ConverSight

Compute Farm

Maximizing Computational Efficiency with ConverSight.

Datasheet

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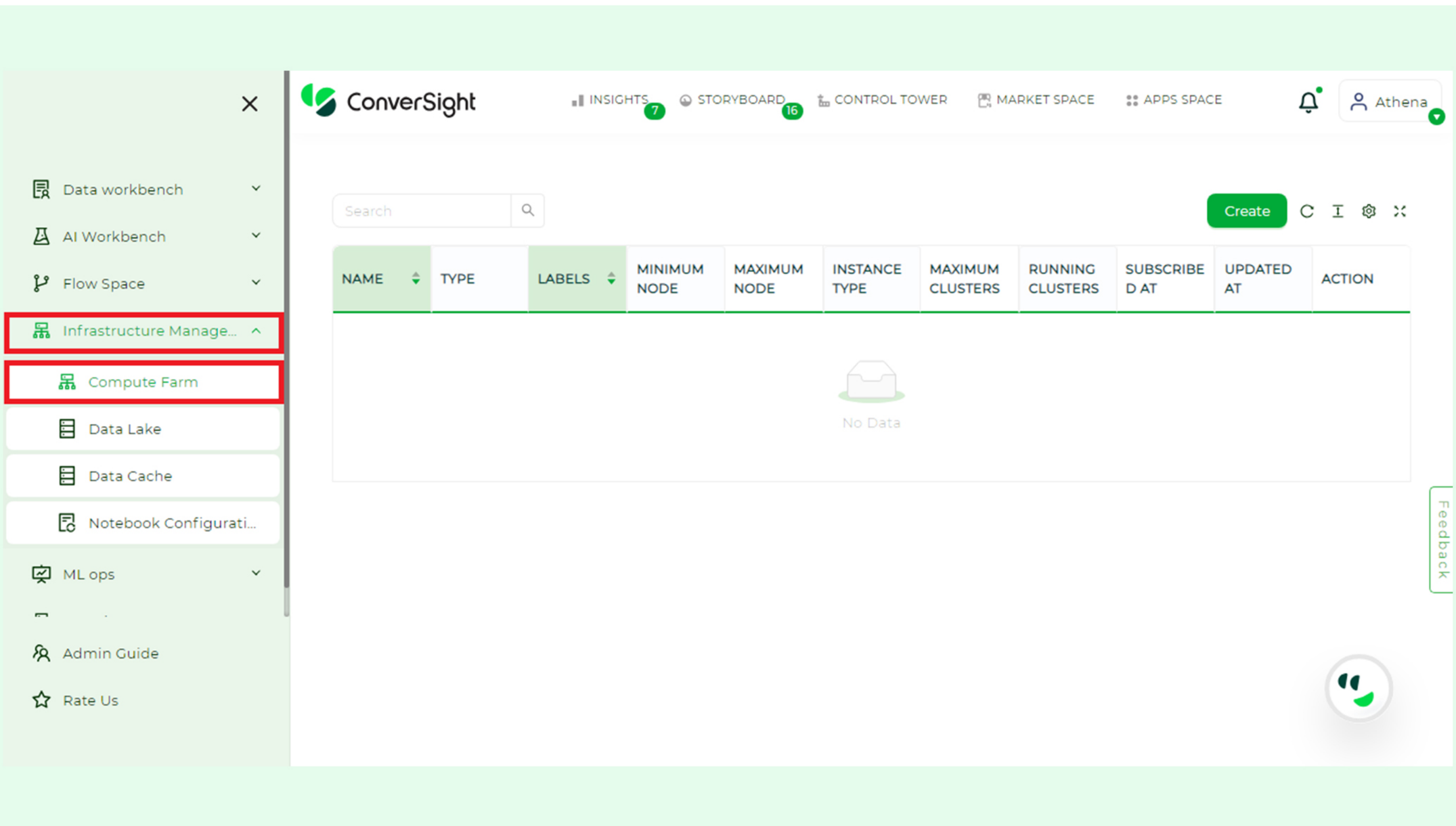
I. Introduction

Embark on a journey into the innovative world of ConverSight's Compute Farm, where we revolutionize the process of cluster creation and management to enhance the efficiency of your data infrastructure. This comprehensive datasheet serves as your initial glimpse into Compute Farm, a powerful feature that simplifies cluster creation and enables seamless flow execution, unlocking limitless potential for your business. By combining a diverse range of virtual instances within cloud environments, our clusters are comprised of interconnected nodes. This distinctive amalgamation provides a flexible solution tailored to meet your unique requirements. With Compute Farm, the possibilities are endless.

