

# AZURE ARC 3-Day WORKSHOP

# ABOUT SOFTSERVE

12,000+

ASSOCIATES

Worldwide

30+ YEARS

ACROSS  
MULTIPLE  
INDUSTRIES

20,000+

PROJECTS

For Customers

## CTO CENTERS OF EXCELLENCE

### CRITICAL SERVICES

Cloud, Application Migrations and Modernizations, DevOps, Governance, Security, Operations & Applications Support

### INTELLIGENT ENTERPRISE

Big data, Data Science/AI/ML, IoT, Blockchain, Robotics, Extended Reality AR/VR/MR  
GDPR consulting, Technical Due Diligence

### PRODUCT MANAGEMENT & BUSINESS ANALYSIS

Product Strategy & Design, Lean Product Management, Business Analysis & Process Design, Operational Efficiency

### DIGITAL PLATFORMS

Marketing platform implementation & Optimization such as e.g., Sitecore, Magento, Salesforce, MuleSoft

### EXPERIENCE DESIGN

Design thinking, Strategy, Iteration, Delivery, Service Design, Product Design, DesignOps

### SOLUTIONS

IT Advisory, Software Architecture and Development, RPA, Performance Testing

### INNOVATION

Innovation Strategy with our proprietary platform and our innovation team

### RESEARCH & DEVELOPMENT EXPERIENCE DESIGN

Technology incubation, PoC Engineering, Emotional intelligence, R&D Innovation, Feasibility Study, R&D as a Service, Deep Tech Research, Advanced AI, Tech Commercialization

## EXTENSIVE DOMAIN EXPERTISE

We are a trusted adviser and provider enabling our clients to build transformative experiences, gain insight from the data, and accelerate business outcomes.

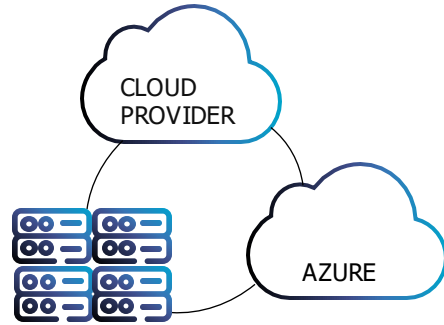
## COMPLIANCE STANDARDS



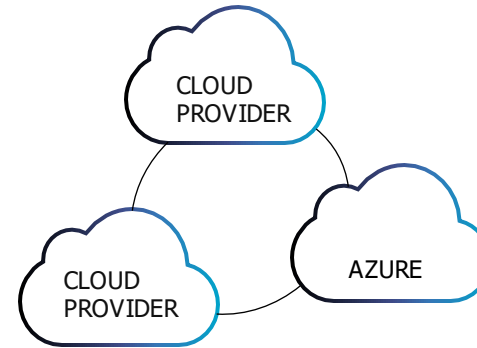
## OUR PARTNERS



# HYBRID vs MULTICLOUD



A hybrid cloud is a type of cloud computing that combines a private cloud (on-premises infrastructure), with a public cloud.



Multicloud computing refers to the use of multiple cloud computing services from more than one cloud provider (including private and public clouds), in a heterogeneous environment.

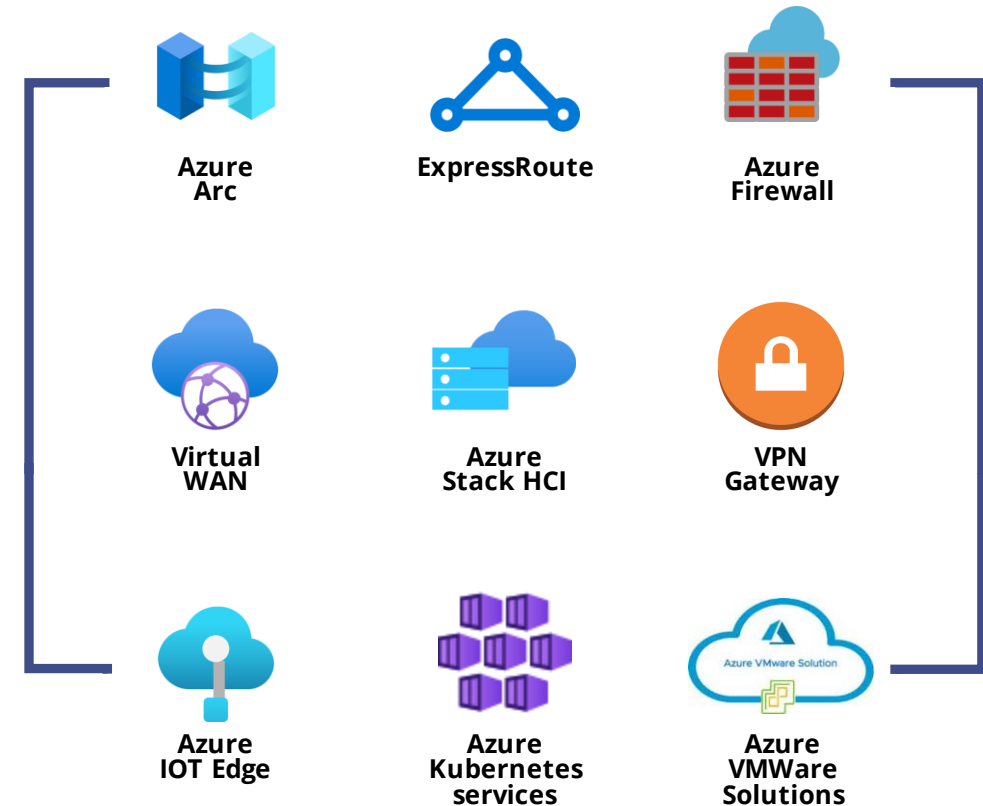
# HYBRID, EDGE & MULTICLOUD

Cloud-managed edge computing devices bring the computing power of the public cloud to the private cloud. Working with this direction, you can leverage the power of new services:

