



Success Story

Muscogee Creek Nation Casino Avoids Costly Downtime, Builds Multi-Tenant Private Cloud with FlexPod



Another NetApp solution delivered by:

PRESIDIO



KEY HIGHLIGHTS

Industry

Gaming and casino management

The Challenge

Replace an aging, limiting IT infrastructure with a state-of-the-art, scalable data center.

The Solution

Deploy the FlexPod® data center platform with FAS3240 storage systems, Cisco® UCS® servers, Cisco Nexus® switches, and VMware® to establish a proven compute, network, and storage environment for a flourishing gaming business.

Benefits

- Saves several hundred thousand dollars an hour in lost gaming revenue by avoiding downtime
- Grows IT as a service for other gaming organizations
- Reduces time to deploy new services by up to 75%
- Recoups 30% of storage through deduplication

Customer Profile

River Spirit Casino was originally established in 1984 as Creek Nation Casino, a Tulsa high-stakes bingo hall. Over time, River Spirit Casino has grown to become the largest Muscogee Creek Nation gaming facility in the state of Oklahoma. Today, Muscogee Creek Nation Casino offers a variety of gaming opportunities, including blackjack, poker, electronic games, and bingo at 10 thriving gaming properties across eastern Oklahoma, including its state-of-the-art casino in Tulsa, Oklahoma.

The Challenge

Accommodating rapid expansion

As the Muscogee Creek Nation's casino business grew and expanded to nine locations, the information technology (IT) team began to more closely examine each property's needs. For the growing enterprise, it was clear that any IT infrastructure had to offer high availability and scalability, as well as the flexibility to meet both internal business users' and casino guests' demands.

The core of the network infrastructure was located at the flagship facility in Tulsa. The combined solutions included a handful of disparate servers with outdated networking capabilities and without

substantive storage. The Tulsa operation was just beginning to support the Muscogee Creek Nation's casino management system from Konami, which manages gaming activities and internal services, such as file storage and Microsoft® Exchange Server e-mail.

That's when Jeff Brooks, chief information officer, and Bryon Fowler, senior systems analyst, for Muscogee Creek Nation Casino were brought into the organization to build an infrastructure to support the newly renovated and greatly expanded Tulsa casino, and scale to support the company's eight additional facilities. The casino's management system by Konami houses approximately 40TB of data. In addition, the other internal systems for running the business stores close to 50TB, constituting roughly 100TB of information in total.

The Solution

Streamlined, highly scalable platform

Based on the vision of former CIO of Muscogee Creek Nation Casino, Dr. Jay Burgess, Brooks and Fowler worked with technology partner Presidio, Inc. to help identify requirements and assess various solutions that would provide the company with robust server, networking, and storage capabilities. "We relied

“We were excited about deploying the prevalidated FlexPod solution with NetApp, Cisco, and VMware due to the environment’s significant cost savings and ease of management.”

Jeff Brooks

Chief Information Officer, Muscogee Creek Nation Casino

on a comprehensive research methodology with more than 160 key criteria, each weighted differently,” says Fowler. “We went through many ways to structure how we could accomplish our goals. We researched what we would need to essentially build what we considered an internal private cloud. In the interim we wanted to quickly build out and support the flagship Tulsa facility. However, we also needed a solution that could accommodate future initiatives.”

After meeting with numerous vendors, Muscogee Creek Nation Casino decided on FlexPod, a prevalidated configuration from NetApp and Cisco that delivers an optimized data center solution in a rack composed of leading compute, network, storage, and software components. For virtualization, Muscogee Creek Nation Casino chose VMware software. “Presidio’s help and guidance throughout this process was invaluable,” says Fowler. “After the decision was made to deploy a FlexPod solution, Presidio worked hand in hand with us on every design and implementation detail, successfully replacing our old infrastructure with a more powerful and agile environment.”

Muscogee Creek Nation Casino deployed NetApp® FAS3240 storage systems as part of its FlexPod configuration in Tulsa and Okmulgee, with another FlexPod planned for its Muscogee data center.

