

Job Description	
Position	Principal Engineer (Infrastructure DevOps)
Department	Technical Services
Division	Information Services

SUMMARY OF RESPONSIBILITIES

To provides deep technical expertise and is tasked with the responsibility for the co-planning, co-design, implementation, operations and on-going maintenance of the new Data Center and Campus covering the on-premise virtualization platform, compute, fiber-channel based storage, enterprise backup and the consumption of ancillary Cloud services.

Additionally, the candidate will be required to be a mentor to other team members.

KEY AREAS OF RESPONSIBILITIES

- Key participant in a cross-functional team (consisting of network, storage, compute, security) which will be leading the planning, design, implementation and operations of our Future State Architecture (FSA).
- Future State Architecture will cover the following minimally: product selection of compute, fiber-channel storage arrays, enterprise backup appliances, physical and logical placement of systems elements, design and implementation of ancillary tools and services such as Jenkins, Spinnaker, Terraform, Vagrant, Postgres + Corosync, Postfix, DHCP, DNS, NTP, Grafana and syslog collectors among others.
- Responsible for the detailed planning and execution of the multi-year phased services migration (JomPAY, FPX, DuitNow et al) to the Future State Architecture with minimal downtime from a systems perspective.
- Keep abreast on emerging systems technologies which may be appropriate for adoption which would supplement our agility and provide the foundation to execute organization goals in an expedited manner.
- Acts as the deployment lead for the design, installation, operation, service and maintenance of any BAU systems solution and implementation (across various layers).
- May lead systems integration with external entities to ensure a successful implementation, when necessary.
- Participates in any computer emergency response team in response to various security incidents such as denial of service attacks, malware infestations and internal fraud attempts.
- To build the foundation to facilitate automated patch updates across the infrastructure.
- To build and enhance the systems monitoring capability: capacity, response and service degradation.
- To maintain an accurate record reflecting the current and historical systems settings including the decision making rationale for said configuration.
- To inculcate the best practices, operational discipline and guidelines across the systems team.
- To participate in yearly audit exercises and ensure requirements are adhered to at all times.

Organizational (organizational responsibilities)

- To participate in other working groups of small projects undertaken by the division on issues with regards to Systems Architecture & Design

QUALIFICATIONS

Minimum Qualifications

- Degree in Computer Science with a minimum of 7 years of relevant work experience, preferably in a high pressured System Integrator environment – exceptional self starters will be considered.
- RHCE or Linux Professional Institute certification would be an added advantage.
- Experience in the IT banking and Telecommunications sector would be an added advantage.

Technical Qualifications

- Advanced level knowledge across RedHat Linux and Windows Server OS platforms.
- Experienced architecting and designing from ground zero a resilient, highly available and low latency infrastructure on a VMware (ESXI) or RedHat Virtualization (RHV) platform.
- Must be adept at programming in at least one language: Python, Ruby, Perl or advanced shell scripting.
- Mandatory experience performing systems automation using Ansible (preferable) / Chef / Puppet to drive any of the following: system deployment, operating system hardening, software management or patch deployment in a Continuous Integration and Continuous Deployment fashion.
- Implementation experience with:- Active Directory, SMTP, LDAP, DHCP, HTTPS, DNS, the open source software ecosystem covering Jenkins, Spinnaker, Terraform, Vagrant, Grafana, Apache, Squid, Tomcat, Nginx, HA-Proxy, Postfix, Oracle Web Logic, Prometheus, Elastic Search, Logstash, Kibana and JBoss among others.
- Experienced performing systems based performance bottleneck analysis and remediation:- vmstat, iostat, lsof, sar, collectl and sysblock.
- Implementation experience with Cloud offerings from AWS and GCP such as EC2, S3, Route53, ELB, DBaaS would be an advantage.

Additional Requirements:

- Effective communication skills.
- Extremely diligent, fine eye for details, supreme problem solving capabilities and a team player.