



US non-profit fully secures infrastructure with **Aspire's AWS continuous support and monitoring**





Challenges:

- Manual deployment
- Application infrastructure needed modification
- No notification delivery system
- Poor and outdated security practices
- Lack of data protection and data recovery systems

Solution:

AWS continuous support and monitoring

About the Customer

ACT is an American non-profit organization (NTEE classification B90, Educational services, per the IRS). The client is a mission-driven group dedicated to helping people achieve educational and workplace success. With more than 60 years of research and headquartered in Iowa, the client is a leader in college and career readiness. ACT also has a standardized test designed to assess high school students' academic achievement and college readiness. As of 2019, 52% of US high school graduates had taken this test.

The Need

The client required AWS support and re-building and continuous monitoring of their infrastructure. They struggled to manage all their servers and applications. One of the biggest challenges was to secure the entire infrastructure. They also sought assistance to modify their application infrastructure and rebuild their applications using CI/CD tools. They wanted to implement a notification system to alert stakeholders across the development and deployment lifecycle.





Results:

- Improved application security by mandating use of VPN for access
- Improved performance with immediate resolution of vulnerabilities
- Faster and more frequent releases with continuous deployment
- Zero downtime with robust cloud server support
- Unused services sorted and removed from applications
- Streamlined troubleshooting technical product issues with ticket raising
- Improved support process with knowledge base implementation
- Improved data protection

Aspire's Solution

After a thorough analysis of the client's infrastructure and needs, Aspire's experts zeroed in on two major challenges — quick resolution of bugs and increased security. The team helped the client able to proactively monitor and containerize their applications using AWS Fargates.

Aspire's infrastructure and application support team collaborated with the client's contractors to research and document all issues and also provide all possible solutions. This reduced resolution time for bugs and issues. Aspire's cloud server support ensured zero down time.

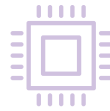
The team modified the client's infrastructure and made necessary changes to app servers and DB servers. Unused services were removed and a simple ticketing system was introduced for troubleshooting technical product issues.

With regards to the client's security requirements, Aspire helped them with scanning servers, implementing Pritunl VPN, managing the firewall and provisioning their account. Apart from the cloud support and server monitoring, Aspire also provided support in form of our Linux experts.

The team coordinated with the client with at least 3 sync-up calls every week along with regular application flaws discovery calls to ensure that both sides were on the same page. This reduced the turnaround time and allowed a faster time-to-market.



Technology Snapshot



- » **Cloud provider-** AWS
- » **Operating system-** Amazon Linux
- » **Container orchestration-** AWS Fargates
- » Pritunl VPN for security
- » Datadog for monitoring



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