BRITISH TRANSPORT POLICE

HR8:1.3
Version 1.2

JOB DESCRIPTION

APPENDIX C

Before completing this form, please read the BTP *'Guide to writing job descriptions for Police Staff roles'* Appendix B to the SOP.

A. POST DETAILS:

Job Title:	Infrastructure Architect	Current Grade:	C001
Department:	Technology	Area:	Force Headquarters
Reports To:	Enterprise Architect	No of Posts:	1
Level of vetting:	MV	Post Number(s):	TBC

B. PURPOSE OF THE POST: *Why the post exists and what it has to achieve*

To work with the Architecture and Infrastructure Teams, and their 3rd party providers of server, cloud and storage technologies to design and communicate the structures that enable the implementation and integration of our private cloud into a hybrid cloud solution.

To work with all parties to ensure a smooth transition from the AS IS to the TO BE. To work with the Service Delivery team to define the service, process and operating models required to support the clouds and cloud services.

To work with the Test Manager to define appropriate infrastructure acceptance tests for the implementation of infrastructure and cloud services, such as Office 365. To validate infrastructure designs for cloud based virtual data centres for a number of functions.

The End User Compute (Office 365) and Cloud migration programmes will require the design and definition of the virtual and physical datacentre environments to support the rollout of the new personal computing environment and the migration of on premise, to government cloud or private cloud hosting environments. Working with the Network Architect, the Infrastructure Architect would be expected to provide guidance on the configuration of the physical and the virtual appliances required to manage and protect the environments, in accordance with the strategic IT direction.

The production of infrastructure designs and design policies, strategies, architectures and documentation to support business requirements and strategy.

The development and exploitation of expertise in any specific area of technology, technique, method, product or application area.

C. DIMENSIONS OF THE POST: *The key statistics associated with the post*

Financial – Direct or Non-Direct
Direct: None

Indirect: None

Staff Responsibilities – Direct or Non-Direct
Direct: None

Indirect: Occasional responsibility for supervising the work of 3rd party specialists assigned to particular support contracts or projects

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Any Other Statistical Data

D. **PRINCIPAL ACCOUNTABILITIES:** *What the job is accountable for and required to deliver*

Skills Framework for the Information Age

The Skills Framework for the Information Age (SFIA) provides a common reference model for the identification of the skills needed to develop effective Information Systems (IS) making use of Information Communications Technologies (ICT).

Strategy and architecture								
Information strategy	0	1	2	3	4	5	6	7
IT governance						☐		
Information security					☐			
Advice and guidance	0	1	2	3	4	5	6	7
Technical specialism							☐	
Technical strategy and planning	0	1	2	3	4	5	6	7
Emerging technology monitoring						☐		
Solution architecture						☐		

Strategy and architecture

Information strategy

IT governance - Level 5: Ensure, advise:

- Reviews information systems for compliance with legislation and specifies any required changes.
- Responsible for ensuring compliance with organisational policies and procedures and overall information management strategy.

Information security - Level 4: Enable:

- Conducts security risk and vulnerability assessments for defined business applications or IT installations in defined areas, and provides advice and guidance on the application and operation of elementary physical, procedural and technical security controls (e.g the key controls defined in ISO27001).
- Performs risk and vulnerability assessments, and business impact analysis for medium size information systems.
- Investigates suspected attacks and manages security incidents.

Advice and guidance

Technical specialism - Level 6: Initiate, influence:

- Provides organisational leadership and guidelines to promote the development and exploitation of technical knowledge in the organisation.

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Technical strategy and planning

Emerging technology monitoring - Level 5: Ensure, advise:

- Monitors the market to gain knowledge and understanding of currently emerging technologies.
- Identifies new and emerging hardware and software technologies and products based on own area of expertise, assesses their relevance and potential value to the organisation, contributes to briefings of staff and management.

Solution architecture - Level 5: Ensure, advise:

- Uses appropriate tools, including logical models of components and interfaces, to contribute to the development of systems architectures in specific business or functional areas.
- Produces detailed component specifications and translates these into detailed designs for implementation using selected products.
- Within a business change programme, assists in the preparation of technical plans and cooperates with business assurance and project staff to ensure that appropriate technical resources are made available.
- Provides advice on technical aspects of system development and integration (including requests for changes, deviations from specifications, etc.) and ensures that relevant technical strategies, policies, standards and practices are applied correctly.

E. **LEVELS OF RESPONSIBILITY:** *This is a SFIA Level 5 Role*

- Autonomy - Works under broad direction. Work is often self-initiated. Is fully accountable for meeting allocated technical and/or project/supervisory objectives. Establishes milestones and has a significant role in the delegation of responsibilities.
- Influence - Influences organisation, customers, suppliers, partners and peers on the contribution of own specialism. Builds appropriate and effective business relationships. Makes decisions which impact the success of assigned projects i.e. results, deadlines and budget. Has significant influence over the allocation and management of resources appropriate to given assignments.
- Complexity - Performs an extensive range and variety of complex technical and/or professional work activities. Undertakes work which requires the application of fundamental principles in a wide and often unpredictable range of contexts. Understands the relationship between own specialism and wider customer/organisational requirements.
- Business Skills - Advises on the available standards, methods, tools and applications relevant to own specialism and can make appropriate choices from alternatives. Analyses, designs, plans, executes and evaluates work to time, cost and quality targets. Assesses and evaluates risk. Communicates effectively, both formally and informally. Demonstrates leadership. Facilitates collaboration between stakeholders who have diverse objectives. Understands the relevance of own area of responsibility/specialism to the employing organisation. Takes customer requirements into account when making proposals. Takes initiative to keep skills up to date. Mentors colleagues. Maintains an awareness of developments in the industry. Analyses requirements and advises on scope and options for continuous operational improvement. Demonstrates creativity and innovation in applying solutions for the benefit of the customer/stakeholder. Takes account of relevant legislation.

F. **CONTACT WITH OTHERS:** *The frequent contacts the post holder has with others and for what purpose*
Internal
Contact with officers and staff of all levels.

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External

Contact with counterparts within Home Office Forces and the wider technology community.

G. **REQUIREMENTS:** *The skills, knowledge, experience, qualifications and training required to perform the job.*

Qualifications and Training:

Educated to degree level in a specific IT or engineering discipline or equivalent experience
Accredited to ITIL Foundation Level or higher

Experience:

Experience of translating technical requirements into business language.

Experience of designing infrastructure architecture.

Experience of working with a range of infrastructure technologies.

Knowledge:

Good knowledge of core networking technologies together with an understanding of the key technology providers.
Good knowledge of encryption methodologies and data use in a secure environments.
Good knowledge of Microsoft's product offerings including high level capabilities and competitor products

Skills:

Ability to translate technical requirements.

Excellent documentation skills.

BTP Framework

Technical	0	1	2	3	4
Cloud migration (Office 365 and/or Azure)					☐
Cloud Solutions				☐	
Hyper-V / Azure				☐	
MS Office Suite				☐	
Private, Public and Secure Cloud Computing				☐	

Technical

Cloud migration (Office 365 and/or Azure) - Level 4: Subject matter depth and breadth

Cloud Solutions - Level 3: Extensive Experience

Hyper-V / Azure - Level 3: Extensive Experience

MS Office Suite - Level 3: Extensive Experience

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Private, Public and Secure Cloud Computing - Level 3: Extensive Experience

H.	**AUTHORISATION DETAILS:**		
	Prepared By:	J. Chadwicj	Date:
	Area Commander /FHQ HoD:		Date:
	Evaluation Panel:		Date:

Appendix: Legend

☐ High priority

☐ Normal priority

☐ Low priority

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