

CLOUD INFRASTRUCTURE

Microsoft Solutions from Data Networks.



Embrace your journey to the cloud.

Cloud technologies are at the center of the digital transformation revolution. The cloud has changed more than the way we implement and manage IT; it's changing the very fabric of business. With ready access to data, and intelligent new ways to view, analyze, and use information, the cloud enables powerful new capabilities and advantages such as cost savings, flexibility and agility, service quality, and enabling new application scenarios.

As your organization embraces the opportunities presented by cloud computing to connect with users and optimize operations, Data Networks can help you realize those outcomes and provide guidance on your digital transformation journey with our Cloud Infrastructure Microsoft Solutions.

Our Cloud Infrastructure Microsoft Solution services include capabilities for:

- Cloud Migration & Modernization
- Azure Governance
- Hybrid Cloud Networking
- Automation & Orchestration
- Operations & Management



Gold Messaging
Gold Cloud Productivity
Silver Collaboration and Content
Silver Datacenter
Silver Windows and Devices

Data Networks is a leading Microsoft Gold Certified Partner and Microsoft Cloud Solution Provider (CSP).

COMPETENCIES

- » Gold Messaging
- » Gold Cloud Productivity
- » Silver Collaboration & Content
- » Silver Datacenter
- » Silver Windows & Devices

CLOUD SOLUTION PROVIDER

As a Cloud Solution Provider, Data Networks can directly manage your entire Microsoft cloud lifecycle, including provision, management, and support of your Microsoft subscriptions.

Cloud Migration & Modernization

Migrate seamlessly to the cloud to reduce costs, increase agility, and improve service quality.

The path to unprecedented growth goes through the cloud, helping your organization connect users, data, and processes in new ways to embrace the possibilities enabled by modern technologies. Data Networks can help you make the platform and cultural shifts needed to build and implement a successful digital platform strategy. Our Cloud Migration & Modernization capabilities encompass every aspect of the digital transformation process—from initial discovery, to planning, designing, building, managing, and automating your cloud resources—we have the tools and expertise to deliver a seamless cloud migration through our Assessment, Migration, and Optimization services.

Assessment Services

Our Assessment Services help us understand your current infrastructure and opportunities for migrating applications with Azure. Our team uses a mixture of software tools and consultancy best practices to discover what applications can be migrated, what their current configurations are, the people within your organization who will be impacted by the migration, and the dependencies of the applications. Our assessments produce a comprehensive plan for what to do with each application and the expectations on availability and functionality, as well as understanding the migration process and costs.

Migration Services

Our Migration Services use the recommendations from the Assessment Plan to migrate applications to the cloud. Our team will setup your Azure subscriptions using best practices for security, connectivity, policies, and general governance prior to the migration to ensure your organization is using Azure correctly from the start. Once the subscriptions are in place, our team will perform the migration using the prescribed method identified in the Assessment Plan to rehost, retire, replace, rearchitect, or retain your applications in the cloud. All migrated applications are then evaluated and tested to ensure they meet the criteria outlined in the assessment and adhere to your specifications.

Optimization Services

Our Optimization Services give us the opportunity to look for opportunities to optimize spending and implement Azure security and management resources to govern, secure, and monitor your cloud applications in Azure. Our team will review your Azure Cost Management and Azure Advisor to track spending and identify areas for cost savings. This also includes evaluating migrated applications for opportunities to right size over-provisioned virtual machines and services. We can implement automation to resize or stop based on a utilization schedule and identify applications that could benefit from optimization with platform as a service (PaaS) services or containers.

Azure Governance

Build and scale your applications quickly while maintaining control.

Azure provides several built-in tools to help apply governance at scale. Our resourceful Microsoft engineers can develop tools, scripts, templates, and policies to apply more control in your environment.

