CLOUD SOLUTIONS ARCHITECT

Purpose Statement

Under general direction, the Cloud Solutions Architect provides guidance and architectural support to internal and external San Diego County Office of Education clients, in-service definition, requirements, and design to ensure multi-faceted initiatives align with SDCOE cloud strategy and architecture; provides strategic recommendations for Cloud infrastructure design, troubleshooting, scale and performance, multiple on-premises and cloud-based solutions; serves as a subject matter expert and resource to assigned administrator.

Essential Functions:

- Establishes and assists in computing architecture and governance frameworks for on-premise and cloud systems that incorporate security best practices and applicable regulatory compliance.

- Identifies architecture and design of scalable, performant and cost-effective infrastructure and management solutions.

- Gathers and documents technical requirements from product owners and presents specific, technical solutions to internal and external clients.

- Defines and documents the cloud reference architecture, determines standards for development and implementation across all the cloud and hybrid environments.

- Collaborates with product development teams and DevOps to advocate and ensure compliance with architectural frameworks.

- Collaborates with assigned teams in the adoption of best practices in design and deployment of systems and applications.

- Performs project scoping, resource planning with internal and external customers transition and migrate from on-premises to co-located and cloud services.

- Participates in meetings, workshops, and seminars providing and conveying information identifying appropriate actions and developing recommendations.

- Maintains and builds scripts to manage on premise, cloud computing, software as a service (SaaS), infrastructure as a service (IaaS), and platform as a service (PaaS) systems.

- Develops and revises disaster recovery processes and procedures and related documentation in support of internal and external customer computing environments.

- Develops a library of deployable and documented cloud design templates for the automation of servers to a cloud environment.

- Maintains established security procedures and protocols in protecting the hardware and data of SDCOE.

Other Functions:

- Performs other duties as assigned for the purpose of ensuring the efficient and effective functioning of the work unit.

Job Requirements: Minimum Qualifications

Knowledge and Abilities

KNOWLEDGE OF:

Interpret complex technical material;
Compose a variety of documents, and analyze situations to define issues and draw conclusions;
Relevant state of the art technology, equipment and/or systems;
System integration and automation techniques and tools;
Relevant operating systems;
Various web browsers, remote desktop, and server virtualization technologies;
Networking principles;
Application installation and administration.

ABILITY TO:

Gather, collate, and/or classify data;
Consider a variety of factors when using job related equipment;
Flexibility is required to work with others in a wide variety of circumstances;
Analyze data utilizing defined but different processes;
Operate equipment using a variety of processes;
Work with a wide diversity of individuals;
Work with a variety of data;
Utilize a wide variety of types of job-related equipment;
Analyze issues and create action plans;
Problem solving with equipment is moderate to significant;
Setting priorities;
Communicate effectively with persons of varied technical background;
Meet deadlines and schedules;
Work with frequent interruptions;
Communicates effectively with internal and external SDCOE clients, and both technical and non-technical audiences.

Responsibility

Responsibilities include: working independently under broad organizational policies to achieve organizational objectives; leading, guiding, and/or coordinating others; Utilization of resources from other work units is often required to perform the job's functions. There is some opportunity to impact the organization's services.

Working Environment

Must be able to hear and speak to exchange information; see to perform assigned duties; sit or stand for extended periods of time; possess dexterity of hands and fingers to operate computer, and other office equipment; kneel, stoop, crawl, stretch, bend at the waist, and reach overhead, above shoulders and horizontally, to retrieve and store files, load paper, and access wires and cables; stoop, crawl, stretch.

Education and Experience:

Education: Bachelor's degree in computer science, information system, or related field.

Experience: Five (5) years of experience managing virtual server environments in a medium to large data center environment. Experience in infrastructure, database and networking architecture for highly complex internet-scale applications. Including experience working with Public Cloud services, Office 365/Azure or AWS, cloud services with one or more public cloud providers (AWS, Google Cloud, Microsoft Azure).

Equivalency: A combination of education and experience equivalent to a bachelor's degree in computer science, information system, or related field and five (5) years of experience managing virtual server environments in a medium to large data center environment. Experience in infrastructure, database and networking architecture for highly complex internet-scale applications. Including experience working with Public Cloud services, Office 365/Azure or AWS, cloud services with one or more public cloud providers (AWS, Google Cloud, Microsoft Azure).

Required Testing	Certificates
N/A	Valid CA driver's license

Continuing Educ./Training	Clearances
N/A	Criminal Justice Fingerprint/Background Clearance
	Drug screening
	TB Clearance

FLSA State: Exempt

Salary Grade: Classified Management, Grade 038

Personnel Commission Approved: April 15, 2020

Revised: 10/2020