**Prashanth Kumar Madari**

**SQL Database Administrator || Mongo Database administrator ||Aws devops || Azure Admin || Cloud Engineer.
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**PROFESSIONAL SYNOPSIS:**

* Accomplished Database Administrator with over 11 years of extensive experience in managing and optimizing SQL Server relational databases across diverse environments. Skilled in leveraging Azure SQL Database services for cloud-based solutions, including migration, scaling, and maintenance of Azure SQL Managed Instances.

**PROFESSIONAL SUMMARY:**

* Experienced in installing, configuring, and maintaining SQL Server instances across multiple versions, including **SQL Server 2012, 2014, 2016, 2017, 2019 and 2022.**
* Developed robust **backup and recovery strategies** to safeguard data integrity and ensure quick **restoration** during system failures or data corruption incidents.
* Designed and implemented **high** **availability and disaster recovery (HA/DR) solutions such as Always On Availability Groups, Replication, Failover Cluster Instances, Log Shipping, windows clustering and Database Mirroring**.
* Designed and implemented **database backup and recovery strategies, including full, differential, and transaction log backups,** to minimize data loss and downtime in the event of system failures.
* Skilled in SQL query optimization**, index tuning, and performance monitoring** using tools like **SQL Server Profiler, Extended Events, and Dynamic Management Views (DMVs).**
* Implemented comprehensive security measures including **encryption, auditing, and user/role** management to protect sensitive data and comply with regulatory requirements.
* Extensive experience in managing Azure SQL Database services, including provisioning, **scaling, monitoring, and configuring Azure SQL Managed Instances.**
* Led projects migrating **on-premises SQL Server databases to Azure, utilizing Azure Data Migration Service and SQL Server Migration Assistant** for seamless transitions.
* Implemented **CI/CD pipelines** for database changes using Azure DevOps, ensuring consistent and automated deployments and version control.
* Designed and optimized database schemas, data models, and normalization processes to enhance data integrity and retrieval performance.
* Proficient in **ETL processes, data warehousing, and business intelligence solutions using SSIS, SSRS, and SSAS, enabling comprehensive data analysis and reporting.**
* Leveraged monitoring tools and techniques to proactively identify and resolve performance issues, ensuring minimal downtime and optimal database performance.
* Collaborated with development teams to ensure efficient database interactions, optimize application performance, and provide technical guidance.
* Good experience on working with **AWS** Web Services like **EC2, S3, RDS, Elastic Load Balancing, Elastic Container Service (ECS), AWS Identity and access management, AWS Cloud Watch**.
* Experience in implementing **K8’S** cluster in **AWS** using **EKS**.
* Experience in **Ansible** Configuration management through **playbooks**.
* Hand-on experience in application servers like Apache, WebSphere and Nginix.
* Good experience on version control management tools like **GIT, GitHub, GITLab**.
* Managed and led database projects from conception to completion, ensuring timely delivery of high-quality solutions in dynamic environments.
* Maintained clear and concise technical documentation and effectively communicated with stakeholders to share knowledge and ensure project alignment.
* Experienced in **installing Windows** and **Unix/Linux** servers in production environments and executing SQL operations daily.
* Analyzed and resolved database issues within SQL, ran **database consistency checks, and managed maintenance procedures.**
* Proficient in **Linux admin commands, load balancing, and auto-scaling groups.**
* Worked closely with QA, development, and application teams, providing database support.
* Expertise in incident management and alert handling.
* Keen customer-centric approach with skills in addressing client priorities and **resolving escalations** within prescribed turnaround times, attaining high client satisfaction and compliance scores.
* Experienced in managing and delivering projects, **conducting business analysis** to determine requirements, and planning for systems implementation at the enterprise scale.
* Proficient in **team management activities**, circulating reports among team members, analyzing performance, and providing coaching and feedback for enhanced performance.
* Effective communicator with excellent analytical, problem-solving, and organizational capabilities; possess a flexible and detail-oriented attitude.

