

Job Description	
<b>Position</b>	Principal Engineer, Hypervisors, Backup & UNIX Systems
<b>Department</b>	Technical Services
<b>Division</b>	Information Services

### Summary of responsibilities

The designated Automation Engineer 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.

### 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.
  1. Adjusts one's interaction style to suit target group preferences.
  2. Demonstrates patience and listens attentively to others' opinions and suggestions.
  3. Uses multiple communication strategies and methodologies to promote dialogue, create understanding and gain buy in from stakeholders.