- Azure Arc
- Azure Stack HCI
- Azure VMWare Solution

## WE PROPOSE:

- PoC and workshops
- Design and implement Hybrid solution
- Build Multi-cloud strategy
- Azure Hybrid services integration



# HYBRID & MULTICLOUD MOTIVATION



PRODUCT MIGRATION  
AND MODERNIZATION



BUSINESS  
CONTINUITY



SAFE  
INNOVATIONS



MAXIMIZE  
PERFORMANCE

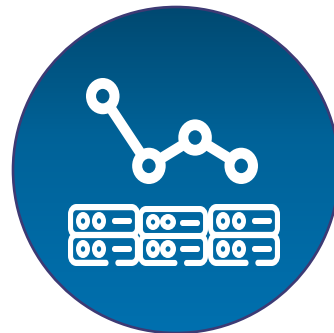
# HYBRID & MULTICLOUD USE CASES



FLEXIBILITY TO  
MOVE  
WORKLOADS  
ACROSS  
PLATFORMS



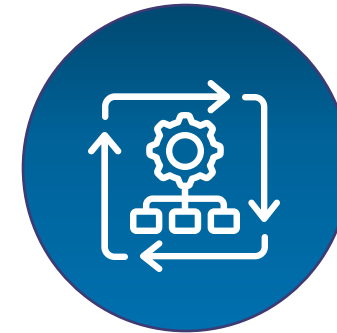
WORKLOADS  
RELIABILITY



MINIMIZE  
DEPENDENCY ON  
PLATFORM



COST  
EFFICIENCY



WORKLOADS  
TIERS  
SEGRAGATIONS

**softserve**

# ABOUT AZURE ARC-ENABLED SERVICES AND INFRASTRUCTURE

Azure Arc product group is a bridge that extends the Azure platform to help build applications and services with the flexibility to run across data centers, at the edge, and in multi-cloud environments. Azure Arc-enabled Infrastructure brings cloud features for key resources like physical servers, virtual machines, and Kubernetes clusters. Azure Arc-Enabled Services boost the hybrid infrastructure by bringing the power of Azure PaaS offerings like App Services, Data Services, and Machine Learning.

- **Reduce costs.** The deployment of Azure Arc reduces their total cost of ownership for workload and data management. The technology helps workload and data management by automating many of the tasks associated with maintaining an on-premises infrastructure.
- **Accelerate development.** The use of Azure Arc allows for accelerating the development of new applications and services, as the technology simplifies the process of provisioning and managing resources.
- **Keep up with the availability requirements.** Azure Arc improves the availability and performance of applications and databases, as the technology simplifies scaling resources to meet changing demand and integrates with Azure Monitor to provide real-time visibility into health and performance.

# Azure Arc Three Day Workshop

## CONSISTS OF:

- **Uncovering the concepts and features** of Azure Arc-Enabled Services and Infrastructure
- **Gathering details** about the workload and infrastructure
- **Preparing the enablement vision and roadmap** for Azure Arc

### Create Azure Arc data controller

**Step 1: Deployment pre-requisites**

The Kubernetes cluster must already be arc-enabled with the az connectedk8s connect command. Please use our [documentation page](#) to learn more.

Required tools

Tool	Description	Status	Version	Required Version	Discovered Path or Additional Information
kubectl	Runs commands against Kubernetes clusters	Installed	1.23.1		/opt/homebrew/bin/kubectl
Azure CLI	Manages Azure resources	Installed	2.41.0		/opt/homebrew/bin/az

The screenshot displays the 'SQL Managed Instance Metrics' dashboard. It features several performance graphs: 'Transactions/sec' showing a peak around 4.200; 'Batch Requests/sec' showing a peak around 0.8011; 'Wait Statistics (Wait time ms)' with a significant spike for 'SOS\_WORK\_DISPATCHER' at 41s; 'Memory Broker Clerks' showing 'Buffer Pool' at 7 MB and 'Columnstore' at 4 KB; and 'Wait Statistics (Waiting task count)' showing various wait types. The dashboard also includes a 'Database Activity' and 'SQL Server Activity' section at the bottom.



# Workshop AGENDA

● Day 1  
*3 hours*

- Introduction to Azure Arc-enabled Services
- Business and architectural drivers gathering session
- Workload details gathering session

● Day 2  
*3 hours*

- Introduction to Azure Arc-enabled Infrastructure
- Infrastructure challenges and constraints gathering session

● Day 3  
*3 hours*

- Presenting the Arc-Enabled Data Services enablement vision and roadmap
- Q&A

# FOR THE FUTURE

softserve