



AZURE ARC CONSULTANCY

3-DAY AZURE ARC JUMP START WORKSHOP

AZURE ARC – WHAT IS IT ABOUT?

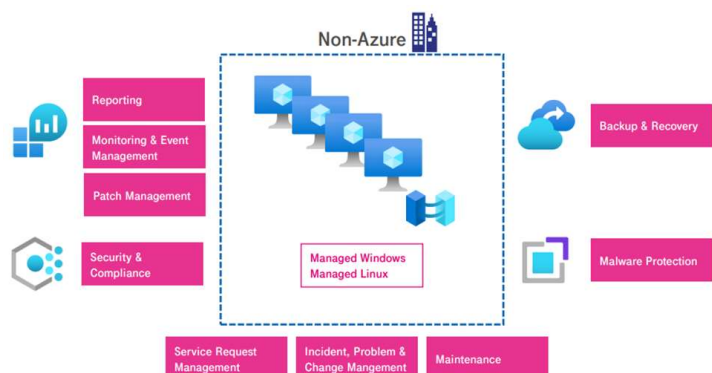
Azure Arc brings the power of cloud-native resource management to your on-premise datacenters and edge while also unifying all multi- and hybrid cloud resources into a single pane of glass. It delivers many of the robust and innovative Azure cloud management services to any location and enables a step-up in both secure and reliable operations as well as providing your application teams the speed and flexibility they need.

ACCELERATE YOUR HYBRID CLOUD JOURNEY

T-Systems offers a 3-day Azure Arc Jump Start workshop to accelerate your hybrid cloud journey. We will walk you through the Azure Arc capabilities, match it to your requirements and deliver a documented architecture vision, solution outline and advisory on next steps by the end of day 3. T-Systems has developed leading expertise in both multi-cloud as well as on-premise datacenters and edge. This enables us to consult you about Azure Arc in unique ways as elaborated on the next pages. Here's what you can expect from us:

Workshop Agenda:

- Day 1: Discovery
 - Introduction and expectations
 - Clarifying the objective
 - Scope definition
 - Requirements gathering
 - Digital estate inventory
- Day 2: Exploration
 - Azure Arc overview
 - Implementing Azure Arc
 - Leveraging the Power of Cloud Automation
 - Gaining Deep Insight with Log Analytics
 - Exercising Governance with Azure Policies
 - Securing Workloads with Security Center and Microsoft Antimalware
 - Protecting your data with Azure Backup
 - Leverage Cloud-Native Management with Azure Resource Manager
 - Connecting Your Multi-Cloud, On-Premises and Edge
- Day 3: Solution
 - Objective, scope and requirements validation
 - Azure Arc solution overview
 - Implementation guidance
 - Next steps
 - Deliverable: fully documented architecture vision, solution outline and advisory on next steps



IMPLEMENTING AZURE ARC

In order to get started with Azure Arc, your hybrid machines need to be on-boarded to Azure Arc by deploying the Azure Arc Connected Machine agent. With our extensive experience in working with many of the largest enterprises as well as small businesses in transition & transformation projects, T-Systems can accelerate your Azure Arc implementation by:

- Creating runbooks to ensure the quality of the on-boarding process and non-disruptive mass deployment of agents in a fully automated fashion
- Working with customer specific requirements and processes in order to meet the needs of your service management and security team's standards
- Using Agile Sprints for on-boarding your hybrid machines into Azure Arc to allow for both rapid execution as well as a gradual roll-out when your business requires it

LEVERAGING THE POWER OF CLOUD AUTOMATION

With Azure Arc, the power of cloud automation is now available everywhere. The Custom Script Extension enables large scale script execution, basically allowing the automation of many standard tasks. T-Systems has vast experience in using this technology in our Managed Cloud Services for Azure and can consult you in automating tasks like joining machines to your Active Directory domain, installing and configuring 3rd party agents, etc.

The Azure Update Management solution provides a framework for fully automating software update deployments as well as monitoring and reporting on your update compliance state. Azure Arc extends this capability to all your locations outside of Azure. T-Systems has a standardized framework to leverage this solution and ensures it meets your business needs. We consult you in configuring the Update Management solution and defining your update schedules based on Azure tags and policies, which ensures both update schedule enforcement as well as self-service control by the application owners.

GAINING DEEP INSIGHT WITH LOG ANALYTICS

Log Analytics provides you single pane of glass for reporting and alerting on your machine's data like event logs and performance data. Machines outside of Azure are easily connected to Log Analytics by using Azure Arc. T-Systems has developed unique knowledge and best practices in setting up the right alerts, thresholds and event management in order to get alerted right away when needed while also minimizing false positives to get you a jump start.

