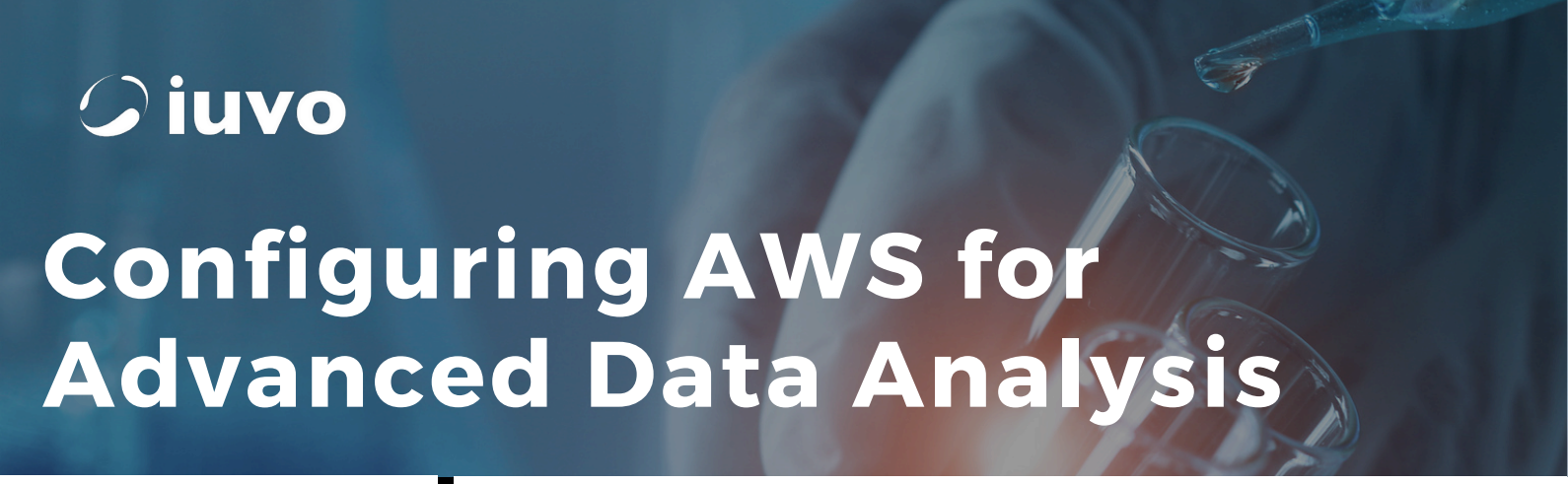


Configuring AWS for Advanced Data Analysis

YEAR:
2021

INDUSTRY:
Biotech

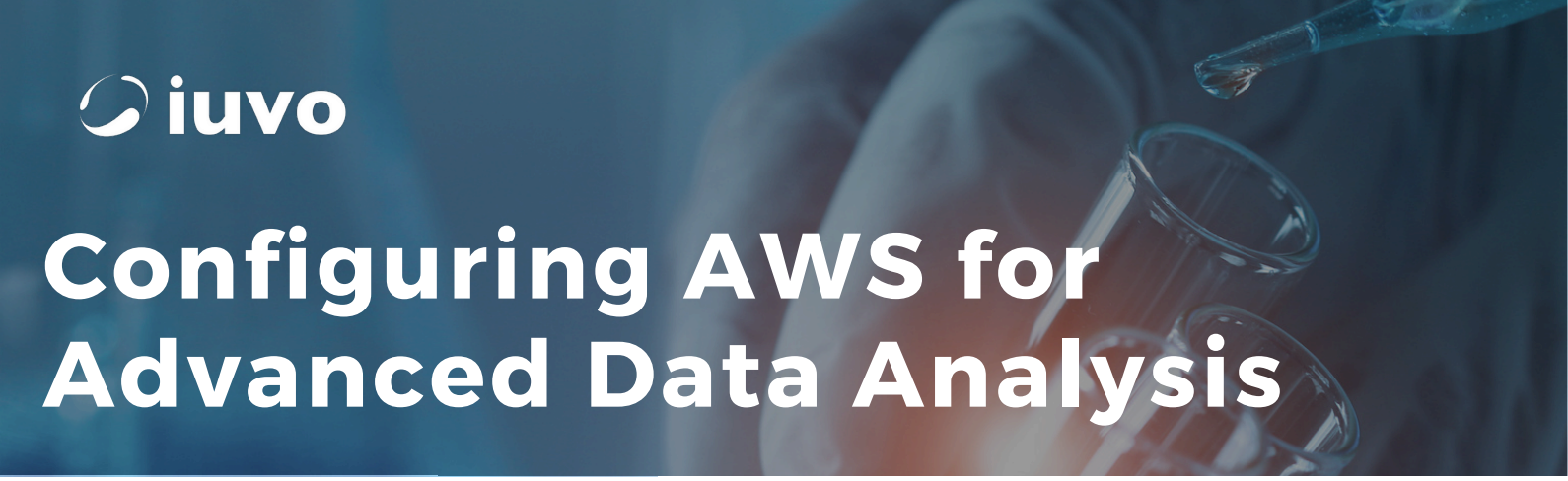
EMPLOYEES:
145

About iuvo

iuvo is a Boston-based IT consulting company and managed services partner offering IT services and solutions to help businesses scale, increase efficiency and solve other business problems. Since 2007 we've been disrupting the MSP industry to bring exceptional service to co-managed and in-house IT teams. Our core belief is technology should elevate your business results. Managed Services, IT Consulting, IT Strategy, Virtual CIO, DevOps, Business Continuity, Cybersecurity and more are part of our offerings to make our clients successful.