**TECHNICAL SKILLS:**

|  |  |  |
| --- | --- | --- |
| Databases (RDMS & No SQL) | MySQL, MariaDB, MongoDB, Postgresql, MS-SQL. |  |
| Monitoring Tools | NewRelic, Grafana |
| Scripting | Basic Shell Script & Python script(manageable),Ansible Tools |
| ETL / BI  | Informatica ETL  |
| Backup Tools |  Percona Tools |
| Operating Systems | RedHat, Ubuntu, CentOS, Windows 2000/XP/7 |
| Ticketing tools | Jira, ServiceNow, BMC Remedy, Peregriene |
| Cloud  |  AWS ,Azure and GCP |
| Languages | C, C++, SQL |

**PROJECTS:**

**COMPANY: Infinite Computer Solutions Feb-2021 to Apr-2024**

**CLIENT: NCC Group Location:** **Offshore /NewYork USA**

**Roles & Responsibilities: SQL Database Administrator**

**Description**: NCC Group INC. is a global cyber and software resilience business operation across multiple sectors assessing, developing, and managing cyber threats across our increasingly connected society. We advise global technology, manufacturers, financial institutions, critical national infrastructure providers, retailers, and governments on the best way to keep businesses, software, and personal data safe.

* Administered and maintained SQL Server databases across development, testing, and production environments, ensuring data availability, integrity, and security.
* Installed, configured, and upgraded SQL Server instances and database services, **applying patches** and service packs to maintain system stability and security.
* Implemented database replication and log shipping solutions to replicate data between distributed servers and support disaster recovery requirements.
* Designed and implemented **database backup and recovery strategies, including full, differential, and transaction log backups,** to minimize data loss and downtime in the event of system failures.
* Monitored database performance using SQL Server Performance Monitor and other diagnostic tools, analyzing system metrics and **query execution plans to identify performance bottlenecks and optimize database performance.**
* Documented database configurations, procedures, and troubleshooting steps to facilitate knowledge transfer and ensure operational consistency.
* Set up high availability and disaster recovery solutions such as Always On Availability Groups and SQL Server Failover Cluster Instances.
* Analyzed and optimized database performance using tools such as SQL Profiler, Database Engine Tuning Advisor, and execution plans.
* Implemented indexing strategies, query optimization, and data partitioning to enhance database performance.
* Developed and maintained backup and recovery plans, ensuring data integrity and availability.
* Performed regular backups, tested restore processes, and implemented point-in-time recovery strategies.
* Configured and managed database security, including user authentication, role-based access control, and encryption.
* Conducted security audits and implemented measures to protect sensitive data and comply with regulatory requirements.
* Experienced SQL Database Administrator with a proven track record in database management.
* Participated in **capacity planning and scalability initiatives**, assessing current infrastructure resources and forecasting future database growth to ensure adequate performance and resource availability.
* Experienced SQL Database Administrator with a proven track record in database management.
* Proficient in SQL Server, **MySQL, Mongo and Postgresql database platforms.**
* Skilled in **database installation, configuration, and optimization** for performance.
* Expertise in database monitoring, troubleshooting, and resolution of issues.
* Strong understanding of database security measures and implementation.
* Capable of designing and implementing **backup and disaster recovery strategies.**
* Experienced in **SQL query optimization and database tuning** to enhance efficiency.
* Knowledgeable in data migration processes and database version upgrades.
* Continuous learner keeping up with the latest advancements and best practices in database administration.
* Monitor and manage **database replication and failover**/recovery as needed.
* Proficient in debugging techniques and technical problem analysis
* Investigate the **Github logs and validate all the Github jobs** are running as expected. Check logs in failed folder and investigate the failed deposits.
* Verify the Registrar deposit Processing and make sure the RyDE, RrDE and RDEA registrar deposits get executed on SQL server.
* Check success notifications for ICANN have been generated for all the executed deposits in database.
* Ensuring the goals of the Incident Management Process are achieved, restoring normal service as soon as possible based on customer perspective and within defined SLA.
* Install, manage, maintain, and troubleshoot databases and data models that support applications.
* Manage multiple MsSql databases, ensuring that all servers are operational 24x7x365 and all scheduled jobs and backups are consistently completed.
* Experience in configuring, monitoring, and managing database replication (High Availability) and failover /recovery as needed. Worked on **MongoDB version upgradation.**
* Worked on Database Migration activities like On-prem to AWS.
* AWS, Azure & GCP cloud experience along with DevOps tools