Each configuration includes a NetApp FAS3240 storage system with Cisco Nexus 7000 Series switches, Cisco Unified Computing System™ (UCS) B200 M3 blade servers, and the VMware vSphere® 5 Enterprise Suite with VMware ESXi™ 5 hosts, vCenter™ server, and vCenter operations.

The organization plans to virtualize 70% of its infrastructure, starting with Microsoft Exchange and the Konami gaming software solution. Konami runs on a back-end Oracle®10g™ database with Oracle Data Guard for database protection. Microsoft SQL Server® databases are also central to casino operations and virtualization strategies. The Microsoft SQL Server databases run VMware vCenter and VMware Site Recovery Manager in conjunction with NetApp SnapMirror® technology to safeguard virtualized data.

Significant management, small staff

The IT team manages the platforms through the NetApp Data ONTAP® operating system, NetApp OnCommand® Unified Manager, and VMware’s management software. Approximately 28 IT professionals manage all 9 facilities, a fairly lean team for handling more than 50 applications and 100 terabytes of data across so many locations.

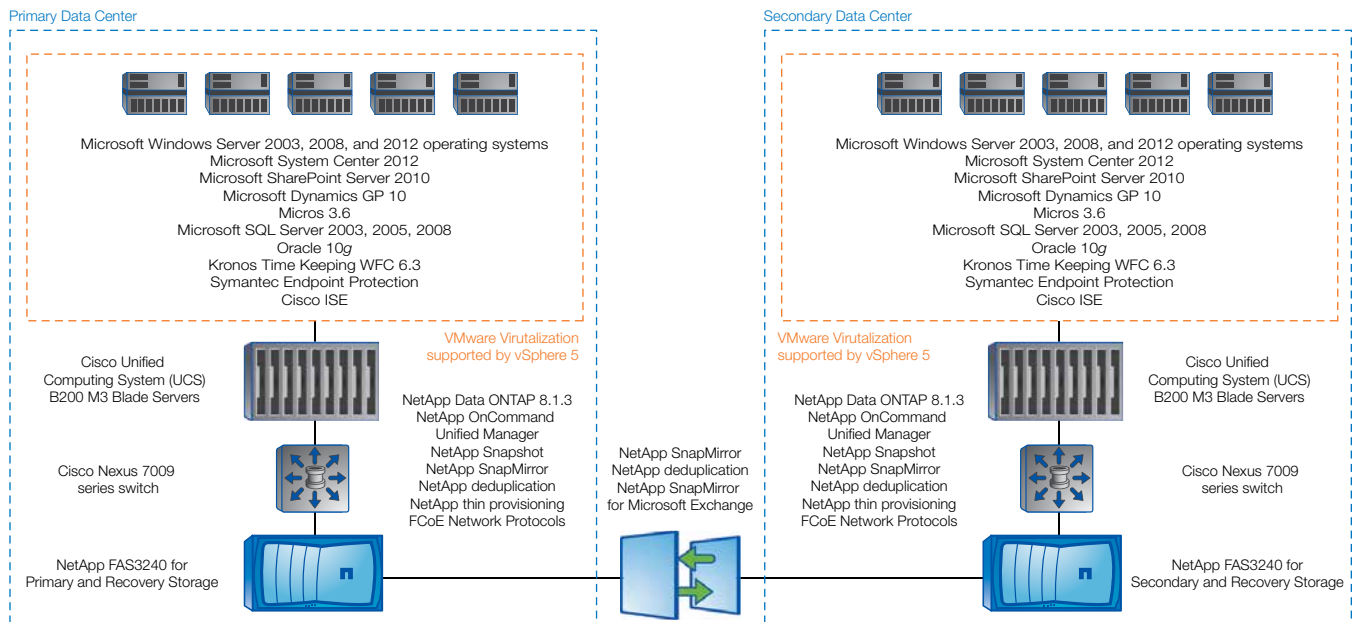
The staff leverages NetApp deduplication and compression to optimize the storage environment, recouping roughly 30% of

storage to utilize for other purposes. NetApp SnapMirror is deployed to replicate data from Tulsa to the secondary data center site in Okmulgee, providing full recovery capabilities without a single failure. NetApp SnapManager® for Exchange Server, in conjunction with VMware’s backup and recovery software, provides content protection.

