WORKMATES

SAP Modernization for a
Metal Manufacturer

CUSTOMER CHALLENGE

A leading metal manufacturing enterprise sought to migrate its legacy SAP ECC system from a third-party data center to a scalable, secure, and highly available SAP S/4HANA environment on AWS. The organization faced challenges including complex data migration, system downtime, lack of infrastructure scalability, security concerns, business continuity risks, and difficulties with third-party integrations.

APPROACH

Workmates Core2Cloud designed and implemented a comprehensive SAP on AWS solution that included infrastructure provisioning, secure network design, SAP installation and configuration, data migration, and integration while focusing on scalability, security, and minimal downtime.

IMPLEMENTATION

1 Provisioned memory-optimized AWS EC2 instances (c5.16xlarge) across multiple Availability Zones for high availability.

2 Created an isolated VPC with secure private subnets and firewall rules.

3 Established VPN connections for secure access and IAM role-based access controls.

| 4	Set up Application Load Balancer to handle incoming SAP traffic.
5	Deployed AWS Systems Manager for administrative access management and recovery.
6	Implemented SAP-certified AWS Backint Agent for SAP HANA backup and restore to Amazon S3.
7	Enabled continuous monitoring via AWS CloudWatch and AWS CloudTrail for logging and compliance.
8	Developed sandbox environments to test data migration from SAP ECC to S/4HANA.

RESULTS

- **Achieved 60% increase in SAP system performance and 99.99% uptime.**

- **Improved business continuity with a recovery time objective (RTO) of 6 hours, down from a month.**

- **Saved approximately 20% in hardware replacement costs and maintenance efforts.**

- **Enhanced security with role-based access, VPN-enforced administrative access, encrypted communication, and tightly controlled database access.**

- **Scalable infrastructure supports current needs and future growth without compromising on reliability.**
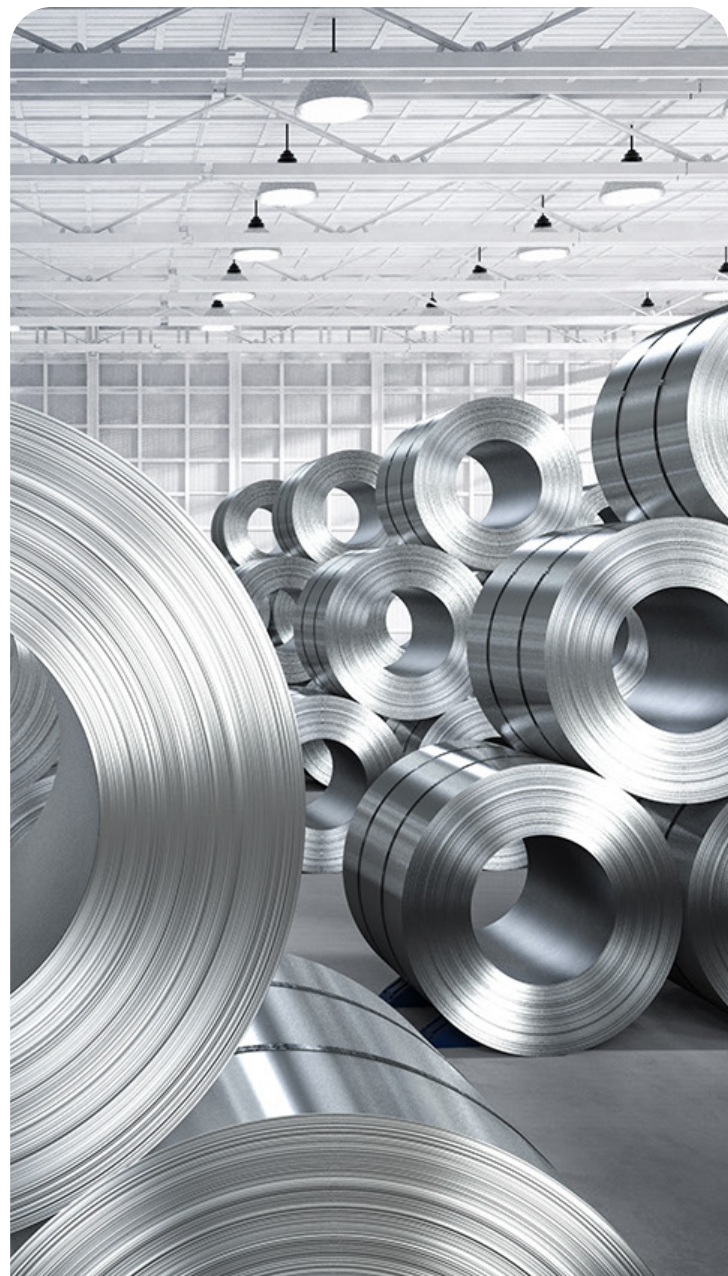
BUSINESS IMPACT

The migration empowered the enterprise with agile, resilient SAP infrastructure capable of scaling dynamically, boosting operational efficiency and strategic decision-making through real-time data availability. The improved uptime and reduced downtime risks strengthened business continuity and competitiveness in the metal production industry.

Workmates is a leading cloud-managed services and IT solutions provider, recognized as an AWS Premier Tier Services Partner—placing us among the top AWS consulting firms globally. Since 2018, we've helped businesses drive innovation and digital transformation with our team of 150+ AWS Certified Professionals, delivering expert solutions and exceptional results.

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