

Unsupervised chooses FusionAuth, saving \$150k in engineering costs for development and maintenance of an auth system

Unsupervised needed a standards based solution that could integrate with their customers' upstream identity providers

THE CHALLENGE

Unsupervised is a machine learning platform that automatically analyzes and discovers the most important patterns in a company's data without requiring human guidance or supervision. They take their algorithms directly to the location of the customer's data and therefore always deploy their software into their customers' environments.

Unsupervised was using a combination of django and a homegrown oauth solution for authentication, authorization, and user management. The company wanted to focus on their product instead of having to build out a new auth system.

Due to their unique data governance needs, Unsupervised was looking for an auth system that satisfied numerous compliance requirements as well as one that could be self-sufficient in disparate cloud environments. Additionally, Unsupervised needed a solution that could seamlessly plug in to their customers' upstream identity providers, such as Azure Active Directory or Okta using industry standards.

THE SOLUTION

Unsupervised found that FusionAuth's 24/7 support, standards compliance, API flexibility, and Kubernetes integration were exactly what they were looking for in an authentication provider. After selecting FusionAuth, the development team now has one authentication system to code against, with all the complexity and diversity of client auth systems abstracted away. FusionAuth allows them to focus on their core business logic. They also enjoy the flexibility FusionAuth offers in terms of development, automation, and scalability.

FusionAuth's adaptability allows Unsupervised to implement various features, such as user search, in a manner that matches their customer needs. For example,

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Industry - Machine Learning

Challenges

- Needed an auth system that met numerous compliance requirements
- Was searching for a solution that could be self-sufficient in disparate cloud environments
- Wanted to seamlessly plug in to their customers' upstream identity providers

Solution

- Abstracted away all the vagaries of their clients' auth systems with FusionAuth
- Automated configuration of customer cluster deployments
- Utilized FusionAuth's scalability

Results

- Saved months of development and testing as well as ongoing maintenance efforts
- Saved at least \$150k in yearly overhead from not having to hire a senior engineer
- Focused on the actual effort and shielded from fighting with upstream identity providers

many of their customers don't have millions of users or need to run complex user searches. Leveraging FusionAuth's database search engine instead of Elasticsearch not only reduced the deployment size but also management overhead, making their overall solution much simpler to deploy and maintain.

Unsupervised also automates developer environment setup via Kickstart, which makes it easier to have consistent auth configuration for every engineering team member. They also use FusionAuth's APIs to automate configuration of customer cluster deployments.

An added bonus? Unsupervised never has to worry about scaling:

"FusionAuth is able to achieve a higher scale than we ever have to rely on. We don't feel like we're ever going to cap out in terms of the number of users that could be supported."

-Justin Davis, Head of Engineering, Unsupervised

"FusionAuth allows us to remain focused on the actual effort and shields us from fighting with upstream identity providers in strange environments that we're not familiar with. Allowing [FusionAuth] to be a known base is very freeing mentally. We are much more confident that FusionAuth will implement the authentication system correctly compared to our homegrown, quasi-maintained version."

Justin Davis, Head of Engineering,
Unsupervised

THE RESULTS

When Unsupervised was evaluating auth solutions, they knew that they did not want to be writing their own auth layer inside of their platform. Unsupervised estimates that by choosing FusionAuth, they've saved months of development and testing as well as on-going maintenance efforts. They estimate they're saving at least \$150k in yearly overhead from not having to hire a senior engineer to own this component. With FusionAuth, Unsupervised essentially ignores auth and can focus on their core product.

Today, Unsupervised seamlessly integrates FusionAuth into their clients' upstream identity providers. This has helped greatly reduce their deployment time and complexity. To achieve this, Unsupervised grants access to the FusionAuth admin panel to allow their customers to configure the upstream identity provider. This approach eases the burden of onboarding new customers and frees up the Unsupervised operations team for other work. Problems that they would otherwise bump into in their customers' private clouds can now be resolved by the operators who run those environments.

About Unsupervised

Unsupervised helps teams find hidden insights in their complex data. They have built the first AI based on unsupervised learning, which automatically discovers the most important patterns in data without requiring human guidance or supervision. - <https://unsupervised.com/>

About FusionAuth

FusionAuth was designed and built by security and identity experts with over 50 combined years experience developing software for Fortune 500 companies. It installs in minutes and delivers Customer Identity and Access Management including login, registration, SSO, MFA, emails, localization, reporting and powerful user management features. FusionAuth has been battle-tested in high-volume industries from finance to gaming and deployed on servers around the globe. Learn more at: <https://www.fusionauth.io>