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## **PROFESSIONAL OBJECTIVE**

Information Technology expert seeking a position as an Information Systems Manager, Certification and Accreditation Analyst, or Information Technology Systems Engineer.

## **SUMMARY**

- Over 25 years of experience as an Information Technology specialist managing information systems security, planning, programs, policy, and risk assessments
- Certified Information Systems Security Professional (CISSP); ISC2
- Expert in National Institute of Standards and Technology, Department of Defense, and Air Force information assurance policy, publications and implementation
- Strong technical background in operating, maintaining and defending Federal, State, and Local Government networks

## **WORK EXPERIENCE**

### **Director, Information Systems**

#### **March 2013 - Present, City of North Platte & Lincoln County, North Platte, Nebraska**

- Streamlined enterprise server operations, using VMWare VSphere and ESXI virtualized 41 systems, reduced overhead, IT services downtime, and hardware footprint of the City and County networks.
- Re-engineered Lincoln County network infrastructure, reconfigured HP Procurve switches and Watchguard firewalls, eliminated multiple network choke points while improving network security.
- Designed and installed network fiber optic backbone, converted multiple sites from analog copper infrastructure to digital fiber, increased bandwidth, and stability while improving security.
- Designed backup and disaster recovery operations, implemented VEEAM Backup and Recovery, automated online backups, offsite recovery, and offline archival capabilities for over 18tb of data.
- Administrator for the Lincoln County Sherriff's network, maintained administrative support network, Records Management System, and facility control network, provided security and operations support.
- Managed implementation of City website, planned, organized, and controlled project resources to select, design and implement the City of North Platte website <http://www.ci.north-platte.ne.us>.
- Managed the migration of Windows, Active Directory, and Exchange to current standards, facilitated the modernization of 41 servers and over 500 enterprise network components.
- Implemented and managed inventory, compliance, and performance analysis system, identified and corrected licensing, and vulnerability deficiencies, while greatly improving overall system performance.
- Directed the Information Systems Department for the City of North Platte and Lincoln County, supervised 3 staff members in the execution of a \$584,000 annual operating budget.
- Administered the City's Utility Billing system, maintained SQL databases, application, and reporting servers, ensured timely and accurate utility bills, payment processing, and associated reports
- Implemented and administered the City's financial, payroll, planning and permitting, and human resources system, modernized City administrative systems, modernized support functions
- Enterprise security Manager, developed security program for the City and County enterprise; identified and remediated over 1000 network vulnerabilities using open source and in house actions.
- Conducted internal network penetration testing and security audit testing and analysis, developed quantitative risk assessments while increasing end user security awareness 99%.

## **Information Technology Officer**

### **March 2011- March 2013, National Weather Service, North Platte, Nebraska**

- System Administrator of the Automated Weather Information Processing System, implemented and maintained 23 Linux Red Hat based servers and workstations providing real-time weather analysis.
- Performed software development, converting local system configurations from legacy based Python, Perl, and shell script coding standards to modern Java, XML, and PHP formats.
- Implemented the first-ever local office 6 hour European Centre for Medium-Range Weather Forecast models, doubling weather data granularity for analysis without increasing raw data ingest.
- Implemented and maintained the ingest and processing of Nebraska Department of Roads mesonet, providing integrated access to over 100 near real time automated environmental monitoring stations.
- Managed the Weather Field Office's public and internal web servers, developing web pages using PHP, CSS, HTML, and SQL databases, ensured broadest dissemination of text and graphical products.
- Implemented specialized network monitoring software providing real-time system analysis, enabling all personnel to identify Windows, UNIX, Radar, and Weather sensor degradation or failures 24/7.
- Administrator of the Windows Servers and Workstations Active Directory, policies, and automation scripts, enabled ease of use, access controls, and baseline security for Field Office computer systems.
- Engineered storage solution, optimized access to extreme amounts of processed data enabling forecast profile visualization and frost point analysis critical to the prediction of snowfall using BUFKIT data.
- Re-allocated legacy equipment to develop a network monitoring and deep packet inspection host, utilizing open source applications NTOP and Wireshark to identify and correct network inefficiencies.
- Operated the Lincoln County SKYWARN spotter's network, coordinated storm spotter activities across the entire County Warning Area providing timely and accurate reports of severe weather to operations.