2. Getting Started

2.1 Accessing Compute Farm

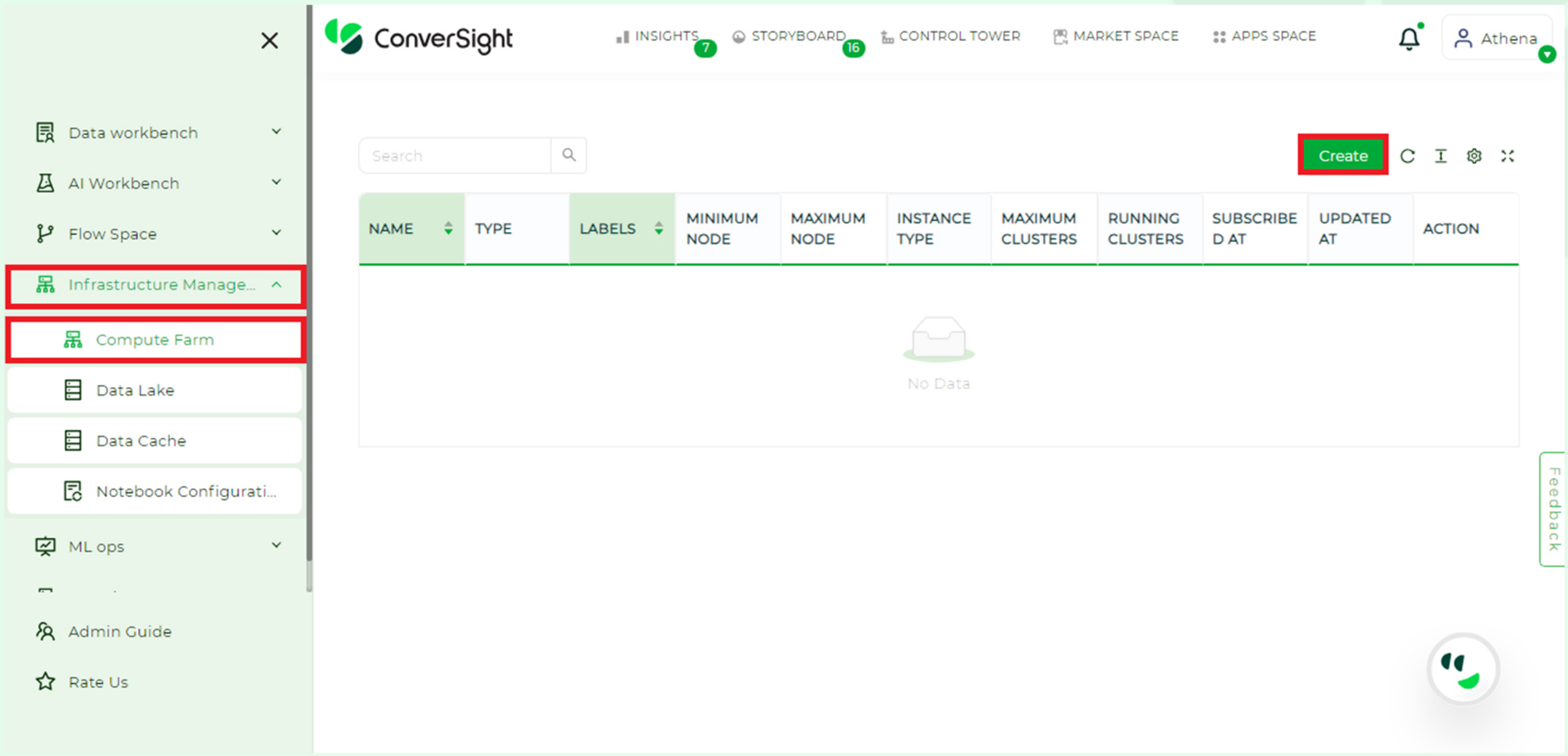
To access the Compute Farm in the ConverSight Platform, navigate to the configuration section and select **'Compute Farm'** under **'Infrastructure Management'**



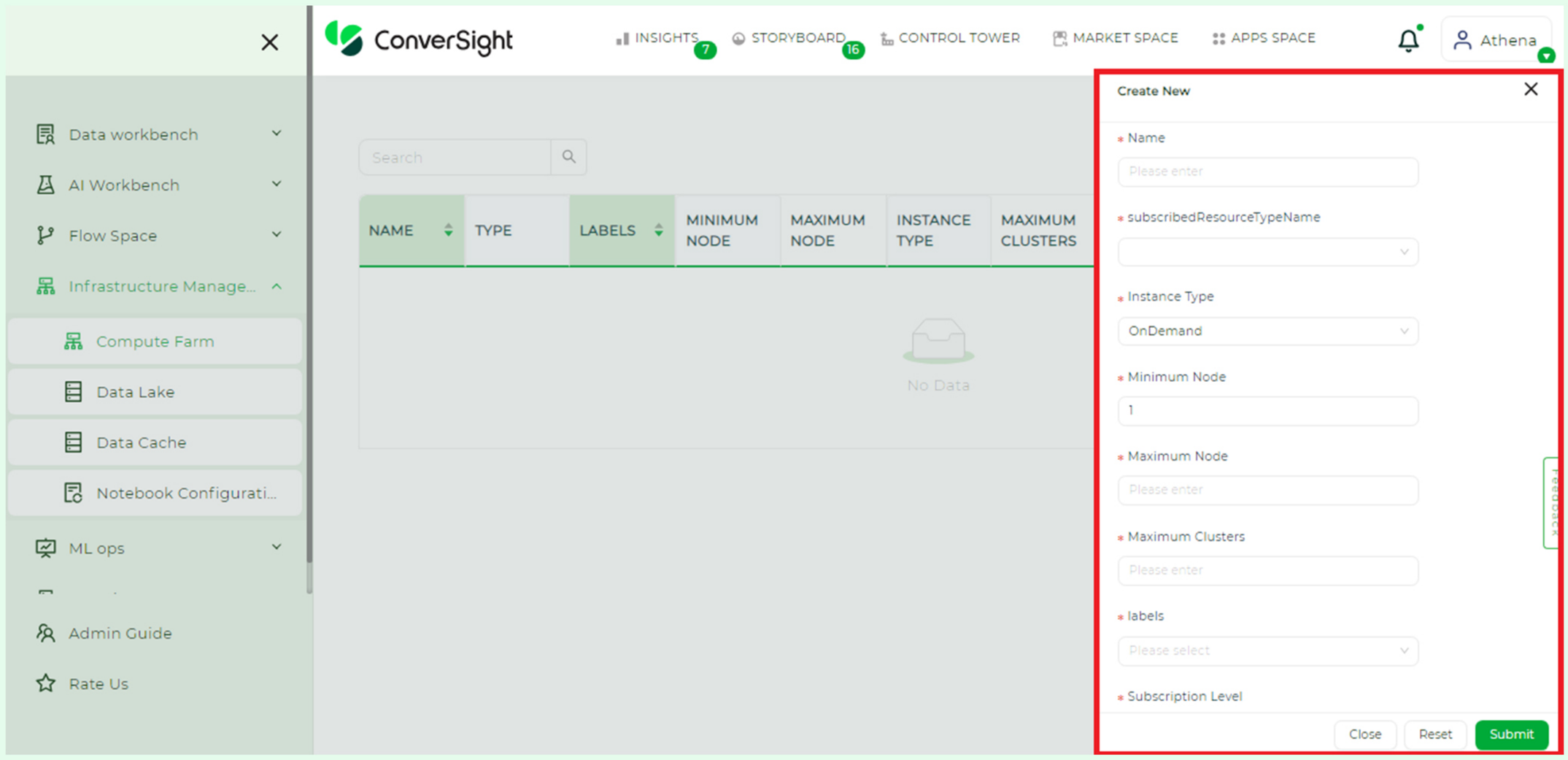
2.2 Creating Clusters

With the Compute Farm feature, users can create and manage Clusters of computing resources. This functionality allows users to group together multiple servers or virtual machines to form a unified system. During the Cluster creation process, users can specify the desired Cluster specifications. These specifications include the number of nodes or machines in the Cluster. By specifying these Cluster specifications, users can customize the Cluster to meet their unique requirements and workload demands.

