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# MACHINE MANUFACTURING

POWERED BY SAP ON AWS



**SONATA  
SCALABLE**  
THE PLATFORMATION™ COMPANY

## About the Customer

MAG Group designs and manufactures discrete machinery and industrial systems, including turning, milling, and honing machines, with a particular focus on automotive engine and chassis components.

MAG milling, cold forming and honing machines are used in industries including automotive, aerospace, e-mobility, agricultural machinery and commercial vehicles.

MAG machine tools are used in the automotive and e-mobility sectors to manufacture cylinder blocks and heads, crankshafts, shafts and wheels, steering knuckles, transmission and steering housings.

## The Challenge

*Provide a secure, cost-effective cloud solution with ERP to support manufacturing across multiple sites.*



# Our Solution

After evaluating multiple cloud providers, MAG Group engaged Sonata Software to implement cloud-based infrastructure supporting a robust ERP, plus managed services for a period after implementation.



## SAP

**SAP Quick Sizer** a web-based tool that helps translate business requirements into technical requirements used to arrive at SAP sizing

**SAP Solution Manager** (Solman) installed for centralized application management and administration to support, operate and monitor SAP system

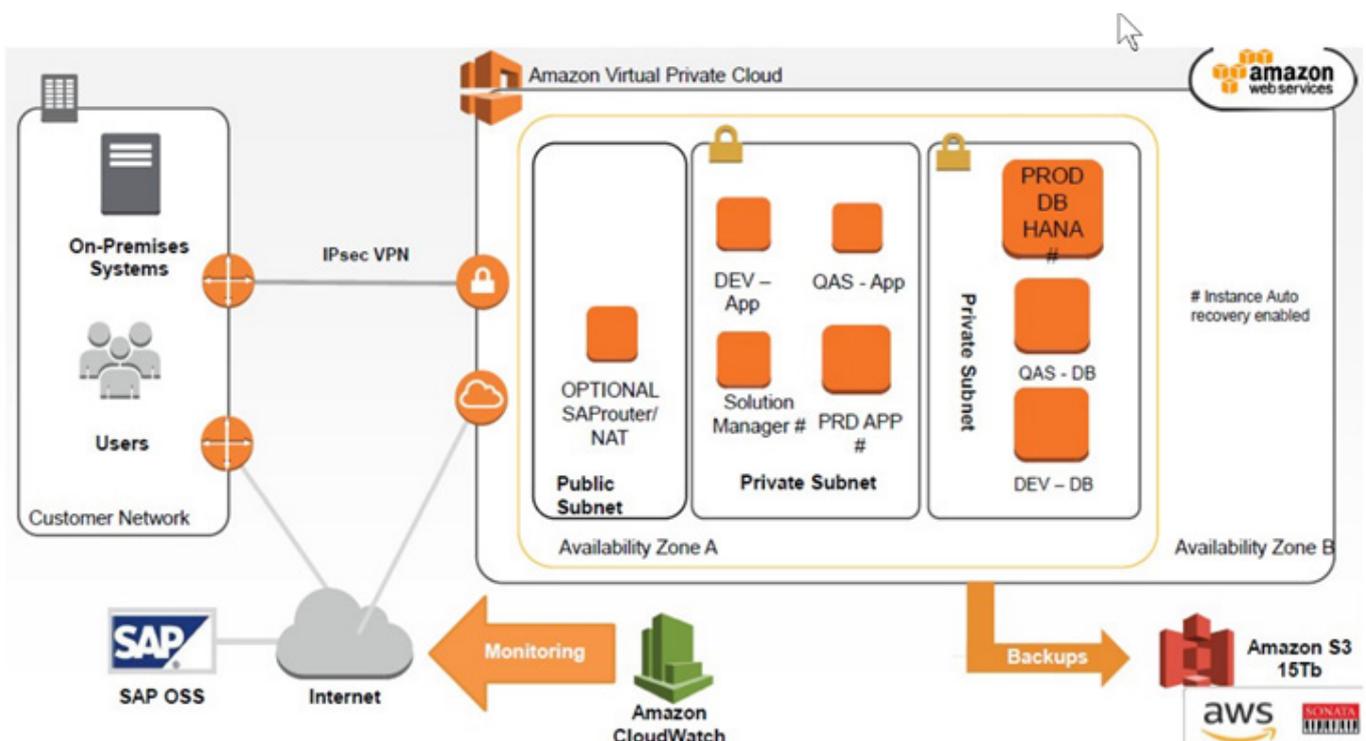


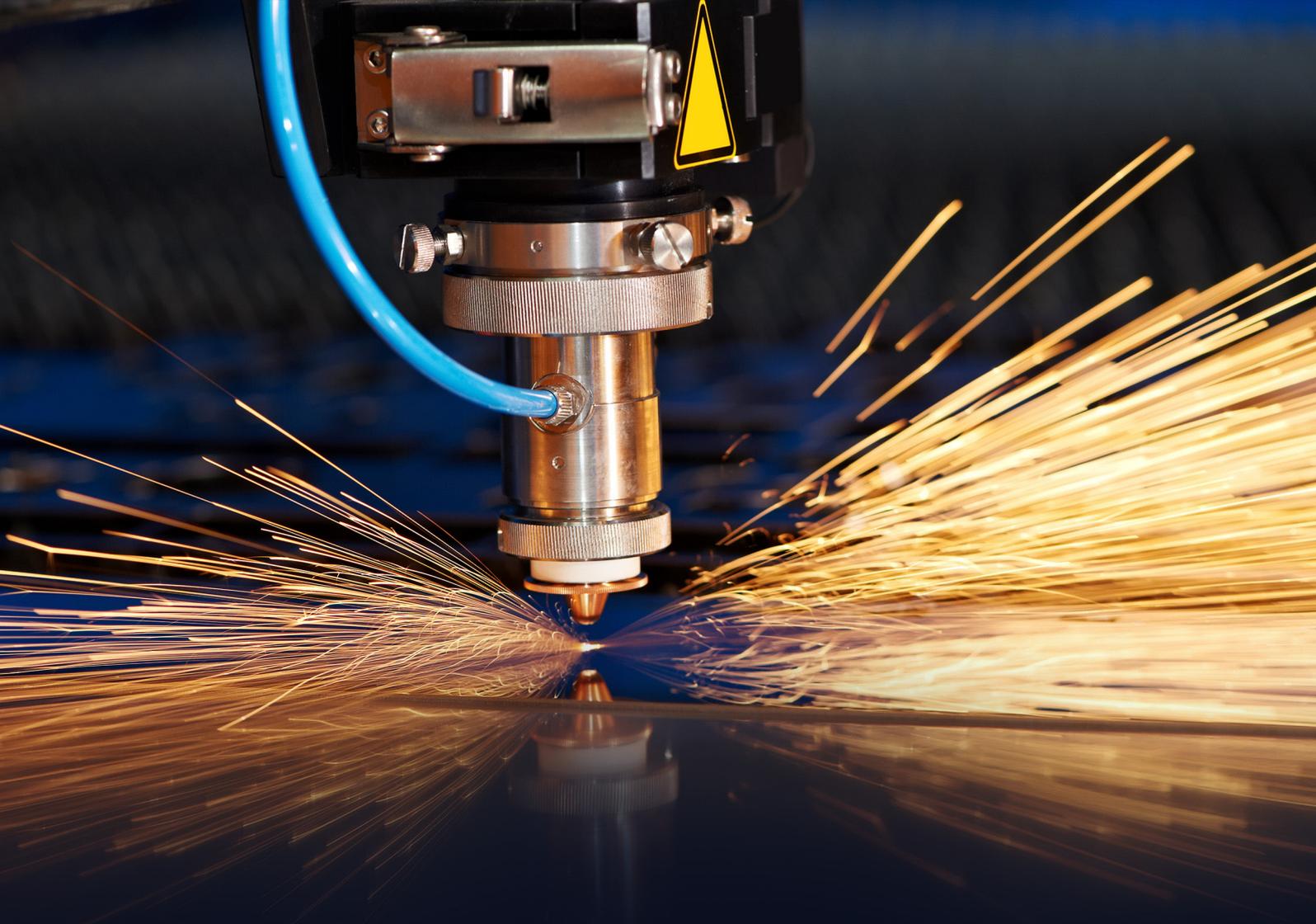
## AWS Services

**EC2:** Amazon EC2 Reserved Instances (RI) have been used as they provide a capacity reservation offering additional scalability

**VPN site to site:** To ensure seamless and secure data transmission through private tunnel in the public Internet

**S3:** Amazon Machine Image (AMI) is backed-up on a weekly basis and data on SAP HANA DB is backed-up to Amazon S3 daily





## Security solutions

- ◆ AWS Identity and Access Management (IAM) service used to create users and groups and grant role-based access.