## **Air Force Information Assurance Policy Manager**

### **March, 2009- March 2011, Headquarters Air Force Network Integration Center, Scott AFB, Illinois**

- Air Force representative to Department of Defense Ports, Protocols and Services Technical Advisory Group, managed three person team drafting Secretary of Air Force Ports, Protocols and Services policy
- Directed Major Command actions and Wing level Information Assurance offices at 208 bases worldwide, provided over 3,000 personnel guidance to manage Air Force programs
- Developed Ipv6 blueprint for ports, protocols and services vulnerability analysis methodology, ensured security of evolving technology within the Air Force and Department of Defense networks
- Provided system risk analysis to Air Force Certification Authority as part of the Department of Defense Information Assurance Certification and Accreditation Process (DIACAP)
- Evaluated over 120 network modifications; performed risk management for Department of Defense systems and enforced federal systems information assurance control guidelines
- Authored information assurance policy for personal electronic devices, provided guidance to secure hand held tools used by logistics programs and other combatant commands
- Led four member team supporting 800 fielded programs, increasing Air Force Federal Information Systems Management Act compliance from 74% to 96%; exceeded 2009 goals
- Constructed & tested 500 United States Secret Service surveillance trip kits; supported 200 attendees and elected officials during Philadelphia Presidential G20 Summit
- Member of United States Secret Service communication support team installing 8 radio and communication sites; extended the New York City and Manhattan metropolitan area network for the President of the United States & 1000 United Nation protection members
- Supported 50 command posts; installed communication and computer systems for 196 world leaders and their motorcades during the 64<sup>th</sup> United Nations General Assembly

## **Information Assurance Manager**

**July, 2004 – February, 2009, Headquarters Air Force Weather Agency, Offutt Air Force Base, Nebraska**

- Established vulnerability management system and processes, identified 18k vulnerabilities, increased overall security posture of the \$300 million dollar Strategic Weather Center network by 70%
- Spearheaded efforts to verify 171 security countermeasures for 14 servers, obtained approval to operate for critical legacy weather sensors, minimized impact to flying operations at multiple bases
- Developed and implemented information security policies and procedures for 1000 employees, ensuring the confidentiality, availability and integrity of systems, applications and data in accordance with Department of Defense, Air Force and locally developed policy
- Provided guidance and training for customers regarding information security requirements for 33 fielded weather platforms and established future system security implementation requirements
- As Internal Systems Certifier, performed risk assessments and engineered detailed security solutions mitigating critical risks during the certification and accreditation process
- Evaluated contract proposals to determine compliance with Department of Defense and Air Force security requirements, identified critical contract deficiencies, assured organizational 8570 compliance
- Collaborated with application and database developers, executed Security Technical Implementation Guides to ensure required certification security controls were identified, implemented and tested
- Worked independently with Program Management Office on system security issues serving as configuration management strategies adviser during certification and accreditation process
- Managed Centers Emission Security (TEMPEST) program, inspected classified secure areas for unauthorized emanations, zero discrepancies found during Unit Compliance Inspection

## **Information Systems Security Manager**

**July, 2001 - July, 2004, Joint Analysis Center (JAC), Royal Air Force Base, Molesworth, England**

- Managed three personnel in the secure operation of an 8500 user classified Wide Area Network
- Provided training, guidance and oversight for over 50 Remote Terminal Security Officers across the European Command, enforced strict accountability of mission critical intelligence systems
- Performed first-line computer network defense and initial security incident investigations, efforts recognized by the Department of Defense Intelligence Information Systems Chief Information Officer
- Directed all security testing for the Joint Analysis Centers Imagery Exploitation Systems, direct involvement reduced testing time by 50%, returned systems to analysts 13 hours ahead of schedule
- Led security planning and engineering effort to integrate malicious logic protection plan, established stable virus protection and remediation actions for over 1000 critical intelligence network devices
- Developed and implemented standardized training qualification evaluation program for information system Administrators, established first measurable testing criteria for European Command
- DoDIIS trusted agent, implemented JWICS PKI encryption & authentication for all Joint Analysis Center and European Command users, enabled compartmentalization of sensitive information
- Engineered UNIX auditing scheme to meet Defense Intelligence Agency's revamped auditing guidance, decreased collection time by 30%, reduced audit storage space needs by over 99%
- Administrator of the mail and content filter servers, intrusion detection servers and the security division web servers, ensured secure, timely, and accurate, critical intelligence information delivery
- Conducted Security Readiness Reviews on Solaris, AIX, and SGI servers and workstations, developed secure baseline images distributed throughout the theaters classified networks
- Security administrator of the European Command Global Command and Control System, accomplished account creation, audit analysis, and user permissions activities for over 500 users
- Designed and administered the boundary protection infrastructure using Gauntlet Firewalls and Virtual Private Network technology for the JAC, European Command and four downrange intelligence units