By clicking on the **‘Create’** button on the Compute Farm page, you can create a Cluster.



Upon clicking the **‘Create’** option, the following screen will be displayed as shown in the image below.

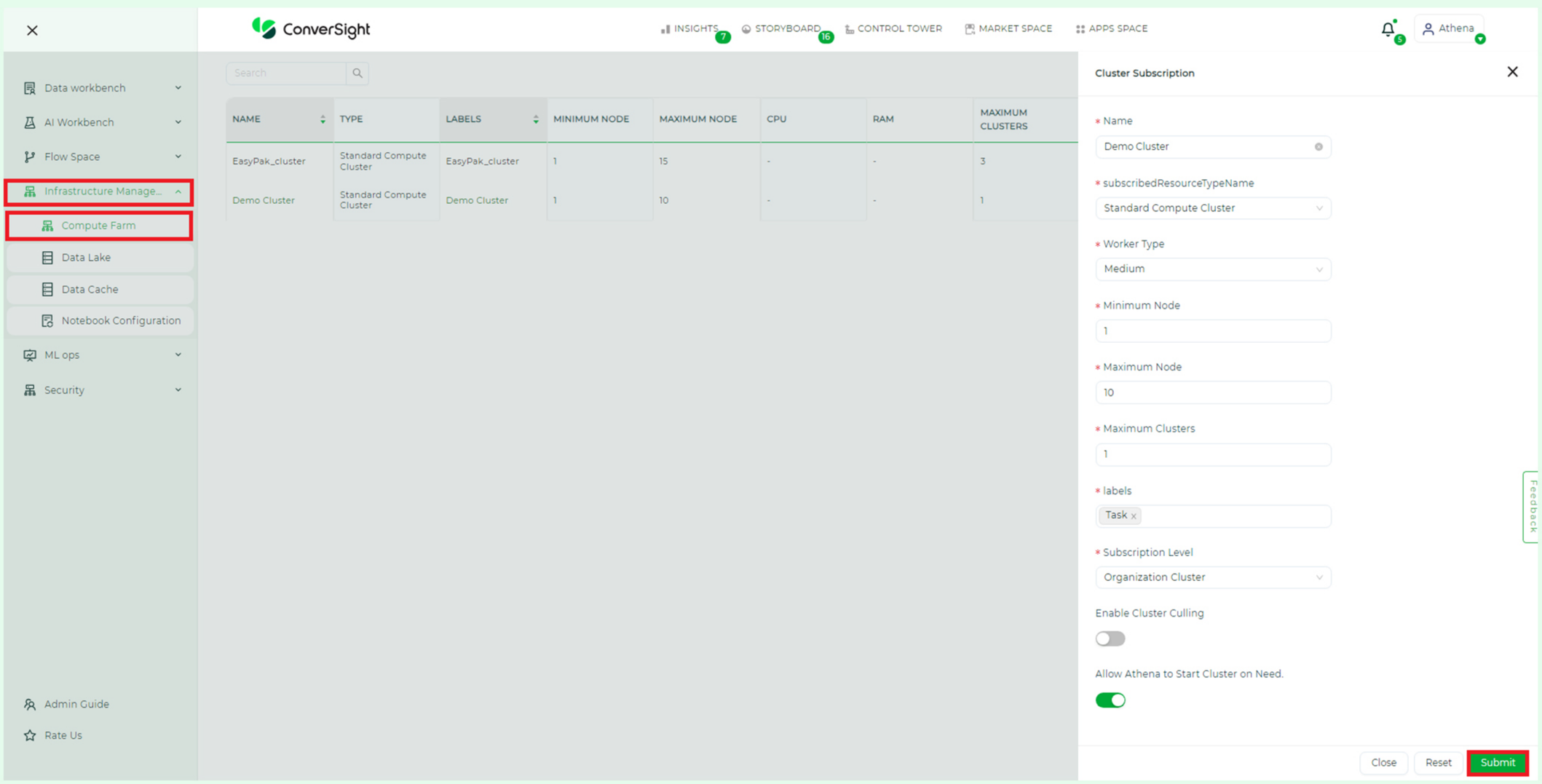


To create a Cluster, users must provide various inputs including the name, subscribed resource type name, worker type (visible when the subscribed resource type name is selected), minimum and maximum nodes, maximum clusters, labels, subscription level and Cluster culling. These inputs collectively define the configuration and characteristics of the Cluster, allowing users to customize it according to their specific requirements.

NAME	SPECIFICATION
Cluster Name	The cluster name must be alphanumeric with length ranging from 3 to 32 characters.
Subscribed Resource Type Name	The types of Cluster types are: By default, we use Standard Computer Cluster. GPU compute cluster is used for high level analytics.
Instance Type	Depending on the specific needs, users have the flexibility to choose between On-Demand instances or Spot instances. On-Demand instances are ideal for applications requiring uninterrupted, predictable availability whereas, Spot instances are suitable for flexible workloads that can tolerate interruptions.
Minimum Nodes	Minimum number of nodes required to run the flow.
Maximum Nodes	Maximum number of nodes required to run the flow.
Maximum Clusters	Maximum number of clusters required to run the flow based on its size and complexity.
Labels	You can add labels to classify or identify the clusters.
Subscription Level	There are three cluster subscription levels. Platform Level: (Specific to all users using ConverSight Platform). Organization Level: (Specific to an Organization). User Level: (Specific to Individual Users).

