ActioNews

ActioNet solutions are built on **People, Innovative Processes, Technology** and **Partnership**. ActioNet has established an outstanding track record of creating continuously forward-looking, cost-effective IT solutions, meeting such Federal mandates as 'cloud-first' initiatives. Our ActioNetCloud® family of service offerings include:

➢ **ActioNetDesk®**
➢ **ActioNetAgile®**
➢ **ActioNetHosting®**
➢ **ActioNetMobility®**
➢ **ActioNetCyber®**
➢ **ActioNet360®**

For a complete list of ActioNet-Cloud® Solutions, visit www. actionet.com/Solutions/ ActioNetCloud.asp

ActioNet's Core Values center on Customer Service, Employee Growth and the Quality of our Work. We continually invest in our people and our capabilities with a continual process improvement focus based on ISO 20000, ISO 27000, ISO 9000, HDI and CMMI® Level 3. We are proud to have many certified staff:

➢ 500 ITIL Certified
➢ 100 PMP Certified
➢ 80 DoD 8570 Compliant
➢ 35 ScrumMasters
➢ 24 AWS Certified Technical

The key to successful transformation into a performance-based, customer-focused organization is clearly defining the current state of the organization and building a detailed roadmap for improving service delivery.

Ashley W. Chen
President & CEO
703.204.0090
info@actionet.com

ActioNet Sponsors 5K Run to Benefit Saint Luke Wildcats

By Anthony Adoremos, Director, Civilian Programs

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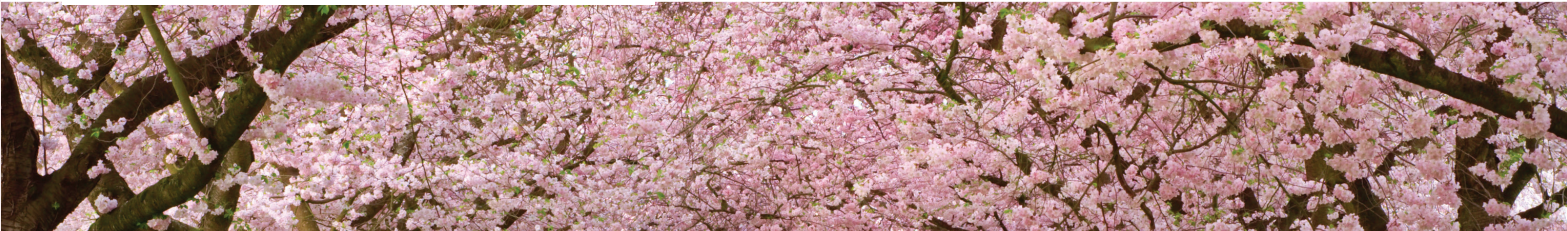### Ut wisi enim ad minim veniam
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ActioNews

Turning **VISION** into **ACTION®**

PRESIDENT'S NOTE

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Ashley W. Chen

President & CEO

IN THIS ISSUE

ActioNet Responds Rapidly to Our Department of Education Client

By Stephen Reckford, Program Director

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Infrastructure Impossible – ActioNet to the Rescue

By Jim Leonard, Program Manager

The Department of Energy Organization Act of 1977 established the primary federal government authority on energy statistics and analysis. The collection, analysis, and dissemination of independent and impartial energy information throughout the USA to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment is the charter of this organization.

A comprehensive data collection program is conducted that covers the full spectrum of energy sources, end uses, and energy flows. Informative energy analyses, monthly short-term forecasts of energy market trends, and long-term U.S. and international energy outlooks are prepared.