“We were excited about deploying the prevalidated FlexPod solution with NetApp, Cisco, and VMware due to the environment’s significant cost savings and ease of management,” says Brooks. “We can quickly provision storage within NetApp and stay within the same management software console instead of having to jump between different software packages. The enhanced manageability provided by OnCommand and VMware with FlexPod was instrumental in our decision to go with the platform.”

Collaboration, commitment foster success

At the time Muscogee Creek Nation’s Casino was most in need of revamping and expanding its data center capabilities, FlexPod was in its infancy and few people in the IT world were aware of its power. To showcase the pretested, prevalidated, and integrated FlexPod solutions, Presidio worked with Cisco and NetApp to host Muscogee Creek Nation Casino decision makers at the



NetApp Executive Business Center in San Jose, California.

Business Benefits

ROI in spades

Now, new servers can be spun up to provision different gaming services in less than 30 minutes, making the business more agile and eliminating the need for the organization to continually

One of the biggest benefits for Muscogee Creek Nation Casino is the ability to virtually eliminate any concerns of systems going down. “Uptime on the floor is absolutely critical,” says Brooks. It not only directly affects customer satisfaction, but it also can result in lost revenue and lost transactional histories.

Winning big today and tomorrow

The IT team also wants to analyze the big data coming from its Konami database to know which games are best for the business and which are enjoyed most by customers. From a business standpoint, the IT team at Muscogee Creek Nation Casino believes that the FlexPod solution will become increasingly vital to every area of the business, from gaming operations to marketing and finance operations. “We want this to be a blueprint that helps the Nation become more productive and efficient all around,” Brooks says.

“Our gaming locations together produce several hundred thousand dollars an hour...By avoiding just a few hours of downtime, our FlexPod solution pays for itself. Now there’s an outstanding return on investment.”

Jeff Brooks

Chief Information Officer, Muscogee Creek Nation Casino

SOLUTION COMPONENTS

FlexPod Components

NetApp FAS3240 storage system
Cisco Unified Computing System (UCS) B200 M3 blade servers
Cisco Nexus 7000 Series switches

Virtualization Components

VMware vSphere 5 Enterprise
VMware vCenter
VMware Site Recovery Manager

NetApp Software

Data ONTAP 8.1.3
OnCommand Unified Manager
SnapMirror
NetApp deduplication and compression
SnapManager for Exchange Server

Protocol

FCoE

Third-Party Products

Applications:
Microsoft Exchange Server 2010
Microsoft SQL Server® 2003, 2005, 2008, 2008 R2
Konami KCMS 3.21
Oracle10g

Partners

Presidio
www.presidio.com
Cisco
www.cisco.com

Another NetApp
solution delivered by:



www.netapp.com

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

Go further, faster®

© 2013 NetApp, Inc. All rights reserved. No portions of this document may be reproduced without prior written consent of NetApp, Inc. Specifications are subject to change without notice. NetApp, the NetApp logo, Go further, faster, Data ONTAP, FlexPod, OnCommand, SnapManager, and SnapMirror are trademarks or registered trademarks of NetApp, Inc. in the United States and/or other countries. Cisco, Cisco Nexus, and UCS are registered trademarks and Unified Computing System is a trademark of Cisco Systems, Inc. VMware and vSphere are registered trademarks and vCenter and ESXi are trademarks of VMware, Inc. Microsoft and SQL Server are registered trademarks of Microsoft Corporation. Oracle is a registered trademark and Oracle10g is a trademark of Oracle Corporation. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such. CSS-6661-1013

Follow us on:

