Ohio | **Public Utilities Commission**

DIS Case Number: 22-0169-EL-CRS

Section A: Application Information

Section B: Applicant Managerial Capability and Experience

Section C: Applicant Financial Capability and Experience

Section D: Applicant Technical Capacity

D-2. Operations Expertise & Key Technical Personnel

Given the operational nature of the applicant's business, provide evidence of the applicant's experience and technical expertise in performing such operations. Include the names, titles, e-mail addresses, and background of key personnel involved in the operations of the applicant's business.

File(s) attached

Application Attachments

ALEX KUSHNIR
P: 718-554-0565
kushin77@gmail.com
Brooklyn NY 11234
Lead Cloud Architect

Optimization Management Specialist in Systems Engineering and Architecture in a Windows, UNIX Cisco, and Virtual Environment.

Seeking a challenging role within an organization that values team focus, training ability, initiative, integrity, strong work ethic, and dedication to excellence in providing top-notch technical support for long-range business goals.

AREAS OF EXPERTISE

The finance industry, Cloud Computing, (AAS) As a service model, AWS Connect. Micro-services, Docker, containerization, Ci/CD, Jenkins, AWS -Azure, migrations, Principal designer, Project leadership, Defining architecture standards, DR Design, Desktop in the cloud ITSM/Service Now Cloud, HyperV, SRM, Open-stack, Storage Clustered Data, Netapp, EMC Products, Data Modeler, Application architecture, Conversion/Migration, Defining optimization opportunities, financial/technical planning, Corporate optimization, Network Planning/Engineering, Automation, Server Administration, Software Deployment, Staff Training/Leadership, Citrix, Citrix Netscaler, Cisco Systems, Apache, Java, J2E, Middleware, Tomcat, JVM, IIS, MSSQL, Outlook, Lync, Desktop Architecture, Sybase, Oracle, Mysql, Data Security/Backup, Network Security, System, Remote Networking, Linux/Unix architecture configuration & support, Help Desk Management

SELECTED PROJECTS AND ACHIEVEMENTS:

Project leadership and management.
Cross-train team and educate on new protocols.
IAM Management deployment and support
Manage security of hundreds of accounts across AWS, Azure, and GCP
Peta byte Data migration planning and execution
Solutions in multi-continental and all within heterogeneous environments.
Cloud Computing, Amazon Web Services.
Designed architect disaster recovery and backup strategies.
Middle-ware support, migrations, and upgrades
Large-scale storage migrations with multiple platforms and file systems.
Leverage skills across multiple areas of expertise while designing complex solutions.
Designing high-performing and flexible systems.
Hands-on Infrastructure Design Team Lead, senior systems engineer/architect
Design and implementation of enterprise work-flow systems
Distributed, intranet-net/Internet, and communication architectures.
Combined technologies such as SAN, VMware, Solaris Zones to significantly reduce costs on existing infrastructure and maximize utilization.
Manage Design, develop and deploy Corporate Knowledge base.

TECHNOLOGY'S MANAGED

Disaster Recovery, Cloud, IAAS, HyperV, Hitachi, Openstack, EMC Vmax, Vplex, Vnx, Data Domain, Clarion, Celerra, Avamar, Vmware, Netbackup, Netapp, CDOT, ITSM/Service Now, AWS, Azure Cloud, AWS Connect. Clustered Data ONTAP, Avamar, DPA, SRM, SCCM, Solaris Zones, Apache, Tomcat, JVM, IIS, MSSQL, Sybase, Oracle, Mysql, AIX, Mainframe LPAR, Citrix, Zen, Citrix Netscaler, Unix/Linux Windows 20XX, GROUP POLICY, MS Exchange, IIS 5.0 5.5, NLB, VCS clustering, BigIp, MS SQL 7.0,20XX, Vbscript/Bat Script, VPN, SSL, CA, EAP, ISA, IPSEC, SUS, RAS, RIS, L2TP, APC, Charm/ITSM, Java, J2E, Middleware, Tomcat, JVM Desktop Architecture, Cisco router, PIX Firewalls, Oracle, HP OpenView, Solar winds, TCP/IP, SUBNETTING, Active Directory, Outlook, Lync, DFS, MSCHAPV1, V2, Linux, Suse, Citrix Metaframe, Citrix Netscaler, PERL script

Lead Cloud Architect	**New York Life**	**Remote**	**04/20 – Present**

Project SOA for all amazon suite AWS

- Design and implement migration strategies from on-prem to cloud.