## **Network Control Center Technician**

**July, 1998 – May, 2001, 49<sup>th</sup> Communications Squadron, Holloman Air Force Base, New Mexico**

- Network systems administrator and manager of the Metropolitan Area Network providing e-mail, file, print, and internet/intranet services to 4500 US and NATO users
- Installed, configured and administered the Base Information Protection Suite providing communications and network defense for over 1500 client and server systems
- Base firewall administrator, maintained internet protocol filters, proxy rules, and system maintenance of four Sidewinder firewalls; provided secure services for enclave services
- Managed the Metropolitan Area Network proxy servers, provided system administration for both Netscape and CacheFlow internet proxy servers; performed internet usage and monitoring oversight
- Performed vulnerability assessments and remediation actions for all network nodes, administered base Internet Security Scanner and Microsoft System Management Server
- Managed deployed network center providing communications services for 34 network servers, 1500 workstations and over 4000 American, British, and French deployed personnel
- Administered Microsoft information systems for Metropolitan Area Network
- Performed network management services, maintaining the base HP Openview servers providing real-time network health monitoring, reduced base network downtime by 30%
- Domain Name Service administrator ensuring reliable communications with internal and external clients
- Administrator for base backbone equipment, re-engineered and maintained 15 large scale CISCO ATM switches and over 30 hubs, switches and routers, greatly improved network throughput and reliability
- Maintained the primary internal and external router access control lists, providing reliable secure communications for local and long haul communications links
- Administered the base network encryption system, provided secure communications for the bases Secret and Top Secret networks for three operational group intelligence units
- Utilized Cisco Works to configure, monitor and correct network outages
- Lead engineer developing and implementing Prince Sultan Air Base, Saudi Arabia, network backbone infrastructure and upgrading network to Gigabit technology and layer 3 switching

## EDUCATION

- Bachelor of Science, Systems and Network Administration, Bellevue University
- Associate in Applied Science, Information Systems Technology, Community College of the Air Force

## TRAINING

### Professional/Technical Courses:

- 2020 NACo Enterprise Cybersecurity Leadership Academy
- 2010 DAU (IRM 101) DAWIA
- 2010 DAU (Acquisition 101) DAWIA
- 2008 Information Operations Fundamentals Application Course
- 2008 Implementing and Maintaining Active Directory Structures
- 2008 Cisco Networking
- 2008 Implementing and Managing Network Infrastructures
- 2008 Information Security
- 2008 Administration of SQL Databases
- 2008 Oracle Administration
- 2008 Management & Design of Database Systems
- 2008 Advanced UNIX Administration
- 2007 Introduction to Unix
- 2007 Structured System Analysis & Design
- 2007 Business Telecommunications
- 2006 TEMPEST For System/Facility design
- 2006 Network Management Services
- 2005 Emission Security Manager
- 2005 TEMPEST Fundamentals
- 2004 Learning Tree International Assessing Network Vulnerabilities
- 2004 New Horizons Fundamentals of Network Security
- 2004 Tyndall Non-Commissioned Officer Academy
- 2003 GCCS Solaris Security Administration
- 2003 Advanced Communications-Computer Systems Operations
- 2001 Cisco Network Academy Program
- 2001 Information Assurance Institute Information Protection Special Security Tools
- 1999 Advanced Cisco Router Configuration
- 1998 Apprentice Communications-Computer Systems Operations Specialist Course

## CERTIFICATION

- 2019 Certified Information Systems Security Professional (CISSP),

## AWARDS

### Performance/Achievement Awards:

2012 National Weather Service Cash award for Outstanding Performance  
2011 National Weather Service Time off award for Outstanding Performance  
2009 Air Force Weather Agency Senior Non-Commissioned Officer of the Quarter  
2008 Stripes for Exceptional Performers Promotion  
2008 Air Force Inspection Agency Superior Performer  
2005 Air Force Information Assurance Outstanding Professional of the Year  
2004 Air Force Information Assurance Non-Commissioned Officer of the Year  
2003 European Command Service Member of the Year  
2000 Randolph Air Force Base Communications and Information Professional of the Year

### *Military Decorations:*

- Meritorious Service Medal (1)
- Joint Service Commendation Medal (1)
- Air Force Commendation Medal (3)
- Air Force Achievement Medal (3)
- Air Force Good Conduct Medal (6)