Enable Cluster Culling	The Cluster Culling feature provides an automated mechanism for the termination of Clusters within a predetermined timeframe, alleviating the burden of manual intervention and incurred costs of running Clusters when not in use.
Allow Athena to Start Cluster	Users can enable Athena to start a Cluster automatically depending on user-specific requirements.

After entering the necessary details, simply click the **‘Submit’** button to initiate the creation of the Cluster.

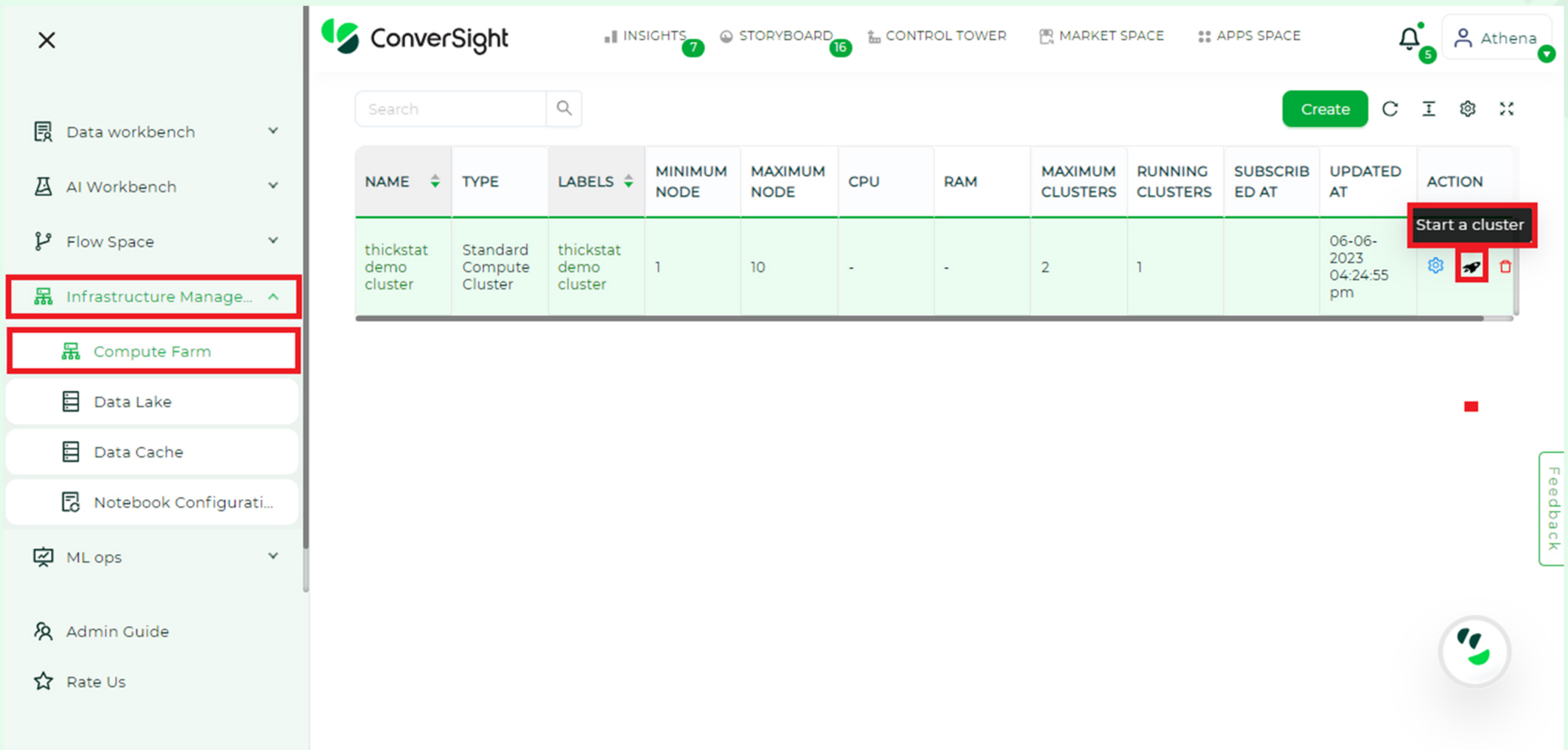


3. Cluster Mangement

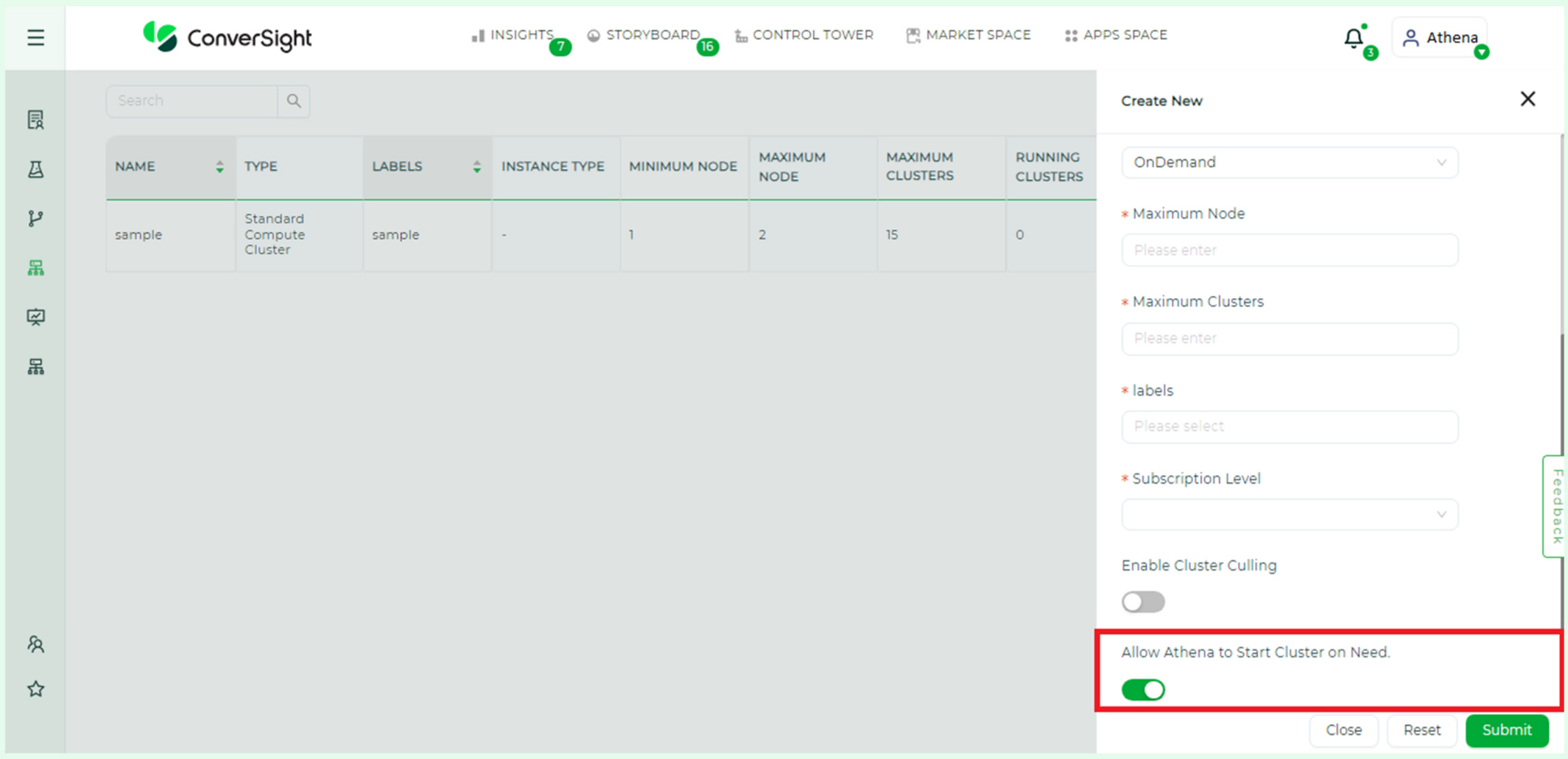
In the ConverSight platform, users have the flexibility to take control of Clusters by initiating them manually or allowing Athena to start a Cluster automatically based on