- Help devise enterprise cloud model.
- Worked closely with CISO to develop a security protocol
- Work with application developers and system architects to re-engineer products for the cloud.
- Work to establish Identity access protocol for enterprise
- Designing and deploying dynamically scalable, highly available, fault-tolerant, and reliable applications.
- Let multi-pillar, cross-organizational technical teams in solving complex customer escalations.
- Have practical knowledge of IT infrastructure and a proven ability to manage the quality, performance, availability, and integrity aspects of designed application solutions
- Possess excellent team-leading, analytical, and communication skills
- Establishing, maintaining, and publishing customer communications related to the cloud architecture
- Create detailed short and long term roadmaps (1-5 years)
- Be Responsible for Cloud governance, auditing, monitoring, planning, and assessment
- Drive scope and timeliness of significant projects
- Create project scope, timelines, milestones, and detail all deliverables
- Demonstrate customer focus by quickly analyzing and fixing virtualization and public cloud-related issues reported by customers, internal and external
- Resolve incidents within a defined timeframe established by the department
- Develop, evaluate, disseminate and integrate new standards, specifications, and technologies into existing processes and methodologies
- Lead information sharing sessions to give new best practices and public cloud services

Enterprise Lead Architect   Wipro   NJ   01/18 – 04-20

Architect and Design Public cloud services such as AWS, Azure, and Google Cloud Platform, deploying security policies for rapid time to value with the ability to scale security and compliance for fluid multi-cloud environments while supporting on-prem hosted solutions in hybrid mode.

- I analyzed and remediated Identity Access IAM issues.
- Manage security of hundreds of accounts across AWS, Azure, and GCP.
- Designed Amazon Connect, allowing agents to immediately use AWS services with Amazon Connect to automate interactions while improving service level delivery.
- Deployed to Receive alert notification reports of changes in security since the last scan
- Remediation of non-compliant cloud resource configurations automatically within minutes
- Retain control while providing the visibility your stakeholders require.
- Secure the multi-cloud resources the apps consume – then keep that permanent.
- Define and manage the associated risks and can close security gaps quickly.
- Instill governance without holding up the agility the business demands.

Analyzed IAM information and looked to correct metrics. Converted from large environments to IAAS - microservices when applicable using docker, docker swarm, and Kubernetes, using automation delivery with Chef and cloud formation. Designed and supported data protection and securing data in the cloud, logging, spunk, DR, Loss prevention, encryption, Created a plan to move all data from target to source, monitor the traffic to ensure proper delivery, test data on the landing zone, and ensure availability.
Analyze and create visual and logical architectures designed for ITIL efforts. Determining the release of Service Now updates, confirming implementation phases, and identifying opportunities to align with Service Portfolio and Catalog efforts, business Service hierarchy.

Managed, secure cloud desktop service using Amazon WorkSpaces. Provision Windows desktop to provide Workspace to employees globally.

Operate as Lead solutions architect designing future environments, analyzing technical reporting for networking and utilization, and migrating heterogeneous environments from on-prem into cloud infrastructure. Focused on AWS/AZURE CHEF, Cloud formation, Ansible tower, Power Shell, and GitHub to deliver next-generation micro-service domain on autopilot while having complete version control of multiple fields with on-demand delivery and upgrade/downgrade. The main goal is to create the strategies, prepare the build, own all artifacts, and report all tower leads to me. Handoff and Train Dev Ops teams. Docker, Kubernetes implementation into AWS and Azure

Lead Solutions Architect   Price Water House   FL/NYC   4/16-01/18

Worked with BMC Cloud security for scoring and remediation of public cloud services such as AWS, Azure, and Google Cloud Platform, deploying security policies for rapid time to value with the ability to scale security and compliance for fluid multi-cloud environments

Designed delivered Amazon Connect to integrate with systems such as customer relationship management (CRM), workforce optimization (WFO), and workforce management (WFM) systems. Used AWS Lambda to access back-end systems to personalize automated experiences and provide conversation history to agents as customers
[OBJ]

Using BMC to provide a quick ability to Assess enterprise-wide multi-cloud security from an intuitive UI

Use comprehensive policies from the Center for Internet Security to realize Secure value containers at multiple layers quickly.