**MongoDB Atlas Management:**

* Extensive experience deploying, managing, and scaling MongoDB Atlas clusters.
* Proficient in setting up Atlas clusters across multiple cloud providers (AWS, GCP, Azure).
* Configured and optimized sharded clusters for high availability and performance.
* Implemented automated backup and recovery solutions using Atlas built-in tools to ensure data integrity and availability.
* Utilized Atlas monitoring and alerting features to maintain optimal performance and quickly address issues.
* Managed and configured **MongoDB Atlas security settings, including IP whitelisting, VPC peering, and encryption at rest and in transit.**
* Conducted migrations from on-premises MongoDB to MongoDB Atlas using the Atlas Live Migration Service.
* Administering MongoDB Enterprise environments in both on-premises and cloud setups.
* Implemented replica sets and sharding for high availability and horizontal scaling.
* Managed MongoDB Ops Manager for automated deployments, monitoring, and backups.
* Ensured compliance with enterprise security policies by configuring LDAP authentication, role-based access control (RBAC), and auditing.
* Performed regular upgrades and patching **of MongoDB instances** to maintain security and stability.
* Developed and implemented disaster recovery plans, including regular backups and restore testing.
* Optimized database performance through index tuning, query optimization, and effective schema design.
* Proficient in backup and recovery, including point-in-time recovery and hot/cold backups.
* Configured and maintained MySQL and MongoDB multiple instances.

**AWS, Azure Cloud Experience:**

* Utilized various cloud services including **EC2, AWS Lambda, Beanstalk, Load Balancer, etc.**
* Proficient in cloud **networking, VPC, Route53, and cost optimization techniques**.
* Proficient in continuous integration and continuous deployment (CI/CD) pipelines, automation, and monitoring solutions.
* Adapt at collaborating with cross-functional teams to deliver scalable, reliable, and secure systems.
* Build and deployment of **SpringBoot** applications to various environments using **Jenkins, Docker, Ansible, Kubernetes** by following Continuous Integration and Continuous Deployment (**CI/CD**) pipeline.
* Good experience on working with **AWS** Web Services like **EC2, S3, RDS, Elastic Load Balancing, AWS Identity and access management, AWS Cloud Watch**.
* Good Experience in implementing **K8’S** cluster in **AWS** using **EKS**.
* Good Experience in **Ansible** Configuration management through **playbooks**.
* Hand-on experience in application servers like Apache, WebSphere and Nginix.
* Good experience on version control management tools like **GIT, Git Hub, GITLab**.
* Used **Maven** as build tool for packaging **spring boot**
* Used **Remedy, ServiceNow, Jira** as **Incident/Change/Work Management tool**.
* Good working experience in **Windows, Linux and UNIX** environments.
* As an **SRE** **& SME** expertise in resolving user queries, finding out root cause for **production incident**.
* Good experience in creating **changes for production fixes, weekend releases & Infra upgrades**.
* Coordinate the **release & deployment** activities with other teams till the app goes live.
* Expertise in creating complex **SQL queries** & **Stored Procedures** for reporting and recurring production issues analysis**.**
* Experience with DevOps tools such as **Terraform, Jenkins, Ansible, JFrog, and Bitbucket.**
* Conducted data migration activities from on-premises to cloud environments.
* Knowledge in **database modeling, backup and recovery, performance tuning, replication, encryption and identity management**.
* Test patches and product updates and prepare instructions on product deployment and installation.