needs. Furthermore, users can customize the specifications of existing Clusters, monitor Cluster management activities and remove Clusters when required. These robust functionalities empower users to efficiently manage Clusters and seamlessly perform desired operations within the platform. With ConverSight, users have the capability to optimize their Cluster management experience.

3.1 Running a Cluster

Users can run a Cluster in the ConverSight platform by clicking on the Rocket icon, when you hover over the **‘Rocket’** icon users can view the popup that says, **‘Start a Cluster’**.

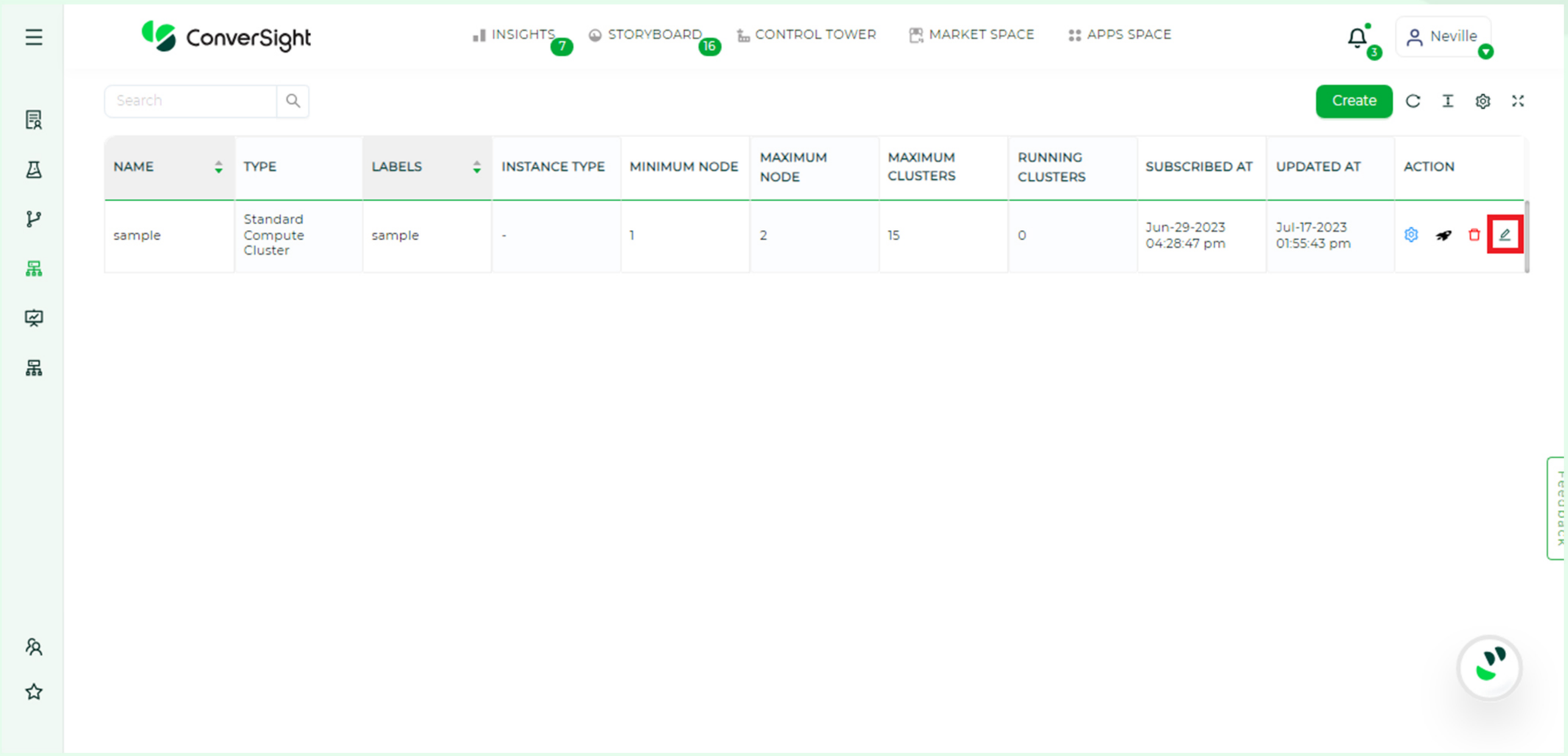


By enabling the **‘Allow Athena to Start Cluster on Need’** option while creating a Cluster in Compute Farm, users can run clusters on Demand for a workflow.

