Cloud-Enabled Transformation of Accounting Operations

Empowering Secure, Remote Access and Streamlined Management for a Modern Accountancy Firm

aws PARTNER Advanced Tier Services

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EXECUTIVE SUMMARY

A rapidly expanding accountancy firm faced significant operational and security limitations due to their legacy LAN-based TallyPrime accounting system. The inability to support remote or browser-based access, lack of centralized monitoring, and non-existent backup protocols restricted business flexibility and exposed the company to considerable data security risks.

AIRISH Technologies partnered with the client to design and implement a state-of-the-art cloud solution leveraging Amazon Web Services (AWS) and TSplus. This comprehensive deployment provided the firm with secure remote access, real-time system monitoring, advanced backup capabilities, and robust security measures. As a result, the client gained the flexibility to adapt to a more modern, efficient, and secure work environment with minimal disruption to operations.

THE CHALLENGE

The firm's traditional system presented several critical obstacles:

- **Absence of Remote and Browser Access**: Employees could not connect to TallyPrime outside the office, hindering remote work and timely decision-making.

- **No Centralized Monitoring or Logging**: Troubleshooting, auditing, and proactive system maintenance were difficult due to the lack of insights and visibility.

- **Weak Security Posture**: With no SSL encryption and basic user controls, sensitive financial data was vulnerable to interception and unauthorized access.

- **Inadequate Backup and Disaster Recovery**: Data was at risk due to sporadic or manual backup routines with no automation or centralized management.

- **Scalability Bottlenecks**: The infrastructure made it hard to support growth, integrate new tools, or adapt to changing business needs.

These challenges directly impacted business continuity, exposed the firm to compliance risks, and made daily operations inefficient.

THE AIRISH SOLUTION

To address these obstacles, AIRISH Technologies designed and executed a robust, secure, and scalable cloud architecture using AWS and TSplus. The solution was delivered efficiently within three business days.

Solution Breakdown:

Cloud Hosting on AWS

- A Windows Server EC2 instance was sized and provisioned with ample EBS storage for reliable performance and data retention.

- Elastic IP assigned, linked via AWS Route 53 for simple and branded domain access.

Secure & Flexible Access with TSplus

- TSplus software enabled both browser-based and traditional RDP client connections.

- 8 unique user profiles were created, each with custom session restrictions to maintain granular control and privacy.

End-to-End Security

- SSL certificates were issued and managed using AWS Certificate Manager, ensuring encrypted access.

- IAM roles, security groups (SG), and network access control lists (NACLs) were enforced for least-privilege and perimeter security.

- Hardened Windows policies, disabled open RDP, and session timeouts reduced attack surface.

Comprehensive Monitoring

- AWS CloudWatch Agent was installed for real-time system, application, and user activity monitoring.

- Alerts and logs provided actionable insights to IT admins.

Automated and Manual Data Protection

- Manual EBS snapshots initiated, with future workflows for AWS Backup automation.

- All critical software configurations and templates were documented and stored securely.

THE BENEFITS

The impact of AIRISH Technologies' solution was immediate and multifaceted:

- **Remote Work Enablement:** Employees now have secure access to TallyPrime from any location, via browser or desktop, supporting modern flexible work arrangements.

- **Enterprise-Grade Security:** SSL encryption and IAM policies ensure financial data remains confidential and protected from threats.

- **Real-Time Transparency:** CloudWatch delivers live monitoring, alerting, and activity logs, aiding both technical support and compliance initiatives.

- **Business Continuity:** Automated and manual cloud backups protect against data loss and support rapid disaster recovery.

- **Operational Efficiency:** Cloud-native resources scale as the business grows, while built-in options (like scheduled resource auto-stop) reduce costs.

- **Rapid Deployment:** The entire migration, configuration, and testing cycle was completed within just 3 business days, with zero disruption to business activities.

- **Client Satisfaction:** Improved performance, access convenience, and security enhanced the employees' daily workflow and reduced administrative overhead.

By transforming the client's legacy infrastructure with a modern cloud architecture, AIRISH Technologies enabled the firm to confidently support its growing operations, adapt to new challenges, and protect its sensitive information. This case demonstrates the company's capacity for swift delivery of tailored, high-value digital solutions for demanding business needs.