Issue

A long-time client was experiencing issues with the amount of emails they were receiving. They were getting sent an email anytime something ran—resulting in upwards of 40,000 event-driven emails per month. This influx of emails also meant that issues could easily be missed, since many had begun ignoring the emails due to the sheer amount and frequency. Had the system stopped working completely, the client likely would have missed that as well.



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Configuring AWS for Advanced Data Analysis

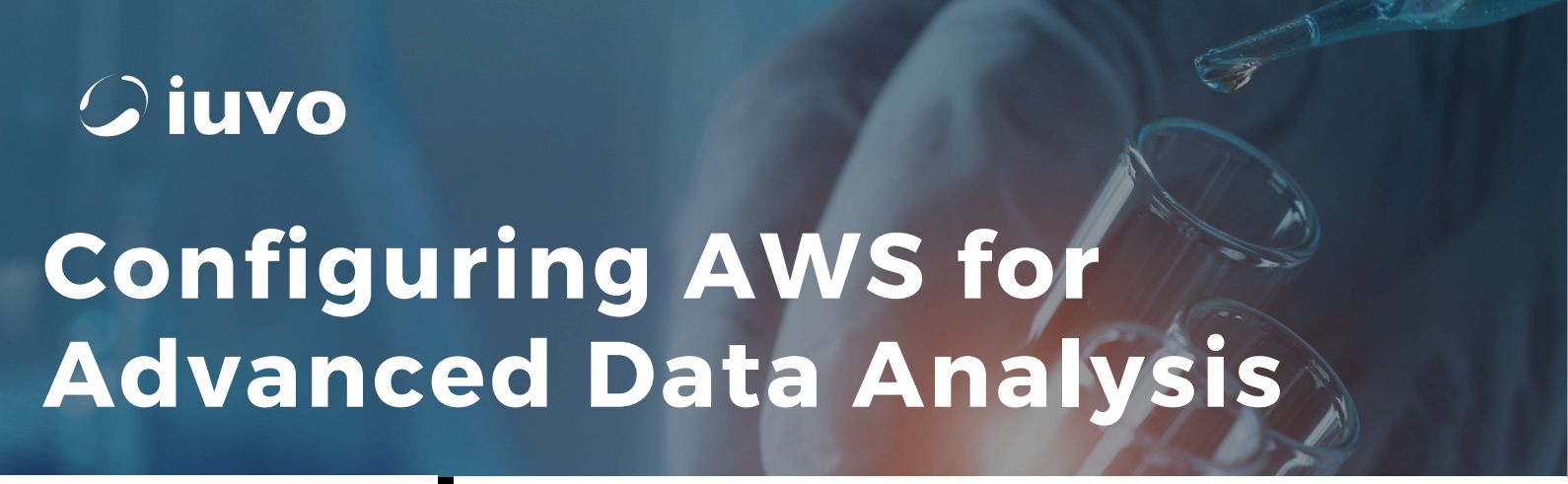
Solution Overview

The organization had invested in two Windows servers and three Linux servers for their AWS environment but were not able to effectively use them. When iuvo came in, we set to work connecting Azure to AWS using Azure Active Directory Domain Serivces (AADDS) and a secure site-to-site VPN. This helped solve the problem of difficult end user remote access VPN authentication, with consistent usernames and passwords, as well as addressing the original issue of installing SSL certificates.

Next, we focused on connecting the Linux servers to the newly accessible AADDS. Bioinformaticians rely heavily on data to do their job, and in the current environment, they could not access the data they needed. To fix this, we connected the Linux servers to AADDS, which allowed existing user accounts to login to the Linux servers—something that had previously been impossible.

The Linux servers were originally installed for data analysis, which was done with RStudio. Connecting them to AADDS enhanced their ability to do this, and, in turn made it easier to publish R-based applications to RConnect (formerly RShiny).

“In other words,” Ed Perkins, Principal Consultant at iuvo, and key member of the project team said, “We made it so a non-statistics expert could run these easily through a web interface using their single sign on credentials and access the info they need.” Now, bioinformaticians can login easily, access the information they need, perform the necessary analysis, and hopefully drive more revenue down the line.



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Configuring AWS for Advanced Data Analysis

Increased security

Cost savings

Increased productivity

Better collaboration

Impact

For the organization, the main impact they experienced was increased security and productivity. Before hiring iuvo, they were unable to use the technology they invested in, which was wasting time and money. With the Azure – AWS site-to-site VPN we set up, the client is now able to take full advantage of their Linux and Windows environments using AADDS. Bioinformaticians can log in quickly and easily to collaborate on data analysis. The client is also able to worry less about security risks, thanks to the improved remote access VPN and our work to solve the SSL certificate issue.

Conclusion

iuvo is happy to help you grow and empower your business—whether you need someone to co-manage your IT environment or take it over entirely. Averaging 24+ years of experience, our consultants will work with you to create a uniquely tailored solution to your problem. We work with organizations across the Startup, Biotech, Life Sciences, and many other sectors. Contact us to learn more.