

SENIOR DATABASE ADMINISTRATOR

Career Overview

Results-driven Database Administrator with experience in back-end programming, relational databases and development/maintenance of complex and critical systems.

Qualifications

- UNIX/LINUX
- Capacity and scalability planning
- Optimizing and performance tuning
- Database servers
- Testing
- Excellent problem solving skills
- Programming and design skills

Technical Skills

| Skills | Experience | Total Years | Last Used |
|--------------------------|--------------------------|-------------|-----------|
| MySQL | MySQL | 7 | 2015 |
| MariaDB GTID Replication | MariaDB GTID Replication | 1 | 2015 |
| MySQL/NDB Clustering | NDB Clustering | 5 | 2015 |
| Linux | Linux OS | 9 | 2015 |

Accomplishments

Operational Management

- Identified, recommended and prioritized new Database topologies, architecture, and technologies to provide enhanced functionality in conjunction with the Data Services team and leadership.
- Developed, coded, installed, tested, debugged and documented administrative and monitoring applications as tools to provide increased management of systems and technologies.

Work Experience

11/2012 to Current

SENIOR DATABASE ADMINISTRATOR Fidelity Investments 1/4 Schiller Park , IL **DATABASE ENGINEER** Successful launch of The Elder Scrolls Online MMORPG, and The Elder Scrolls Online: Tamriel Unlimited MMORPG. Performed major role in the engineering and implementation of the back-end services utilized to make up Zenimax's exclusive mega-server technology. This included extensive server build-outs, configuration, and optimization within VMWare to provide a dependable, efficient, and scalable system for the game server to consume. Provided skilled scalability and HA methodologies using MySQL Master/Slave replication, MariaDB Master/Slave replication, MariaDB GTID based replication including multi-master replication, MaxScale, MySQL/NDB Cluster, and Linux (CentOS). Also versed with RabbitMQ's implementation and clustering. Provided Linux and disk optimizations commensurate with above data technologies. Created/maintained internal systems for administration of the back-end systems, including those utilized by Zenimax's exclusive mega-server technology. Created and maintained monitoring, alerting, and trending methodologies across various Data Services environments (i.e. Development, mega-server, etc.) incorporating various technologies and programming languages (BASH, Python) to provide a fast, accurate, and dependable monitoring/alerting/trending solution specifically tailored to our needs. These methodologies have been created to work with various existing products such as OpenNMS, Shinken, and Graphite, as well as provide robust alerting for triage. Created a systems management structure allowing for deployment of new systems; team contributor using SaltStack; Extensive implementation performed in AWS (i.e. EC2, SES, CloudWatch, etc.) