

Infrastructure and Cloud Engineering

Secure your future.

Build the flexible framework you need to grow and adapt with ease.

Our Infrastructure and Cloud Engineering services provide the solid foundation you need to expand securely and adapt to changing technical demands. Niyam's skilled engineers help clients gain control over their toughest operational challenges, providing expert infrastructure support and fit-for-purpose cloud solutions that deliver rapid innovation capabilities. With our experience designing and managing environments with 99.99% uptime – as well as the ability to quickly troubleshoot and resolve critical issues – Niyam delivers the peace of mind you need to grow with confidence.

Server and System Management

Our team of certified IT professionals provide expert configuration, installation, maintenance, and security for new or existing server infrastructure. We take care of both routine and complex tasks, delivering a stable, secure server environment tailored to your specific needs. Along with our top-to-bottom server analysis and capacity planning capabilities, Niyam offers a complete spectrum of mission-critical services, including:

- Windows, Linux, and VMWare virtual server design, implementation, and management
- Data Center Migration
- Application and database server design, implementation, configuration and management
- Middleware upgrades and function enhancements
- System-wide software updates and security patches
- Custom firewall configuration, installation, and monitoring
- Daily/weekly malware, rootkit, and antivirus scans

Business Continuity and Disaster Recovery Plans (BDR)

System crashes. Power outages. Natural disasters. Whatever the event, our BDR experts can design a comprehensive disaster management and recovery plan to ensure the speedy restoration of your critical assets. With a full range of tools and technologies in place - including redundant storage, multi-layer encryption, cloud mirroring, and more – you'll operate confidently knowing your data can be recovered quickly in the event of a worst-case scenario.

Cloud Infrastructure Solutions

Our engineers are experts at crafting cloud solutions to allocate the right resources to the right workloads at the right time – all tailored to fit your specific business policies, operational priorities, and infrastructure needs.

Private Cloud Architecture

Our private cloud solutions are designed to meet your specific operational needs and mission goals, delivering scalability and self-service through custom, fit-for-purpose architecture. A private cloud strategy allows for more precise levels of service availability, uptime, and security, giving you complete control over every aspect of your cloud environment.

Public Cloud Design

Niyam's cloud engineers are highly experienced in the design and maintenance of public cloud environments, including SaaS, PaaS, and IaaS models. Our solutions deliver flexible cloud scalability, paving the way for growth without the need for spending in advance for large hardware or network capacity. A public cloud strategy allows you to easily go live and enable complex applications to run from anywhere, ensuring cloud-hosted services are always up-to-date and secure – all while keeping operational costs to a minimum.

Hybrid Cloud Platforms

By combining public and private cloud services and on-site IT resources, our hybrid cloud solutions infuse maximum agility into your operation, allowing workloads to move freely between environments in response to changing operational demands. Our team is deeply experienced in the development of this uniquely agile cloud environment, delivering scalable infrastructure that reduces complexity, maximizes security, and optimizes all your workflows.

Enterprise Applications

Niyam offers comprehensive enterprise application services, including communication app development, CRM solutions, ERP software design, digital workplace models, and more. Let our experts design and deploy the tools and software you need to manage end-user devices, personalize customer interactions, and foster collaboration among teams – giving your entire enterprise a seamless work experience delivered across virtual, physical, and connected environments.

Cloud Migration

We work closely with clients to develop cloud migration strategies that are specifically designed to meet their unique challenges and requirements. Our team expertly integrates operational capabilities with custom tools, processes, and automation, ensuring the successful transfer of data and workloads to any cloud environment – public, private, or hybrid – with minimal disruption to operations.

KEY OUTCOME

FEMA Cloud Migration

Niyam was contracted to migrate FEMA's product dissemination website to a cloud environment, using Akamai Content Delivery Network (CDN). Our solution **dramatically improved** overall efficiency, resulting in a remarkable **38% reduction** in Operation and Maintenance costs.

Cloud Security

Niyam prioritizes security in all our cloud solutions, deploying gold-standard protocols to protect resources, keep data moving safely across applications, and monitor the trust of digital interactions. We have deep experience developing FISMA security plans, POAM strategies, and Identity Access Management solutions, as well as delivering NIST-, FISMA-, FIPS-, and FedRAMP-compliant strategies and solutions.

Why Niyam?

Since our founding in 2007, Niyam has developed an impressive record of successful outcomes, earning our status as the go-to provider of innovative IT solutions. Today, Niyam sits at the vanguard of the industry, delivering state-of-the-art, mission-critical technologies to federal agencies and the public marketplace. Our solutions are proven to accelerate collaboration, increase efficiency, and consistently provide rapid, breakthrough results – all while remaining conscious of shifting timelines and budgets.

Our Technology Partners



Our Tools and Processes

- Amazon EC2, Akamai CDN
- Python & R Models, Jenkins Build
- SQL, MongoDB, PostgreSQL
- Agile Scrum, Kanban, eXtreme Programming
- Pentaho Data Integrator, Apache NiFi and FME

Learn More

For more information about our **Infrastructure and Cloud Engineering** capabilities, contact us at 703-429-2450 or email cloud@niyamit.com.



PRIMARY HEADQUARTERS 202 Church St. SE, Suite 301 Leesburg, VA 20175
SOLUTION DEVELOPMENT CENTER 10201 Fairfax Blvd., Suite 224 Fairfax, VA 22030

+1 703.429.2450 info@niyamit.com www.niyamit.com

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EFFECTIVE SOLUTIONS. MEASURABLE OUTCOMES.