- Report directly to C level on PWC.
- Visualize, assess, and report on cloud security posture across multiple platforms, accounts, and apps.
- Deliver Filtered violations by severity, platform, account, and more to remediation of those with the most significant risk.
- Receive alert notification reports of new security violations within the last 24 hours
- Use AWS, Azure, and GCP cloud connectors for complete visibility into cloud resources and services such as AWS.
- IAM Credentials, KMS, and RDS
- Use standards-based security policies to consistently, securely configure multi-cloud resources and containers.
- Create custom compliance policies to meet the security demands unique to your organization
- Deliver container security at multiple layers, from Kubernetes clusters down to Docker images
- Configure cloud resources and containers consistently, securely, and with an audit trail [OBJ]
- Define security requirements, customize them, or create your policies
- Standardize security across the enterprise to deliver consistency and security across platforms, accounts, and lines of business
- Use RBAC (role-based access controls) to give the appropriate privileges for stakeholders
- Manage Docker and Kubernetes container security at the cluster, host, daemon, image, and container level
- Provide security and compliance tests on-demand, allowing businesses to get complete visibility into their cloud security posture across all their cloud resources and services
- Provide integrated True Sight Cloud Security API security assessments with CSP infrastructure for immediate policy decisions
- Offer preemptive security and compliance monitoring with notifications and alerts
- Receive alert notification reports of new security violations within the last 24 hours
- Management of Dec-ops team, the Delivery team, as well as MIM issues. 15-20 people.
- Lead Architect responsible for 5 SME architects
- focuses on cloud data protection supporting encryption tools and teams for delivery and management. Consult with different internal teams in the cloud and strategy space planning on best practices around cloud security.
- provide and deliver best practices, securing of data in a cloud environment
- Lead Manage Design AWS/Azure IAAS environments
- Designed and delivered AWS WorkSpaces to a global audience.
- Lead in micro-services delivery, deployment, design, and support using Chef, cloud formation, docker, and docker swarm.
- Architect and provide extended support for On-prem migration of over 2500 physical/virtual servers into hybrid cloud. In NA and another 1500 enterprise-wide with 15-20 petabytes of storage migrated covered all IS environment.
- Lead Major incident management team (MIM). v Realize Cloud Suite of products, including v Realize Automation and Orchestrator. Support, management.
- Dell EMC, XTREME, NET APP, DELL ECS, NETAPP.
- Large data migration as well as DB data migration planning, securing, preparing, delivering, testing.
- Supported All networking environments and related issues. Was Key on network project management alliance.
- Used HP open view to monitor environments. Was part of the upgrade and implementation of OpenView.
- Responsible for ensuring that high and low-level designs are completed with little to no oversight by customer
- Post-check production go-live for all deployments to ensure production deployment was executed per design,
- All critical or urgent changes go thru a rigorous oversight to ensure there is appropriate planning.
- Participate in the Pr-Cab for all significant/critical or urgent changes.
- Lead innovation concepts and present to the customer
- Partner with leadership on a technical competency development plan for architects, engineers, and operations associates.
- Maintain relationships with Center of Excellence teams, Alliance team, and Alliance Partners
- Maintain relationships with Customer Technology leadership
- Assist IS Delivery team to frame technology solutions with the customer
- managed on-prem migrations using VMware, Avamar EMC chef in Linux and Windows environments to deliver microservices into the cloud.

Lead Solutions Architect   **SunGard**   **NY-NJ**   **11/14-4/16**

Participated as the lead in Event/Incident Management, bringing required teams to assess and facilitate recovery. Communicate remediation activity to management and stakeholders to full recovery: facilitated post Incident root causes analysis and proactive future issue recurrence. Meet with stakeholders as well as support staff to assure preventative measures and hard fixes are implemented promptly. Monitored systems using HP open view and HP ADDM for application monitoring, replacing BMC and HP Discovery. Responsible for managing team of 10 OS/network/storage/DBA/ engineers. Helped design controls for compliance, implementing encryption technologies, managing PCI environments
Oversee maintain, expand and support AIX, Solaris, Linux, and windows ITSM/Service Now architectural migrations, Desktop Architecture, Vmware, design, and projects management for the environment while ensuring cohesion between team direction and business needs. Providing enterprise standards for Disaster recovery in architecture, design, managed implementation on many platforms. Managed and supported VDI for end users globally. Developed AWS, Azure delivery system, and pilots. Working with collaborating and supporting the client to design, document properly, and implement solutions.

