TECH BRIEF

Tintri Analytics

Tintri Analytics is a cloud-based SaaS offering that provides organizations the flexibility to meet shifting consumption and investment needs and model future capacity and performance requirements. Experience the difference Tintri's VMstore storage systems with intelligent management of data and analytics provide to meet demands and transform plans to meet your business needs.

Real-Time Predictive Analytics and Machine Learning for Intelligent Storage

Ensuring your applications always have access to sufficient compute and storage resources is complex, requiring advanced modeling scenarios to make precise predictions. Only Tintri Analytics ensures you always have the information you need to make the right decisions based on the historical compute and storage usage patterns of all your applications. Tintri's ability to gather data about individual virtual machines and containers at a granular level from both compute and storage, provides administrators an all-round picture of an application in an instant. Tintri Analytics leverages over three years of real-time VM- and container-level data, including historical and current performance and resource usage statistics on every application in your VMStore environment.

Powered by Apache Spark, Elasticsearch, and machine learning, Tintri Analytics uses these data points to quickly extract actionable insights and enable powerful predictive analytics and planning capabilities. Tintri Analytics leverages historical application performance, capacity, and working set data to precisely predict future needs for both storage and compute. You can even model "what-if" scenarios to assess the impact of changes before they are implemented.

Tintri Analytics leverages Artificial Intelligence for IT Operations (AIOps) and machine learning to find hidden insights, without needing explicit programming. In any machine learning model, the quality, quantity, and depth of available data, combined with the quality of the model, directly impact the accuracy and usefulness of the predictions. Tintri Analytics collects data at the right level of abstraction – the virtualized or cloud application – with up to three years of historical data. The very high quality of these inputs, combined with the power of AIOps and machine learning algorithms, provide powerful insights and future trend analysis.

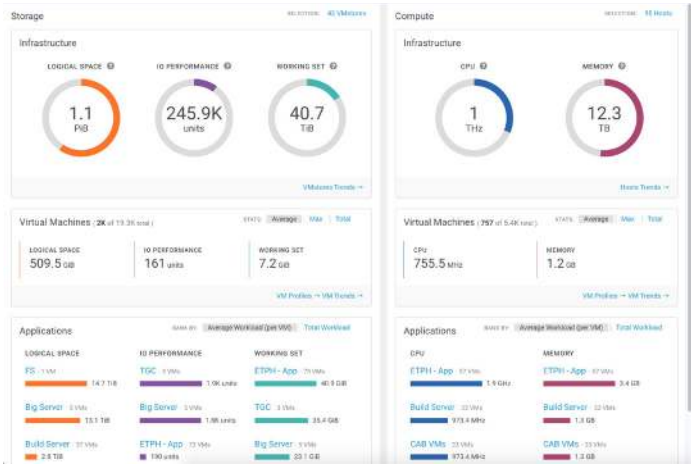

Figure 1 – Tintri Analytics Dashboard

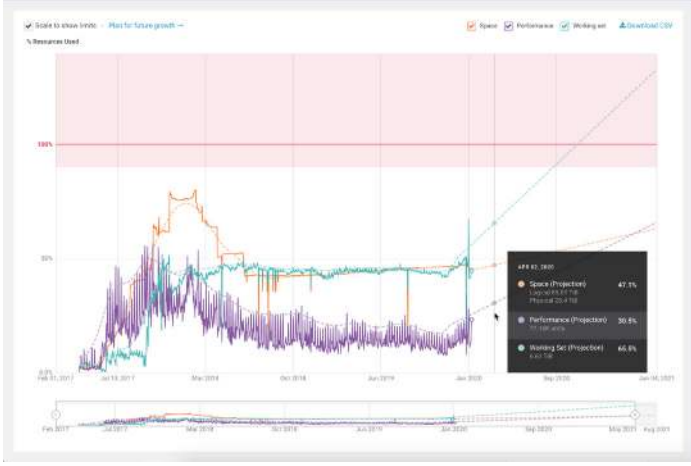

Figure 2 – Compute and Storage Usage Trends and Projections

Compute and Storage Planning and Forecasting

Tintri Analytics ensures organizations stay on top of their changing needs. It can:

- Predict your storage capacity and performance needs, as well as compute CPU and memory as far as 18 months into the future.
- Profile application types and then model how changes in application number or behavior would impact your compute and storage footprint.
- Model your capacity, performance, and throughput to account for organic growth and new projects in your environment.
- Establish application profiles for desktops, SQL servers, databases, custom virtual applications, etc.
- Conduct what-if analysis to understand the consequences of potential changes to your enterprise cloud for next 18 months.

Planning next quarter's and next year's needs won't take a crystal ball—just a few minutes with Tintri Analytics.

Tintri
Intelligent Infrastructure

Why Tintri Analytics?

Tintri Analytics benefits include:

- Lower Operating Expenses: Save time and reduce operating expenses for resource management and planning to a few simple clicks.
- Proactively Manage Storage: Visualize and anticipate future growth based on per-application data to keep your VMstore systems operating in top condition.
- Maximize Uptime and Performance: Simulate what-if scenarios to for each department and plan future compute and storage needs to meet business objectives.

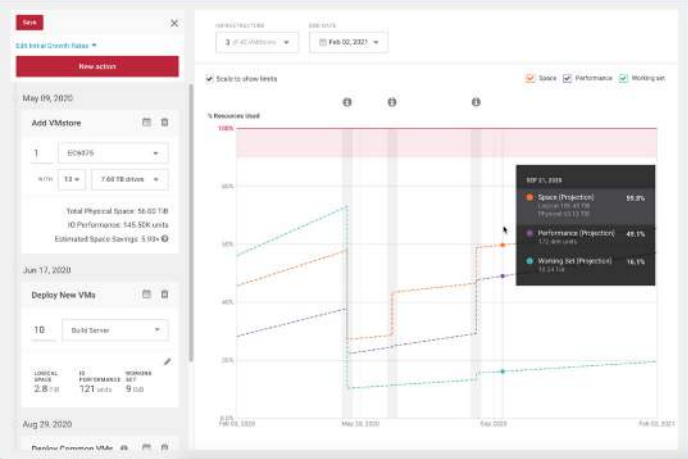

Figure 3 – Do what-if analysis with Planner

Tintri Analytics provides application insights so you can create application profiles based on compute and storage in just a few clicks. Application profiles will help you better understand the complete storage and compute requirements for all your virtual desktops, SQL servers, Oracle databases or other applications. You can drill into a profile to see which specific applications are outliers: well below or above average. The next time you receive a request to add applications, you don't have to guess or deploy and hope; instead, model the exact impact and make a decision about whether or not you can accommodate the request with complete confidence.

Experience Different! For more information on how Tintri Analytics and VMstore can turbo-charge your business success through a simple, intelligent infrastructure, visit tintri.com/vmstore. Or better yet, contact your Tintri representative or infrastructure partner and request a demo of Tintri Analytics.

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