Configure & Setup Azure Enterprise Agreement (EA) Portal

The Azure Enterprise Agreement Portal is an online management portal that helps manage the cost of Azure EA services. Our engineers can quickly and flawlessly setup your Azure EA Portal, assign admins and users, and demonstrate how to effectively use the portal to contain Azure spending.

Configure Governance for Control of Azure Resources

Our team will ensure your Azure resources are operating efficiently by configuring governance using:

- Azure Management Groups - to help organize resources and subscriptions.
- Azure Resource Manager Policies - to help manage and prevent IT issues with policy definitions that enforce rules and effects for your resources.
- Azure Role-Based Access Control - to help manage who has access to Azure resources, what they can do with those resources, and what areas they have access to.
- Azure Blueprints - to simplify deployments by packaging artifacts such as different policies, Azure Resource Manager templates, and Azure role-based access control (Azure RBAC) in a single blueprint definition.

Setup Power BI for Azure EA Monitoring

Our team can setup Microsoft Azure Consumption Insights for Power BI, which will enable your organization to quickly import and analyze your Azure consumption data for insights about which departments, accounts, or subscriptions are consuming the most. It also provides visibility of which service your organization used most and trends for spending and overall usage.

Hybrid Cloud Networking

Design, implement, and protect your hybrid cloud networking solution.

As you develop your multi-cloud strategy, our experienced networking Solution Architects and Engineers can help you ensure a secure connection to your existing data centers or sites to the cloud, and help you build a disaster recovery solution between your location and the Azure cloud. Our team can help with every aspect of your hybrid cloud networking solution, from determining bandwidth capacity to ensuring your solution meets organizational and industry compliance requirements.

Network Design & Bandwidth Planning

Your network is the heart of your organization— a poor network design can have a major impact on productivity and efficiency in the workplace. Find the right balance of network performance, security, redundancy, and cost by leveraging our team’s unique mix of project management and technical skill to nail your network design project. Our team addresses the entire network planning lifecycle by identifying your network and bandwidth requirements, assessing the current state of your network, designing your network topology, choosing the best hardware and software, and creating an implementation plan to deploy, configure, and test your network.

Enable Hybrid Connectivity

Our team can securely connect your cloud resources with your on-premises data centers with Azure’s ExpressRoute or Site-to-Site networking (or both).

- ExpressRoute is an Azure resource that lets you create private connections between Microsoft data centers and infrastructure that’s on-premises or in a colocation facility. ExpressRoute connections do not go over the public internet, and offer higher security, reliability, and speeds with lower latencies than typical connections over the internet.
- Azure VPN gateways provide cross-premises connectivity between your location and Azure. The Azure portal can create a Site-to-Site VPN gateway connection from your on-premises network to the virtual network.

Build Geo-Redundant or Multi-Cloud Solutions

Applications that require the highest levels of availability and quality of experience require geographic redundancy, or geo-redundancy, which duplicates your applications and infrastructure across geographic regions. Our team can design and deliver a geo-redundant solution to avoid application downtime and seamlessly reconnect clients to functioning regions using a disaster recovery (DR) or a distributed (active/active) scenario. You can also depend on our team to deliver a multi-cloud solution designed to meet your organizational goals. By marrying public, private, and edge clouds to form a multi-faceted solution, we combine on-premise operations with services and applications running on multiple public cloud providers, enabling your organization to capture the benefits of each platform while mitigating their downsides. We use Azure Traffic Manager when building your geo-redundant or multi-cloud solutions to distribute traffic to your public facing applications across the global Azure regions and provide your public endpoints with high availability and quick responsiveness.

Perform Network Readiness Assessments

Our Network Readiness Assessments provide a detailed analysis of your existing network's capabilities and a roadmap to readiness as you prepare to adopt or upgrade your Microsoft digital workplace solutions. Our assessments help identify possible obstacles to new technology integration, provide a detailed analysis of how to best leverage current technology, and deliver expert guidance and consultation to ensure your successful digital transformation initiative.