DTL Master Enterprise Architect   **Bank of America**   **NYC**   **04/13 – 11/14**

- Built managed and migrated VM cloud Hyper V SRM platform environment
- Managed SME architects network/storage/OS/security/snow
- Designed, Developed architect, and managed the implementation of Disaster Recovery requirements. Designed recovery strategies alongside detailed recovery procedure artifacts and protocols. Testing of protocols during recovery test to validate a proper design,
- Implemented Amazon Cloud Services for on-demand Cloud environments.
- Provide best practices, securing of data in a cloud environment. Design controls for compliance, implement encryption technologies, ensure PCI compliance.
- Setup and support of ITSM and CHARM in SAP Solution Manager
- Managing and supporting Risk, finance, private bank, ATM applications.
- ITSM/Service Now migrations upgrade deployment.
- Predictive data modeling.
- Help develop processes for identifying, assessing, and prioritizing technology innovation opportunities.
- Migrated supported and designed storage with Open stack, Hitachi, Vmax, Vplex, Vnx, Clarion, Celerra, Avamar.
- Designed and supported Data Domain boost, Encryption, Retention, de-duplication, tape library.
- Designed net backup strategies
- Identify & help manage key third-party partnerships to realize our vision
- Middleware and DB design migration and support with Apache, Java, J2E, Middleware, Tomcat, JJVM, IIS, MySQL, Sybase, Oracle, Mysql, Outlook, Lynx and Desktop Architecture,
- Help to define approaches to evaluate new initiatives at a fast pace/low cost for feedback/learning
- Work with Business Solutions to tailor the software development process to optimize the delivery of innovation pilots while still ensuring on-time, on-scope, and on-budget delivery of projects
- Collaborate with key stakeholders to define success criteria and pilot metrics
- Manage pilots including scope/resources to ensure on-time/on scope/on-budget delivery
- Coordinate with operations on the pilot implementation & launch
- Facilitate the transition of successful innovation pilots to IT
- Manage the technology innovation pilot portfolio, including pipeline activity and the prioritization of new potential solutions as they enter our innovation pipeline
- Manage technology innovation projects throughout their life cycle, including:
- Managed Citrix migration efforts
- TCP/IP architecture design and implementation.
- Smooth transition to a clustered Data ON TAP storage operating system and delivered non-disruptive operations (NDO). Add massive scale that can accommodate mixed workloads and multiple SLAs on a shared infrastructure to gain unparalleled performance, mobility, and availability without any disruption to daily operations.
- Creating & managing project plans for pilots, proofs-of-concept, and tests
- Creating & managing project budgets (capital & expense)
- Providing Leadership to resources for Innovation projects
- Managing project scope & key assumptions
- Managing the design, iterative development, and testing process
- Providing Leadership to internal & external development resources to deliver on pilot objectives
- Developing, measuring against, and reporting on crucial pilot performance metrics
- Assessing and communicating key risk areas and mitigation strategies
- Communicating with key stakeholders in Enterprise Operations, Enterprise Marketing, the brands, and the learning

labs
- Creating key artifacts to support the transition of successful pilots to the IT Development – teams
- Proactively communicate with IT Leadership team members as appropriate regarding Pilot and Innovation initiatives.

Solutions Architect,   **AIG**   **NYC**   **3/2011 – 3/29/13**

Oversee maintain, expand and support all AIX, Solaris, Linux, and Windows AWS architectural migrations, design, and project management for the environment while ensuring cohesion between team direction and business needs. Providing enterprise standards for Disaster recovery in architecture, design, managed implementation on many platforms. Working with collaborating and supporting the client to design, document properly, and implement solutions.

