

# IT Solutions Project Overview - Findings

Prepared for:

**City of Rochelle**



# Key Areas of Focus at City of Rochelle

- Internal Connectivity
- Windows Servers Access
- Linux Servers Review
- Server Backup Review
- Firewall Password Recovery & Policy Review
- Internet Service Provider Infrastructure
- Findings & Recommendations - Highlights

# Internal Connectivity - Findings

- Plan Lifecycle Replacement of most Network Switches
- Acquire spare access switches to have on hand to replace failures
- Implement redundant inter-switch links to provide redundancy and increase throughput
- Confirm VLAN configuration across switches meets the City's security needs.

# Windows Servers Access - Findings

- Update Antivirus on Servers
- Sikich recommends replacing servers that are out-of-warranty
- Patching and Windows updates appears to be under control, but a few of the servers were missing some patches.
- Sikich recommends replacing the current backup methodology with a comprehensive backup solution that includes centralized management and offsite replication.

# Linux Servers Review - Findings

- Several security patches and application updates were significantly out of date
- There was no centralized backup solution in place
- Limited use of network storage
- It is recommended that the City of Rochelle undertake a business review of the systems, services, and applications being provided to end users

# Server Backup Review - Findings

- No reporting on success or failure of backup jobs
- Each server is backed up in a standalone manner, with no centralized management
- No offsite backup in case of temporary or permanent loss of the facility
- Sikich recommends replacing the current backup methodology with a comprehensive backup solution that includes centralized management and offsite replication.

# Firewall Policy Review – Key Findings

- It is Recommended that the City continue to define:
  - Forwarding rules
  - Default FW Rules
  - Email Notifications
  
- The City should Evaluate and Review:
  - Site to Site VPNs
  - Client VPN Access
  - VLAN Routing
  - Advanced Threat Detection
  
- Obtain a quote for new Licensing and NextGen Firewall

# Internet Service Provider Infrastructure - Findings

- Verify appropriate segregation of customer Internet service VLANs from internal City of Rochelle municipal networks.
- Review SLA provided to City of Rochelle ISP customers to determine services provided and responsibility for security.
- Plan lifecycle replacement of CPE routers.
- Implement an IP Address management (IPAM) tool to accurately track public IP address allocations for customers and effectively manage the network addresses.



# Findings & Recommendations - Highlights

- The City of Rochelle's overall network is aging, with most of its server and network devices past support or nearing end of support.
- Lack of centralized management for data backup and offsite storage.
- It was also found that several security patches and application updates were significantly out of date.
- It is also recommended that the City of Rochelle undertake a business review of the systems, services, and applications being provided to the end users and ISP customers