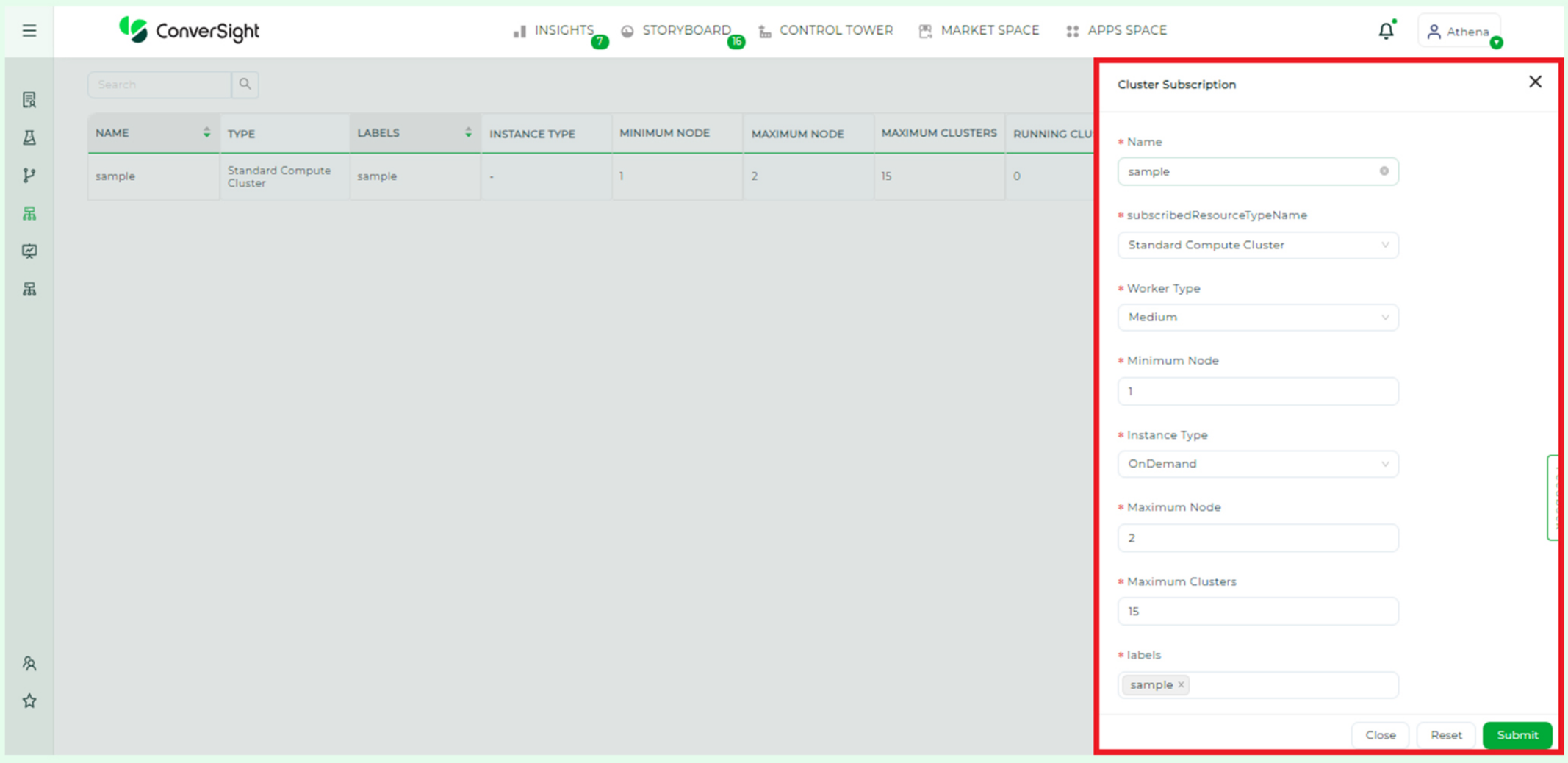


3.2 Updating Clusters

After creating a cluster in ConverSight, users have the flexibility to update or edit the cluster specifications at any time. To accomplish this, simply click on the **'Edit'** icon in the actions menu and make the necessary adjustments according to your specific needs.

