Job Description

A Post Details:

Job Title: Senior Network Specialist	**Grade:** B003
Department: Technology	**Division:** A
Reports to: Networks Manager	**Contract Type:** Permanent
Level of Vetting: Security Check	**Numbers in Post:** 3
Welsh language required: No	

B Purpose of the Post:

To plan, design, implement and oversee the computer networks that support in-house voice, data, video and wireless services. Work closely with senior network engineers to design, implement, monitor, and troubleshoot the BTP network systems while working with 3rd parties.

Assist with the design, setup, and configuration of network systems and infrastructure. Monitor network performance and ensure system availability and reliability. Provide support and troubleshooting to resolve network-related issues. Assist with network upgrades, including hardware, software, and firmware. Document network configurations, procedures, and changes. Collaborate with the IT team to optimize and ensure the security of the network. Maintain up-to-date knowledge of new technologies, hardware, and software to ensure the efficiency and modernity of the network system. Provide end-user support and training when necessary. Manage and maintain the Wi-Fi networks.

C Dimensions of the Post:

Financial – Direct or Non-Direct

Non-Direct

Staff Responsibilities – Direct or Non-Direct

Non-Direct

Any Other Statistical Data

D Principal Accountabilities:

Skills Framework for the Information Age v8

Required level priority: ☐ Normal ☐ High

Development and implementation									
Systems development		0	1	2	3	4	5	6	7
Network design						☐			
Delivery and operation									
Technology management		0	1	2	3	4	5	6	7

	0	1	2	3	4	5	6	7
Network support					☐			
Security services	0	1	2	3	4	5	6	7
Security operations					☐			

Development and implementation

Systems development

Network design - 4: Enable
- Designs specific network components using agreed architectures, design standards, patterns and methodology.
- Translates logical designs into physical designs that meet specified operational parameters for capacity and performance.
- Reviews and verifies network designs against non-functional requirements, including validation and error correction procedures, access, security and audit controls.
- Contributes to the development of recovery routines and contingency procedures.
- Contributes to alternative network architectures, networking topologies and design options.

Delivery and operation

Technology management

Network support - 4: Enable
- Maintains the network support process and checks that all requests for support are dealt with according to agreed procedures.
- Ensures network configurations are applied to meet operational requirements in line with agreed procedures.
- Uses network management software and tools to investigate and diagnose network problems, collect performance statistics and create reports.

Security services

Security operations - 4: Enable
- Maintains operational security processes and checks that all requests for support are dealt with according to agreed procedures.
- Provides advice on defining access rights and the application and operation of elementary physical, procedural and technical security controls.
- Investigates security breaches in accordance with established procedures and recommends required actions.
- Provides support and checks that corrective actions are implemented.

E Decision Making:

Level 4 - By making decisions which influence the success of projects and team objectives, this level of decision making will pro-actively support delivery of projects/workstreams and subsequently have an impact on achieving organisational objectives.

F Contact with Others:

Internal

External

- Liaise with 3rd party vendors to manage and maintain network services, hardware, and software solutions.
- Coordinate with 3rd parties for issue resolution and timely delivery of services.

G Essential Criteria:

Qualifications and Training:

- Industry certification such as CISSP, CCSP, Azure Security, Architecture, Security+, Togaf, SABSA
- Educated to degree level in a specific IT or engineering discipline or equivalent experience
- Industry certification such as CISSP, CCSP, Azure Security, Architecture, Security+, Togaf, SABSA
- Obtained or working towards entry-level networking certifications like CCNA, CompTIA Network+, or JNCIA

Experience:

- Strong understanding of networking protocols, including TCP/IP, BGP, OSPF, and VLANs.
- Strong knowledge of cloud networking, such as AWS VPC or Azure VNet.
- In-depth knowledge of network security principles and best practices.
- Familiarity with software-defined networking (SDN) and network virtualization.
- Proficiency in network monitoring and management tools.

Business and Technical Skills:

BTP Skills Framework

Business

Communication - Expert: Extensive experience and diverse application

- Inspires trust and openness by being reliable, discreet and respecting confidentiality.
- Adapts influencing tactics to the motives and style of others (e.g. logical appeal, emotional appeal, etc.).
- Identifies and directs gathering the most critical information to inform development of opinions and insights.
- Delivers written and oral communications that engages audience participants and has impact.
- Analyses others' perspectives and needs and develops influence strategies and communications that create mutual benefits.
- Presents complex and difficult messages skilfully, using a variety of media and methods.
- Advises on team members' writing and speaking skills.