**Client: AVIHS DATA SOLUTIONS** **Nov-2020 to Jan-2021**

**SQL Database Administrator ( Freelance consultant)**  **Location: Remote**

**Roles and Responsibilities:**

* Installed and configured SQL Server instances and related services on Windows servers.
* Set up high availability and disaster recovery solutions such as Always On Availability Groups and SQL Server Failover Cluster Instances.
* Analyzed and optimized database performance using tools such as SQL Profiler, Database Engine Tuning Advisor, and execution plans.
* Implemented indexing strategies, query optimization, and data partitioning to enhance database performance.
* Developed and maintained backup and recovery plans, ensuring data integrity and availability.
* Performed regular backups, tested restore processes, and implemented point-in-time recovery strategies.
* Configured and managed database security, including user authentication, role-based access control, and encryption.
* Conducted security audits and implemented measures to protect sensitive data and comply with regulatory requirements.
Utilized Atlas monitoring and alerting features to maintain optimal performance and quickly address issues.
* Managed and configured **MongoDB Atlas security settings, including IP whitelisting, VPC peering, and encryption at rest and in transit.**
* Scheduled and automated regular maintenance tasks, including database integrity checks, index reorganization, and statistics updates.
* Monitored and resolved issues related to database fragmentation and performance degradation.
* Collaborated with development teams to design and implement database schemas, tables, views, stored procedures, and functions.
* Ensured database designs adhere to normalization standards and best practices for data modeling.
* Utilized monitoring tools such as SQL Server Management Studio (SSMS), Performance Monitor, and third-party solutions to track database performance and health.
* Diagnosed and resolved database issues, including deadlocks, blocking, and connectivity problems.
* Planned and executed data migration projects, including upgrades from older SQL Server versions to newer ones.
* Ensured minimal downtime and data loss during migration and upgrade processes.
* Working hands-on on technical issues & releases and acted as part of reviewing of use case and process improvements.
* Manage and administer **multiple PostgreSQL database** clusters in a high-availability environment, ensuring optimal performance and reliability.
* Perform database **installation, configuration, and upgrades**, applying best practices to maintain system integrity and security.
* Develop and implement database backup and recovery strategies, including **regular backups, PITR** (**Point-in-Time Recovery),** and disaster recovery planning.
* Conduct database performance tuning and optimization, analyzing query performance, index usage, and system resource utilization to improve overall database efficiency.
* Collaborate with development teams to design and optimize database schemas, ensuring scalability, data integrity, and adherence to best practices.
* Troubleshoot and resolve database-related issues, including performance bottlenecks, replication lag, and data corruption, with a focus on minimizing downtime and impact on production systems.
* Implement and enforce database security policies, including **role-based access control (RBAC),** encryption, and auditing, to protect sensitive data and comply with regulatory requirements.
* Contributed as a part of daily/ weekly/ monthly stand-up and reviewed calls to discuss/ resolve any managed pending issues, future projects, and also current support progress and its related issues.
* Install the Windows and Unix servers in the production environment and execute the SQL operations daily.
* Ability to analyze issues within the database and be able to fix it within SQL. Analyze functional application design and develop/test detailed programs for complex components.
* Proficient in debugging techniques and technical problem analysis.
* Monitor the Business Excellence - OE Documentation - GPH Utilization & Adoption, T&M analysis.
* Drive the Cross Skilling across teams.
* Taking care of Crisis Records (CR) are accurately coded, and notifications are sent to stakeholders accurately posted in a timely fashion.
* Escalating the facilitating requested Management Bridges for Crisis Event status performing special projects as assigned by the CMD Management Team
* Mentoring virtual teams of size 5 to 100 on Tech bridges to resolve the crisis resolving problems issues within set timelines there by developing the Knowledge Base ensuring that the issue does not happen again.

