Bonner County Job Description

Title: Network Engineer
Department: Technology
Supervisor: CIO
Supervision Exercised: None
Job Description Original Date: 05/18/2021
BOCC APPROVAL: 6/15/2021

General Summary

The Network Engineer, under the supervision of the CIO, will design, support, and manage a wide range of county network and technology infrastructure and enterprise services.   The incumbent will help ensure that our systems and infrastructure are designed and implemented to the highest security standards and best practices while performing at optimal levels. This position performs technical security assessments and vulnerability testing to highlight risk and remediate associated findings to help improve security and works closely with other technical staff members to design, build, and enhance our security posture.

Essential Functions

The essential functions include, but are not limited to, the following duties and responsibilities. Duties are not listed in any particular order of priority and may be amended or added to by the County at any time:

- Due to the nature of IT functions and day to day client interactions, this position will have access to confidential information. This Information and the confidentiality thereof is of the highest priority and required to be maintained in accordance with all applicable State laws, BC policy and ethical standards. Questions, concerns or possible violations shall be brought forth to the CIO for authenticity and clarification.
- Design, configuration, deployment, administration, maintenance, troubleshooting and documentation of enterprise network environment, network equipment, infrastructure, and support systems, including networking routers, switches, and appliances across multiple sites and departments of the County. This includes but not limited to LANs, WANs, and VLANs, network segments, and all wireless and wired technologies.
- Monitors network operations to identify performance and capacity issues, measuring volume and performance of network traffic, recommending remediation solutions. Develops plans and implements new technologies and services to satisfy capacity, performance requirements and best practices.
- Design, configuration, deployment, administration, maintenance, troubleshooting, monitoring and documentation of firewalls including VPNs, rules, port configurations, load balancing, failover, audits, etc.
- Ongoing assessment and testing of security vulnerabilities across County, generating reports and recommending remediation solutions.
- Design, configuration, deployment, administration, maintenance, troubleshooting, monitoring and documentation of storage technologies.
- Assist System Administrators in design and support of virtualization technologies to ensure best practices, high availability, and failover are achieved.
- Work with System Administrators and Technology Team to design, configure, support, and ensure best practices for AD, OU's, Group Policies, Domain Controllers, Domains, Protocols, Services, etc.
- Works with internal resources and outside vendors to obtain, implement, maintain, and document data cabling, internet access, data circuits, cable management, communications and other components as applicable.

- Work with CIO and System Administrators to manage, support, ensure best practices and document backup strategy and disaster recovery models.
- Contribute to internal knowledgebase, documentation, change logs, manuals, policies, and procedures.
- Act as an escalation point for helpdesk and other support needs of the Technology team. Assist in the overall performance and capability of technical team through mentoring and knowledge sharing.
- Participate in on-call support rotation with after hours, weekend and holiday coverage responsibilities.
- Performs other duties as required.

Specifications

- Bachelor's or equivalent combination of education, work and experience in computer science or a related field.
- 7 years network infrastructure support in an enterprise environment.
- 5 years experience in enterprise LAN/WAN network design, engineering, configuration, and support.
- 5 years experience in firewall and network/security devices, configuration, monitoring and support.
- 3 years experience in virtualization technology.
- CCNA or equivalent certification desired, CCNP or CCIE certifications desired.
- Firewall and other certifications such as Security+ and CySA+ or CFR desired.
- MCSE or similar certification desired.
- VCP certification desired, VCAP, VCIX or VCDX certification helpful.
- Extensive knowledge in network engineering best practices including IPAM, VLAN management, configuration management, authentication, etc.
- Extensive knowledge in designing, architecting, planning and implementing routing, switching and data center solutions and strategies.
- Extensive knowledge in network security principles, best practices, strategies and methodologies.
- Experience with network tools to test and monitor circuits, firewalls, and network components for errors and performance, vulnerabilities, security issues, etc.
- Experience with AWS or Azure cloud services with related certifications helpful.
- Must possess a vehicle and valid driver's license as this position requires minimal travel between sites.

Working Conditions
Ability to perform the physical activities necessary to complete the essential functions of the job. Requires continual communication (hearing and talking, both in person and over the telephone). Requires good general vision. Most work will occur in an office setting, with occasional field work. Work will also involve frequent interruptions with urgent deadlines. Occasional travel outside the area is required.

Disclaimer   This job description is not an employment agreement or contract, and management reserves the right to modify when necessary per Bonner County policy.

 To be signed upon hire, transfer or promotion

I have reviewed and agree this Job Description accurately reflect the current responsibilities of my position. I also acknowledge that it will be placed in my Personnel File.

Signature: _____Date: _____

Please Print Name: _____