Integrated systems are planning and recommending new technologies with new and current approaches to support all levels of goals, needs, and requirements. Strategic Storage and backup design involving EMC, Open stack, Hitachi, Vmax, Vplex, Vnx, Data Domain, Clarion, Celerra ARC serve, Avamar, Net backup, and Legato. Predictive data modeling, Middleware, DB design migration, and support with Apache, Java, J2E, Middleware, Tomcat, JVM, IIS, MySQL, Sybase, Outlook, Lynx, Oracle, Mysql. Designed and supported Data Domain boost, Encryption, Retention, deduplication, tape library, as well as developed net backup strategies

Used Visio to design environments, Used BMC to monitor and manage systems and create comprehensive environmental reports.

Designed and configured Virtual cloud infrastructure using VMware Hyper V ESXI(HA)SRM, Solaris zones, EMC Storage, AIX LPAR's, and built OS platform images for heterogeneous environments.

Managed and supported web servers, database servers, network security and protocols, DMZ, routing WAN/LAN lockdown of ports and services.

Migrated and upgraded Citrix environment, such as Citrix Netscaler, Citrix Met frame.

Pushing a quality mindset of establishing and enforcing approved processes to maximize the benefit of related business investments in technology while complying with all regulations.

Optimization of the IT investments for BA apps, products, infrastructure to enhance operational effectiveness and reduce costs. TCP/IP design and implementation.

Worked closely with vendors, SR management, and SA teams to ensure proper and timely execution of goals. Ensured documentation was completed for each effort.

Solutions Architect.   **Citigroup**   **Remote**   **Sep 2008-Jan 2011**

Providing support and development of software business requirements and design specifications, security, integration, testing, and documentation while adhering to quality assurance and the highest standards.

Datacenter migration focused on Apache, Tomcat or IIS, EMC Storage, VMware ESX V Motion, V Sphere (HA), Exchange, and Solaris Zones. Consolidation within a Unix/Linux and Windows 2008,2010, AIX, Mainframe LPAR, environments.

Recommended appropriate OS platform, workstations, and communication options required for distribution and client service processes.

Designed several Microsoft SQL 2008 and SQL2005 clusters with EMC SAN as backed storage, certified data integrity in EMC SRDF replications set up, and supported various bank sectors, including Finance, Risk, TI, Private bank.

Level setting different opportunities for integration as well as selecting tools overall for the technology standards while specifying shared data resources as well as defining the interfaces and data paths and endpoints

Optimization effort consisted of optimizing using SAN/NAS, VMware, or Solaris zones building Testing, Development and Production environments including failover, load balancing, Big IP, storage, databases, and web-based front end application on Linux/Unix/Windows for Apache, Tomcat, or IIS. In most cases, automation was required using Perl, Bash, Python, VBA, WSH scripting for heterogeneous environments, optimized disaster recovery scenarios.

Ensuring architecture reviews are performed and approving systems designs.

Worked closely with networking teams to ensure proper security measures were taken when opening ports on the firewall, placing servers within DMZ when required, assuring bandwidth was available, network security.

Designed and developed a web-based Central Knowledge base (WIKI) running on Red hat for a dynamic reporting system feeding off all other reporting systems for comprehensive TCO, ROI, and Knowledge base Wikipedia and developed financial and technical reports to explain savings and reduction of charges in dollars and volume. Words also gave us projections.

Systems Engineer/Analyst, Coach, Inc.   **Apr 2007 - Sep 2008**

Migration of all Coach infrastructure worldwide, intertwined with the client, vendors, users, and their support groups, to upgrade, migrate, implement, and design their new data center.

Managed, designed, Configured, maintained, and supported VMware ESX servers and building servers within the ESX environment.

Managing Server migration projects from physical to virtual machine (P2V). Working with network team to plan and provision LAN/San drops for server environments.

Knowledge management of all Technical writing for all projects, big or small, is a primary function of my position and provides design documentation as to what other systems are connected. Technical training of new environments that are in transition to the server administration team is the primary focus.

Supported all Linux/Solaris/Windows systems, Managed projects with technologies such as LDAP, Apache, Oracle, Hp open view NNM, NAS/SAN, Active Directory, Group Policy, DNS, DHCP, DFS, Access-based enumeration, Citrix Met frame, Citrix Netscaler, SUS, WSUS, RIS, Outlook, Lynx, VCS clustering, Big IP, SQL 2005 and IIS 6.0.