- ◆ Multi-Factor Authentication added to accounts and individual users
- ◆ Database and application servers are in private subnet accessible through bastion host.
- ◆ Public access to AWS resources is allowed only through client VPN.

## Monitoring and Detection

- ◆ All servers are in a single availability zone, with backups enabled
- ◆ AWS Trusted Advisor is enabled for best practice checks and recommendations
- ◆ Quarterly reviews of cloud infrastructure and cost optimization measures recommended

# The Benefits

The entire infrastructure for SAP S/4HANA Module was provisioned quickly enabling accelerated adoption

Cloud-based infrastructure allows for increases to production servers in the event of additional load during month end or quarter end

**Faster time to value**

**Scalable**

Amazon Web Services (AWS) offers an 'always on' form of computing, sending alerts and triggering actions when thresholds (CPU usage / memory) are reached, delivering a mission critical environment in a highly cost-effective way

**Increased stability**

**Reduced costs**

MAG Group is only charged for the infrastructure resources that are used.



# The Sonata Scalable approach to cloud transformation

Most enterprises tend to view the cloud as only one part of their infrastructure stack. Sonata Scalable helps businesses embrace Cloud Platformation™ as a framework for their broader digital agenda.

Sonata Scalable's unique Cloud Platformation™ approach delivers a superior cloud journey, ensuring every piece of the digital stack operates in cooperation with lower-level stacks and responds on demand.

