Hortonworks Data Platform (HDP) clusters with on-demand deployment in data centers around the world.

Automation

- Mammoth Data and Hortonworks developed automation for HDP cluster deployment and operation in the first data center and are now expanding to a second data.
- The robust architecture of the Hadoop ecosystem was extended with deployment tools like Salt and Puppet.

Cloud Infrastructure

- The project also included an internal cloud infrastructure that consists of multiple HDP clusters enabling various teams to analyze data from around the globe.

Hadoop as a service

- The main objective was to develop the architectural to provide Hadoop as a service. Providing this service gave the customer access to the analytic tools of HDP. Storm, Hive and MapReduce were also used.

About Mammoth Data

Mammoth Data is a Big Data consulting firm specializing in Hadoop, NoSQL databases and designing modern data architectures that enable companies to become data-driven. By combining cutting-edge technologies with a high-level strategy, we are able to craft systems that capture, organize and turn unstructured information into real business intelligence.

Mammoth Data was founded as Open Software Integrators in 2008 by open-source developer, evangelist and now president Andrew C. Oliver. Mammoth Data is headquartered in downtown Durham, North Carolina.

Hortonworks. We do Hadoop.

Hortonworks is a leading commercial vendor of Apache Hadoop, the open source platform for storing, managing and analyzing Big Data. Hortonworks Data Platform, our distribution of Apache Hadoop, provides an open and stable foundation for enterprises and a growing ecosystem to build and deploy Big Data solutions.

Hortonworks is the trusted source for information on Hadoop, and together with the Apache community, Hortonworks is making Hadoop an enterprise data platform. Hortonworks provides unmatched technical support, training and certification programs for enterprises, systems integrators and technology vendors.

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