Guide systems analyst is to find solutions for business needs as well as fix problems with existing systems. Create VB script, Perl, Python, and bash to gather data, implement changes, and general knowledge.

Fix compatibility issues with Linux, windows 2003sp1 domain with windows 2003sp1r2. Migrated HP open view configured NNM node manager.

Manager Systems Engineer/Architect, In Trade   **Jan 2005 - Apr 2007**

A managed trading environment with over 150 servers performs a full-scale upgrade. Servers include windows 2000-2003, Solaris 8, 9, and 10. Built and configured Oracle grid clusters with x4200 Sun servers running Solaris 10 and oracle 10g. Environment monitoring solution was developed to ensure maximum uptime.

The hardware consisted of all Dell servers and NAS solutions and 64-bit spark and AMD sun servers. Clustering SQL/IIS server, designed proper backup schedule for the entire environment.

Network Architect, Diginetworks   **3/2002-1/2005**

Full-scale migration and complete security support for windows 2000-2003 Exchange 2003. IIS/SQL clustering, with scripting for RIS implementation.

Configuration of Linux servers, support of the lotus notes domino server, consultant for the Active Directory structure, migration of users to XP, and supervised full-scale floor moves. This consisted of the configuration of Cisco routers, phone systems, WSH scripting for RIS implementation.

Full-scale migration from fleet network /LAN/WAN to the bank of America standards. Consisted of Cisco configurations, server builds, and rack mounting. Work was done after bank hours.

Support supervisor for upgrade projects within private Wachovia locations. Upgraded software and hardware for given sights.

Workstation rebuilds to server configuration, checkpoint firewall and router administration, migration, remote administration. Active Directory 2000-2003, exchange 5.5-2000-2003, SUS installation, responsible for a full-scale windows 2000 server, and exchange 2000 server to 2003 migration resulting in zero downtime. Design and manage the Active Directory infrastructure. Built SQL/Exchange clusters

Worldwide Irish bank migration to windows 2000 active directory. Responsible for group policy configuration would become the central location where the Active directory structure was put in place and pix firewall and catalyst router administration. This is the template for the rest of the company worldwide.

Systems Engineer, Trade. COM/Bluestone Capital Partners1/2000-3/2002

Primary Functions: (team member) worked closely with management to provide uninterrupted network utilization to users. Responsible for active directory and exchange environment, pix firewall, and catalyst router administration. Network infrastructure planning and design; troubleshooting and technical support in Windows environment; web and SQL server configuration and administration; network security; system upgrades and network migration from windows 4.0 and exchange 5.5 towards windows 2000 and exchange 2000 environment; implementation of Active Directory; development support; Linux (red hat) and Mac OS installation as well as hardware and user administration; data backup using veritas; system maintenance; migration from Citrix MetaFrame to terminal services, the configuration of Cisco equipment for security needs; configuration of communication via WAN with overseas clients demand, VPN setup and security configuration. Supported over 1000+ end-users and designed and layout out SUS server, set up DNS, DHCP, VPN, IPSEC, Kerberos, chapv1, developed network MAP using Visio.

LAN ADMINISTRATOR, Standard and Poors S&P financial 1999–2000

Primary Functions: (Consulting Engagement for Y2K bug) Provided network connectivity; data backup using and recovery using ARCserve; server configuration, maintenance, and repair. Supported in system conversions; software upgrades using SMS, performed server moves, and user rights administration. Supported light exchange duties as well as developing administrator-friendly bat files. Support for Cisco routers and Linux server administration. User support was over 3,000. Team lead for S&P for their 2000 bug support upgrade project ensuring all servers and end-user workstations are win2k compliant.

Kings borough Community Collage

Associates Liberal Arts 1995-97

CERTIFICATIONS/CLASSES:

Coursework for Microsoft Certified System Engineer -1999

Coursework for Red hat Certified Engineer -2000
Coursework for Cisco Certified Network Associate -2000

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Case No(s). 22-0169-EL-CRS

Summary: In the Matter of the Application of Bio Energy Strategy and Tactics