Sonata Scalable's Platformation™ approach to managed cloud services provides an ecosystem that is scalable, open, connected, and intelligent. We have a proven track record with Azure, AWS & Google alliances on IT infrastructure, cloud, and solutions.

Sonata's managed services for cloud offer design, delivery, and daily operational support for computing, storage, and virtual networks on the cloud environment.

## About Sonata Scalable

Sonata Scalable is the Australian arm of a global technology company specialising in platform-based digital transformation, supporting businesses to become connected, open, intelligent and scalable. Sonata's Platformation™ methodology brings together industry expertise, platform technology excellence, design innovation and strategic engagement models to deliver sustained value to customers. A trusted partner of world leaders in the retail, manufacturing, distribution, travel, services and software industries, Sonata's software portfolio includes the Brick & Click Retail Platform®, Modern Distribution Platform®, Rezopia Digital Travel Platform®, Kartopia E-commerce Platform®, Halosys enterprise development automation Platform®, CTRM Commodity Trading and Risk Management Platform® and KODO - AI Powered Customer Experience (CX) Platform. Sonata's Platformation approach ensures services built on Microsoft Dynamics 365, Microsoft Azure, AWS, Cloud Engineering and Managed Services deliver on the Platformation promise. As world leaders in digital technologies including IoT, Artificial Intelligence, Machine Learning, Robotic Process Automation, Chatbots, Block Chain and Cyber Security, Sonata's people and systems are nurtured to deliver on our commitment to excellence in business technology solutions.

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