**Client**: **Accenture Solutions PVT LTD May-2017 to Oct-2020**

**Azure SQL Database Administrator Location**: **(**[**Redmond, Washington**](https://www.bing.com/ck/a?!&&p=23b765395bb36362JmltdHM9MTcxNDQzNTIwMCZpZ3VpZD0yNGFiNTc1Yi01NDcxLTY1MmItMDhjMS00MzMxNTUyODY0NmUmaW5zaWQ9NTU1NQ&ptn=3&ver=2&hsh=3&fclid=24ab575b-5471-652b-08c1-43315528646e&u=a1L3NlYXJjaD9xPVJlZG1vbmQlMmMrV2FzaGluZ3RvbiZGT1JNPVNOQVBTVCZmaWx0ZXJzPXNpZDoiODc2OWQ0YzAtYjY0NS03MGFjLTAzZWMtNmVlYmFiZjZkMjZlIg&ntb=1)**) Offshore**

**Roles & Responsibilities:**

* Set up and manage Azure infrastructure components such as **Virtual Machines (VMs), Virtual Networks, Storage Accounts, Resource Groups, and Azure Kubernetes Service (AKS).**
* Monitor and optimize the performance, cost, and utilization of Azure resources.
* Manage **user accounts, groups, and roles in Azure Active Directory.**
* Implement and maintain **AAD Connect** for hybrid identity scenarios.
* Assign and manage access permissions for resources using **RBAC** to ensure security and compliance.
* Design, configure, and manage Azure Virtual Networks, including subnets, route tables, and network interfaces.
* Implement and manage **Network Security Groups (NSGs), Azure Firewall, and VPN gateways** to secure the network infrastructure.
* Conducted migrations from on-premises MongoDB to MongoDB Atlas using the Atlas Live Migration Service.
* Use **Azure Resource Manager (ARM) templates, Azure PowerShell, and Azure CLI** to automate resource provisioning and management.
* Develop and maintain scripts for routine tasks, such as backups, patch management, and system updates.
* Set up and manage Azure Monitor, Log Analytics, and Application Insights to monitor the health, performance, and usage of Azure resources.
* Configure alerts and notifications for critical issues and performance thresholds to ensure proactive management.
* Implement Azure Security Center recommendations and best practices for securing Azure environments.
* Ensure that Azure environments comply with relevant industry standards and regulatory requirements, conducting regular audits and assessments.
* Implement and manage Azure Backup and Azure Site Recovery for business continuity and disaster recovery.
* Develop, test, and maintain disaster recovery plans to ensure data integrity and availability during incidents.
* Use Azure Cost Management and Billing tools to monitor and report on cloud spending.
* Implement cost-saving strategies such as reserved instances, rightsizing resources, and using cost management tools to optimize expenses.
* Set up and manage Azure DevOps for continuous integration and continuous deployment (CI/CD) pipelines.
* Use tools like Terraform or ARM templates to manage infrastructure as code, ensuring repeatable and consistent deployments.
* Provide 2nd and 3rd level support for Azure-related issues, troubleshooting and resolving complex problems.
* Respond to incidents, perform root cause analysis, and implement corrective actions to prevent recurrence.
* Work closely with development, security, and operations teams to ensure seamless integration and operation of Azure resources.
* Create and maintain comprehensive documentation of Azure configurations, procedures, and best practices.
* Keep up-to-date with the latest Azure services, features, and best practices by attending training, certifications, and participating in the Azure community.
* Continuously evaluate and improve processes, tools, and methodologies to enhance efficiency and effectiveness in managing Azure environments.