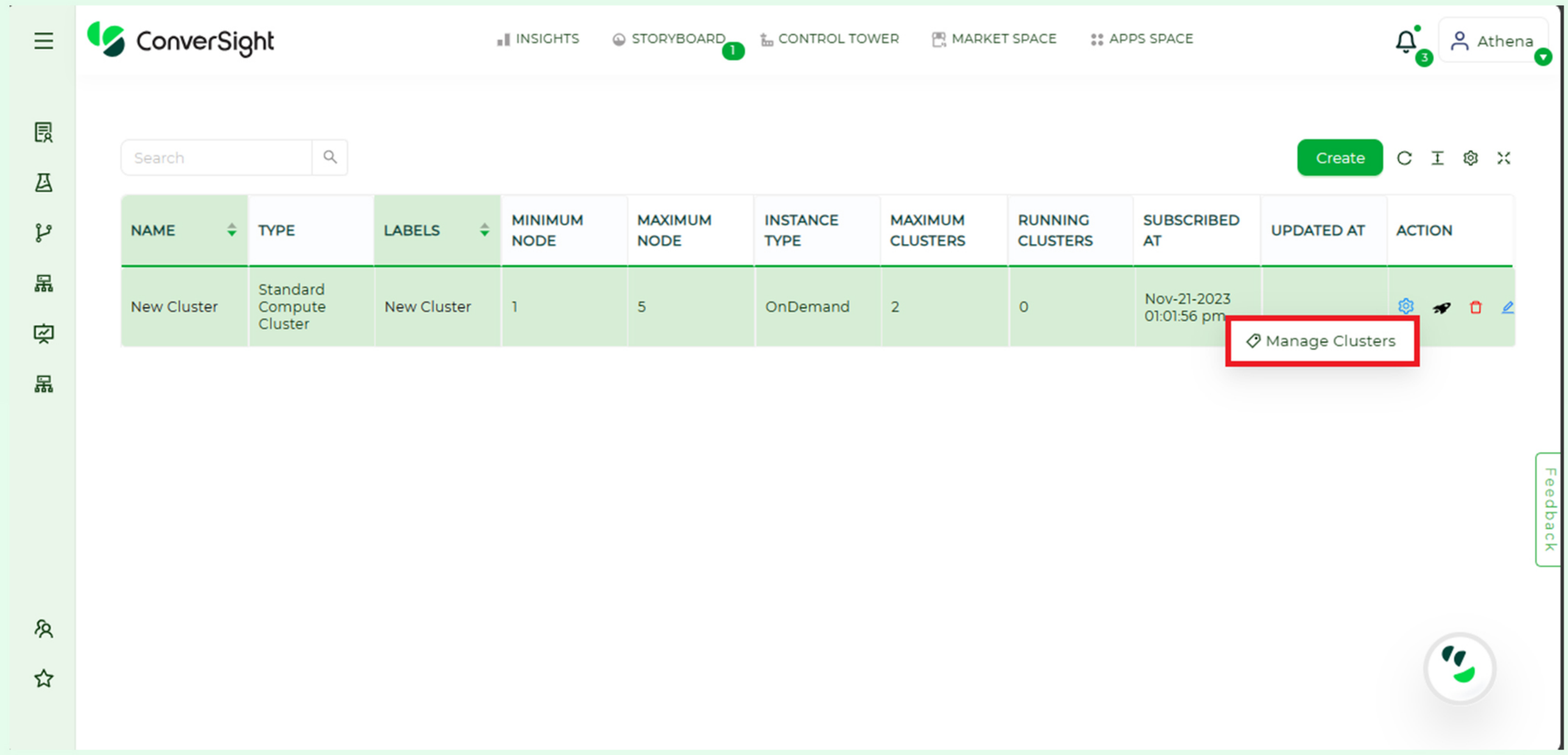


When you click the **'Edit'** icon, it will open the following screen where users can easily make the necessary adjustments according to their specific needs and click on the **'Submit'** button.

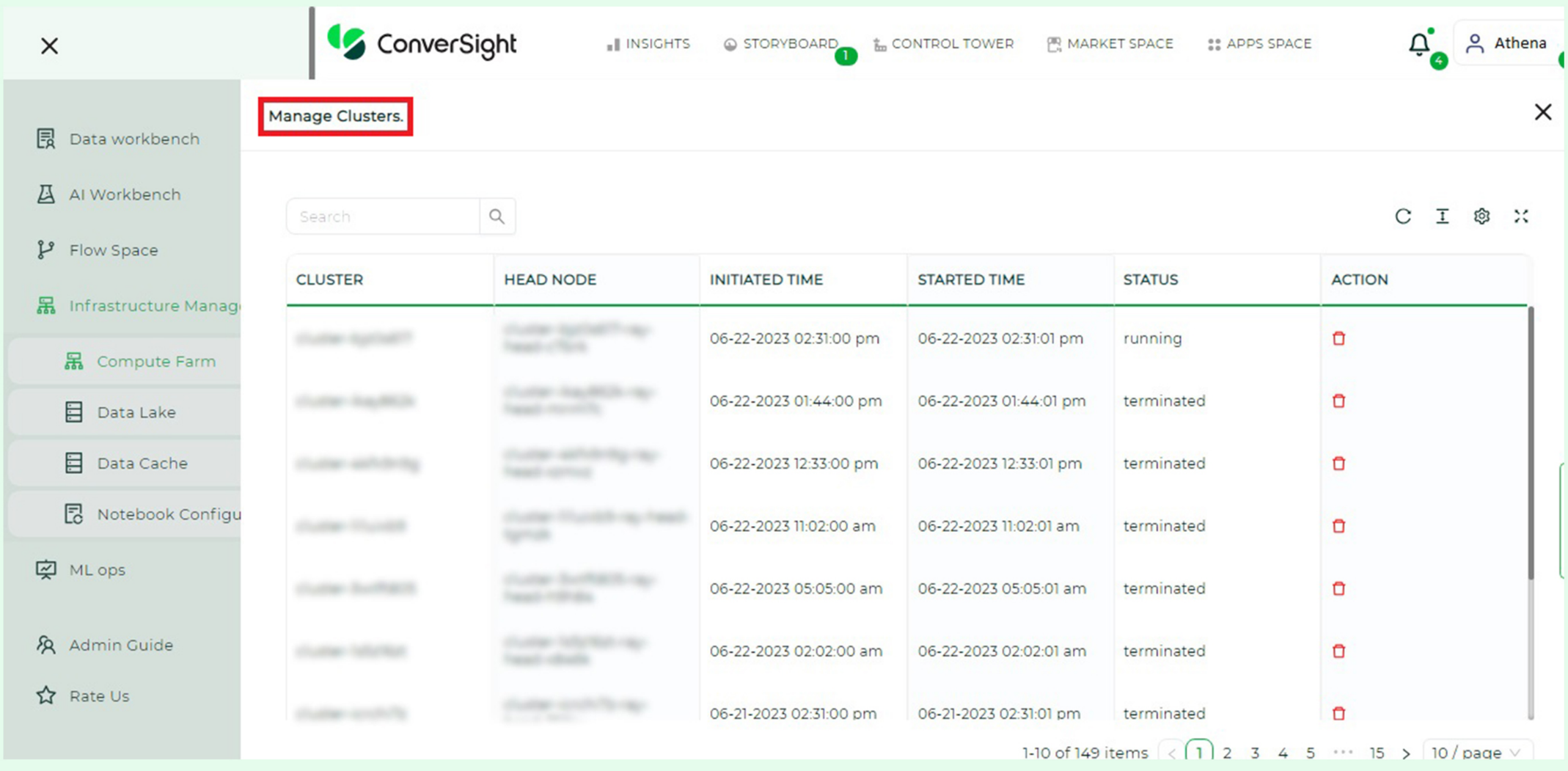


3.3 Manage Clusters

By hovering over the settings icon, users can trigger a popup labeled **'Manage Clusters'**, which provides access to a detailed view of both terminated and currently running Clusters. The Clusters are displayed in a tabular format, showcasing information such as the Cluster name, head node, initiation time, start time, status and available actions. Clicking on the **'Manage Clusters'** option grants users comprehensive visibility and control over their Clusters within the platform.