Secure the Network & Ensure Compliance

Security is an essential component of strong data safeguards in all network and online computing environments. We can secure your network and ensure compliance by deploying Azure Firewall, which helps lock down your environment and filter outbound traffic, and Azure network security groups to filter network traffic to and from Azure resources in your Azure virtual network.

Implement Secure Connectivity

An important component of your hybrid cloud network is to implement secure connectivity for remote administration and development. Our team can implement a point-to-site VPN connection to enable your developers or operations personnel to manage virtual machines and services in Azure. The point-to-site VPN connection creates a private and secure connection between the user and the virtual network. Once connected, users can RDP or SSH over the VPN link to any virtual machine on the virtual network.

Automation & Orchestration

Automate and optimize your hybrid environment.

Automation and orchestration are important functions for a successful Azure practice. DevOps brings together people, processes, and technology that automates software delivery to provide continuous value by delivering software faster and more reliably. It offers significant benefits, including optimizing Azure spending and increasing reliability for workloads that have varying resource requirements.

Optimize Azure Spending & Increase Workload Reliability

Automation and DevOps both offer capabilities that save money and increase efficiency by adding technology that performs tasks with reduced human assistance. Azure Automation delivers a cloud-based automation and configuration service to automate, configure, and install updates across hybrid environments. Azure Automation provides complete control during deployment, operations, and decommissioning of workloads and resources. Similarly, Azure DevOps automates and speeds software delivery, fixes, and updates which make your processes and products more reliable. Our team can deliver key services for setting up and configuring your Automation & DevOps resources, including:

- Template and script authoring
- Automatic start and stop of virtual machines
- Cost management of developer cloud resources
- Automatic scale down of services
- Continuous deployment and integration
- Configuration management
- Container management

Operations & Management

Achieve value and agility in the cloud.

Azure offers many services for visibility and control across your environment—from your on-premises data center to the cloud. Data Networks' Operations & Management services can help you manage, protect, and secure your workloads no matter where they reside by implementing and configuring built-in Azure features.

Azure Management Services

Azure Monitor, Log Analytics, Application Insights, and Azure Automation are the core Azure services which comprise the management stack. Our team can configure these services to help you gain visibility into your environment, reduce mean time to resolution when errors do occur, improve the performance and usability of your applications in Azure, and perform change and update management.

- Azure Monitor - provides all the monitoring data you need to operate and maintain your Azure resources with base-level infrastructure metrics and logs for most services in Microsoft Azure.
- Log Analytics - centralizes log data from multiple systems and environments, including those external to Azure, in a single data store. This allows you to transform your Azure activity and managed data resources across different subscriptions into actionable insights.
- Application Insights - provides rich performance monitoring, powerful alerting, and easy-to-consume dashboards to help ensure your applications are available and performing as expected.
- Azure Automation - allows you to automate, configure, and install updates across hybrid environments.

Azure Protection Services

Azure Backup and Azure Site Recovery allow your organization to experience the benefits of high availability, disaster recovery, and backup. Our team can implement these Azure services in your environment to deliver business continuity and disaster recovery solutions that reduce costs, increase compliance, and reduce complexity.

- Azure Backup - protects your data with a cloud-based backup-as-a-service.

- Azure Site Recovery - reduces application downtime during IT interruptions, without compromising compliance, by keeping organizational apps and workloads running during outages.

Azure Security Services

Azure Security Center and Azure Network Appliances work to secure your workloads and respond quickly to attacks. Our team can implement these Azure Security services to provide you with increased visibility and control, threat detection and response, and protection from attacks.

- Azure Security Center - provides unified security management and advanced threat protection across hybrid cloud workloads. This allows you to apply security policies across your workloads, limit your exposure to threats, and detect and respond to attacks.
- Azure Network Appliances - allows you to implement your favorite network virtual appliances in Azure to bring the networking, security, and other functions of your favorite provider to Azure for a familiar experience using the skills your team already has.