 **COMPANY**: **Genpact India Private Limited Mar-2016 to May-2017**

 **CLIENT: Coke Process Location**: **Atlanta, Georgia /Offshore**

 **Roles & Responsibilities: Azure SQL admin**

* Provisioned and configured **Azure SQL Databases, Managed Instances, and Elastic Pools.**
* Set up and managed database replication and synchronization using Azure SQL Data Sync and Geo-Replication.
* Performance Monitoring and Optimization:
* Monitored database performance using **Azure Monitor, Azure SQL Analytics, and Query Performance Insights.**
* Configured automated backups and long-term retention using Azure Backup.
* Implemented point-in-time restore and geo-restore for disaster recovery and business continuity.
* Managed database security through **Azure Active Directory (AAD) integration, firewall rules, and virtual network (VNet) service endpoints.**
* Scheduled and automated maintenance tasks using Azure Automation and Azure Logic Apps.
* Performed regular maintenance operations, including index maintenance, statistics updates, and integrity checks.
* Configured and **managed High Availability solutions using Auto-Failover Groups and Active Geo-Replication.**
* Developed and tested disaster recovery plans to ensure minimal downtime and data loss.
* Planned and executed migrations of on-premises SQL Server databases to Azure SQL Database using Azure Database Migration Service (DMS).
* Utilized **Azure SQL Database Advisor for performance recommendations and automatic tuning**.
* Diagnosed and resolved database issues, including connectivity problems, slow queries, and resource contention.
* Monitored and analyzed database usage to optimize performance and cost using Azure Cost Management and Advisor recommendations.
* Worked closely with development teams to design and implement database schemas, stored procedures, and data access strategies.
* Provided training and support to team members on Azure SQL Database best practices and tools.
* Provided support and troubleshooting for AWS-related issues, ensuring minimal downtime and quick resolution of incidents.
* Collaborated with development teams to design and implement scalable and secure architectures in Azure.
* Performed regular audits and compliance checks to ensure Azure environments adhere to best practices and regulatory requirements.
* Developed and maintained scripts using Python and Bash for automation of routine tasks, improving operational efficiency.
* **Company**: **Unisys India Private Limited Feb-2014 to Nov-2015**

**Client: NEC 7\11 Location**: **USA/offshore**

 **Roles & Responsibilities: AWS Administrator**

* Implemented and maintained IAM policies and roles to ensure secure access control and compliance with organizational standards. Configured and managed automated backups and disaster recovery plans, ensuring data integrity and availability.
* Monitored and optimized AWS infrastructure using CloudWatch, CloudTrail, and third-party tools, improving system performance and reliability.
* Automated infrastructure deployment and management using AWS CloudFormation and Terraform, reducing manual intervention and deployment times.
* Hands on experience in implementing AWS ECS using **EC2** instance.
* Hands on experience in creating **Cloud formation YML** file to create ECS cluster along with **Task** **definitions** and **Services**.
* Good knowledge in **Bridge** networks to connect **Public** and **Private** Subnets in **AWSVPC**.
* Implemented **K8’s cluster** in AWS via **EKS**.
* Used **Ansible** as configuration management tool.
* Coordinate with **QA** team regularly on the bug fix, production issues and SIT/UAT issues.
* Experienced **on JIRA** and **ServiceNow** as a Change Management/ Work Management tool.
* Good experience in creating **changes for production fixes, weekend releases & Infra upgrades**
* Involved in **DR exercise failover and failback**.
* **Company**: **Magna InfoTech Ltd May-2012 to Oct -2013**

**Client: JP Morgan Chase (Major Incident Manager)** **Location: NewYork, NY USA/Offshore**

* **Client**: **Dell Dec-2010 to Aug-2011**

**Technical Support Analyst Location: Roundrock, Texas USA/Offshore**

* **CERTIFICATION:**

**ITIL V3 Foundation Certified.**

* **EDUCATIONAL QUALIFICATION:**

 **Completed B-Tech in Civil from Vignan Jyothi Institute of Engineering and Technology (Affiliated to J.N.T.U).2008**