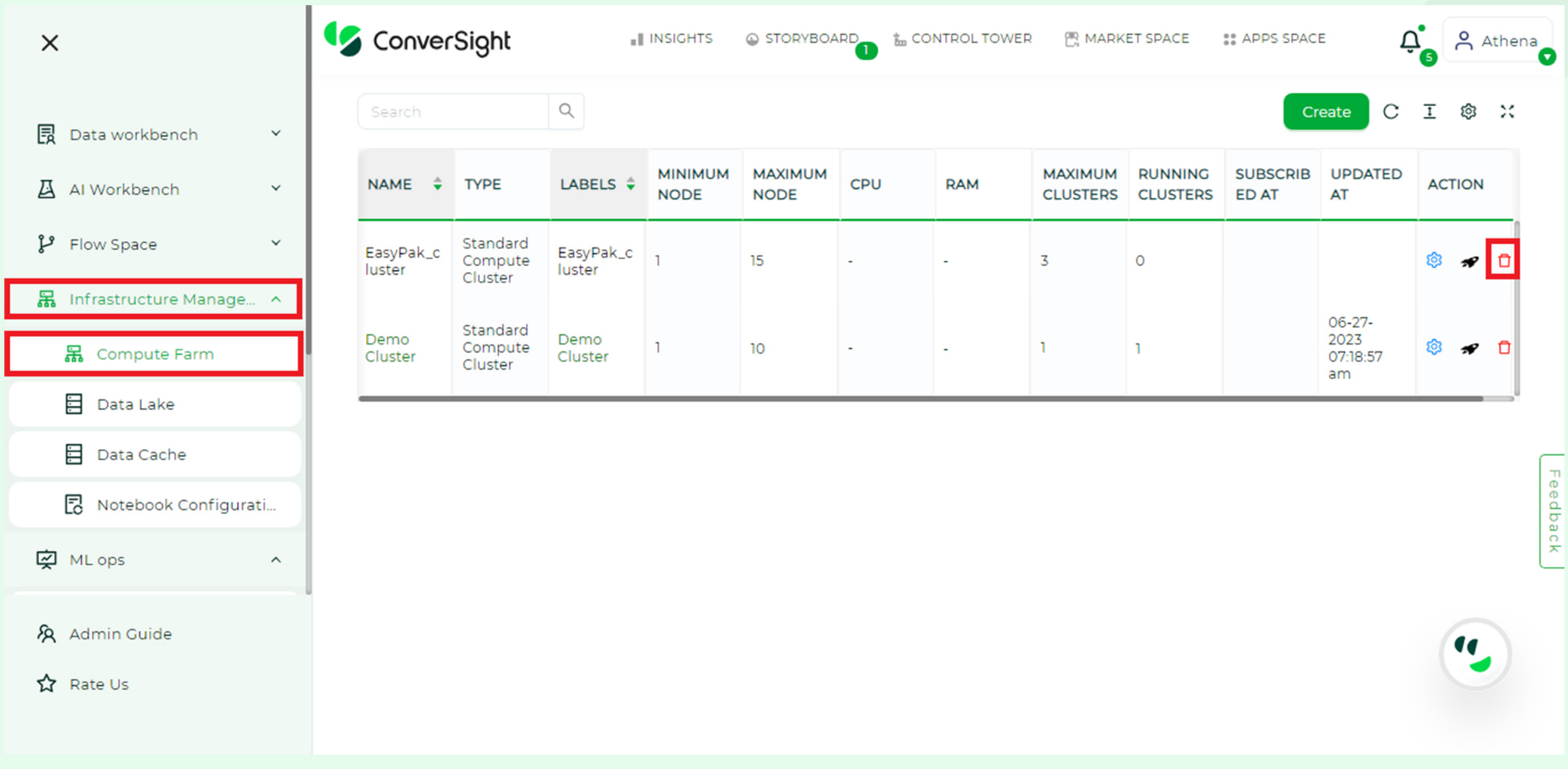


The Delete icon, located within the Action menu of Manage Clusters, serves the purpose of terminating a running Cluster.



3.4 Deleting a Cluster

To delete a Cluster permanently, users must terminate all running clusters and then use the **‘Delete’** icon on the Compute Farm page which displays all Clusters.



4. Conclusion

ConverSight's Compute Farm offers a powerful solution for optimizing data infrastructure. With customization, Compute Farm empowers organizations to achieve greater success in infrastructure management. Leveraging this powerful platform, users are empowered to effortlessly tailor Clusters to align with their specific requirements and workload demands. Compute Farm serves as a gateway to a comprehensive array of accessible Cluster management functionalities, placing full control at users' fingertips. With ConverSight, businesses can unlock the true potential of their Clusters, harnessing computing efficiency and maximizing data utilization to drive their success. Experience enhanced control, seamless customization and unparalleled performance with ConverSight's cutting-edge Compute Farm.

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About ConverSight

ConverSight's Adaptive Analytics platform uses conversational AI, Natural Language Processing and machine learning to converge the distance between humans and data through data stories, presenting the meaning of data in the most effective, personalized and efficient form possible. ConverSight's patented AI business assistant, Athena, connects distributed databases to answer questions and Augment the consumers through 4 key functions: Information on demand, Automated Story Telling, Proactive Insights, and Recommended Actions.

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