We can help you setup the right alerts and thresholds to ensure secure and reliable operation of your environment and share our knowledge on implementing a fully automated event management solution to prevent duplicate events and prevent false positives. Furthermore, T-Systems can automate incident registration through your service management software's API.

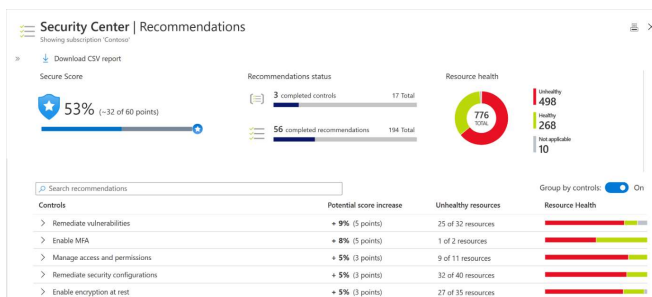


EXERCISING GOVERNANCE WITH AZURE POLICIES

Azure Policies allow you to not only monitor the compliance of your hybrid machines (through Azure Arc) against various compliance baselines, but also auto-remediate any non-compliant machines. Several compliance baselines are already available in Azure, however writing your own policies to ensure compliance to the standards applicable to your business can be challenging. T-Systems can speed up this process by using several policy baselines we've already written as a starting point and adapting them to the needs of your business. Furthermore, T-Systems has developed a unique compliance framework using Azure Policies and Event Grid for our own Managed Cloud Service for Azure, based on which we can create advanced fully automated compliance remediation.

SECURING YOUR WORKLOADS

Azure Security Center is also available through Azure Arc and provides a solution to enhance your security posture by assessing your environment and makes recommendations based on security best practices. Microsoft Antimalware is also supported with Azure Arc and provides robust protection against cyber attacks with Advanced Threat Protection. T-Systems can help you get the most out of these cloud-native security services ensuring automated onboarding of your workloads in Azure's security services and consulting you in establishing SecOps teams with our vast experience in running security operations centers for even the most business critical environments.



PROTECTING YOUR DATA WITH AZURE BACKUP

Data protection is a vital part of managing any environment, including your remote servers managed through Azure Arc. While there is no direct integration with Azure Backup, T-Systems can help you setup a streamlined Azure Backup based solution for data protection. Through our experience we can consult you on establishing a robust Azure Backup architecture and cloud connectivity that meets your business requirements in terms of RPO and RTO.

WHY T-SYSTEMS

Market Leader – Recognized as a Market Leader in both Public Cloud and Hybrid Cloud by several independent technology research and advisory firms like Gartner and ISG.

Cloud & Connectivity – End-to-end service provider for Public Cloud, Hybrid Cloud and connectivity as T-Systems is part of Deutsche Telekom.

European Trustee – Your data is only handled by personnel located in the European Union or even solely from Germany when desired as an add-on and is governed under European and German law, when your business regulations require this level of data sovereignty.

LEVERAGE CLOUD-NATIVE MANAGEMENT

With your hybrid machines integrated into the Azure Resource Manager through Azure Arc, new possibilities open up in order to manage your resources in a cloud native way. Having worked with many customers over the years, both big and small, we've developed a model that allows extensive freedom of developers while at the same time ensuring governance and control over security and compliance. T-Systems can help you setup a combination of Azure Resource Groups, Policies and Role Based Access Control based on our best practices. This allows your application teams to work with their Azure Arc hybrid machines directly through the Azure Portal and API, while still maintaining precise control over what teams are allowed to do in order to minimize operational and security risks. This setup also ensures a scalable organizational structure and inventory of your Azure (Arc) hybrid machines with clear ownership and enforced tagging, supporting both your business and technical needs.

CONNECTING YOUR MULTI-CLOUD, ON-PREMISES AND EDGE

Every hybrid cloud requires a solid network foundation to interconnect the various clouds and datacenters. This is especially true for an Azure Arc based setup as your remote infrastructure management relies on connectivity to Azure. As part of Deutsche Telekom, T-Systems is your end-to-end service provider for all required network services, seamlessly integrated with our cloud offerings. T-Systems can support you with Azure network design and implementation (VNets, NSGs, Firewalls, Gateways, etc.), is an ExpressRoute connectivity provider and can even deliver on-premise network services.



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