The customer sought to establish a digital information collection solution, including architecture and platforms deployment to leverage cloud computing capabilities in support of its mission. Building on the success of a previous proof of concept, the requirement included consulting and integration services to assure Development, User Acceptance Testing (UAT), and Production environments were deployed to meet the operational, performance and security standards of the Department.
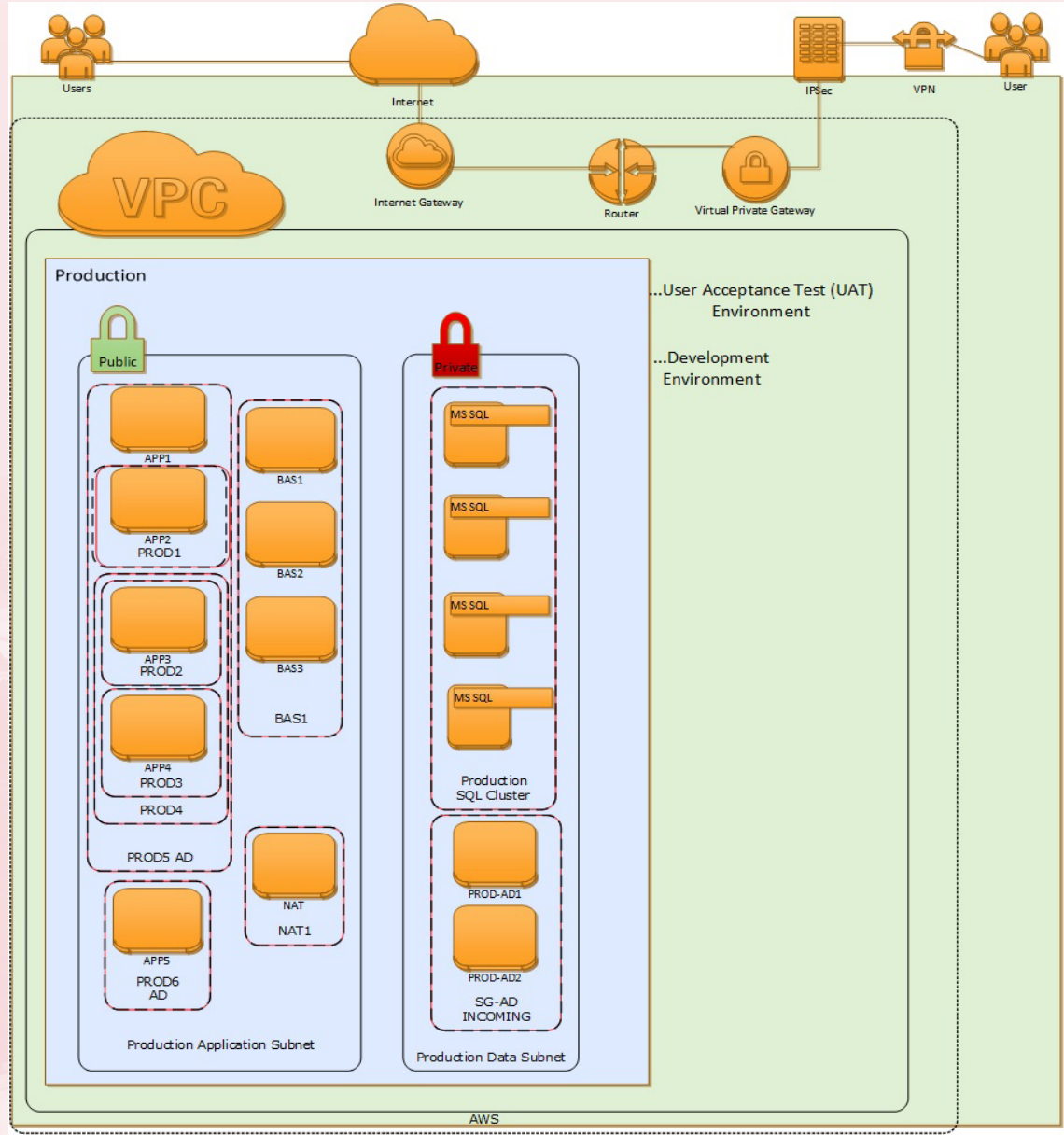
The original proof of concept was implemented in a non-FedRAMP certified environment and the nationwide production application was subsequently shutdown for security reasons. The Mission imperative was to rapidly provision and configure a new Production environment and gain Authority to Operate (ATO). ActioNet was selected to provide Assessment, Architecture, Acquisition, and Accreditation support to meet this end.

The Mission platform requirements were gathered and a comprehensive assessment survey was developed to qualify FedRAMP certified Cloud Service providers. Amazon Web Services (AWS) was selected as the preferred provider based on the quantitative survey results. The application Production environment was instantiated, configured, and made ready on October 31, 2014 – just two weeks after ATP. The Production environment was comprised of a Bastion server, five application servers, four database servers, dual Active Directory servers, a NAT server, and SFTP and malware software.

In parallel, the project team obtained FedRAMP security packages from both AWS and Salesforce.com, which had application connectivity via secure agents for data transfer, and performed Plan of Action and Milestones (POA&M) reviews to evaluate security vulnerabilities against the DOE security controls checklist. The security package for both AWS and Salesforce.com was prepared and a combined ATO was granted six weeks after contract award.

Once the Production platform was available to the applications team, ActioNet configured the User Acceptance Test (UAT) and Development environments. By the end of

ActioNet Responds Rapidly

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the year, a total of 27 Virtual Machines were configured to support the mission critical application providing a highly available, reliable, and scalable architecture. Additionally, the customer needed to extend their network via an IPSec tunnel to securely access the AWS Virtual Private Cloud (VPC). ActioNet documented the physical architecture, prepared, and delivered the Interconnection Service Agreement (ISA) and Memorandum of Understanding (MOU) documents to securely extend the network to the AWS VPC.

The Cloud Services project is now in the Sustainment phase. ActioNet is working closely with the applications team on application architecture enhancements and performance tuning. The team is also implementing and documenting infrastructure operations and security procedures that will become the Cloud Services organizational best practices. ActioNet's Cloud Services Team has accomplished tremendous results in a short period of time and is establishing a repeatable blueprint for the customer to move additional mission critical applications to the Cloud.

The AWS Cloud is a dynamic environment that provides customers with IT resource flexibility. The key benefits included no upfront capital expenditures while retaining the ability to expand and change compute and storage resources to meet the Mission needs. The architecture that ActioNet implemented provides an affordable and scalable application path forward that enables step wise risk reduction consistent with Mission needs as the customer transforms its systems, processes, and human capital investments.

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