Influencing Others - Expert: Extensive experience and diverse application

- Evaluates and focuses on business opportunities likely to be of considerable strategic or long-term value.
- Adapts communication messages, methods and influence strategies to the person or audience.
- Adapts influencing tactics to the motives and style of others (logical appeal, emotional appeal, etc.).
- Utilises positive or negative influence strategies appropriately to garner support for key initiatives.
- Expands reach of influence by motivating others to focus on shared goals and a common

purpose.
- Uses knowledge of personalities and team dynamics to effectively solve problems and facilitate decision making.

Problem Solving - Expert: Extensive experience and diverse application
- Advises on root cause analysis principles to resolve key problems.
- Coaches team members in problem solving methods and practices.
- Transforms problems into opportunities for organisational learning.
- Establishes and leads teams to solve complex problems.
- Collaborates across groups to maximise effectiveness of problem solving approaches.

Technical Specialisms

Cloud Platform

Microsoft Azure - Expert: Extensive experience and diverse application
- Assesses and evaluates on-premise infrastructure, determines what needs to be migrated to Azure and plans the integration with existing on-premise systems, such as Active Directory.
- Plans and coordinates migration of data and applications to the cloud and leads Azure environment setup for hosting.
- Provides support for complex or unusual problems, working with Microsoft when necessary.
- Implements migrations, manages the changes to processes and practices and manages the impact on business operations.
- Assesses risks and consequences of platform failure and develops recovery plans.

Networking Technologies

Firewall Management Solutions - Expert: Extensive experience and diverse application
- Determines firewall policies and updates the rules to reflect changes in the network or security requirements.
- Oversees audit of firewall policies and configurations to ensure that they are up-to-date and effective in protecting the network against threats.
- Responds to potential security threats and anomalies. Analyses network traffic patterns, identifies unauthorised access attempts and responds to security incidents.
- Examines planned network infrastructure changes and assesses their potential impact on firewall protection.
- Assesses risks and consequences of firewall failure and develops mitigating action plans.

Local Area Networks (LANs) - Working: Hands-on experience and application.
- Reviews devices and equipment connecting to and supporting the local area network.
- Installs and configures basic devices forming part of a LAN.
- Monitors LAN traffic and performance; troubleshoots and resolves common network problems.
- Explains network traffic access and the configuration options involved with local area networks.
- Tests devices and equipment connecting to the network for compliance with security requirements.

Wide Area Networks (WANs) - Working: Hands-on experience and application.
- Reviews devices and equipment connecting to and supporting the wide area network.
- Installs and configures basic devices forming part of a WAN.
- Monitors WAN traffic and performance; troubleshoots and resolves common network problems.
- Explains network traffic access and the configuration options involved with wide area networks.

- Tests devices and equipment connecting to the network for compliance with security requirements.

Knowledge:

- Comprehensive knowledge of network security best practices, including the configuration of firewalls, VPNs, and implementation of security protocols to safeguard enterprise-level networks.
- In-depth understanding of key networking protocols including TCP/IP, HTTP, DNS, and DHCP, and how they integrate into large-scale networks.
- Proficient in designing, implementing, and resolving complex issues with routers, switches, and firewalls, including high-availability and load-balancing configurations.

Desirable Criteria:

- Excellent problem-solving abilities and the capacity to diagnose and resolve complex network issues.
- Exceptional communication skills for collaborating with cross-functional teams and conveying technical information to non-technical stakeholders.
- Project management skills for planning and executing network-related projects.
- Strong documentation skills to maintain network configurations and procedures.

H Additional Information:

Participation in an on-call rota to provide out-of-hours triage, diagnostics, and remedial work in their specialist field plus, plus attendance on site if deemed necessary for operational reasons.

For Panel to complete only:
Line Manager Approval: James Morley
Panel Approval: BTP Reward Team
Date: 2024-01-17

Email the Job Evaluation submission form together with supporting documentation (organisational charts, job descriptions) to People & Culture Policy & Reward inbox.
PolicyandReward@btp.police.uk

You will be advised of a panel date following receipt of the submission.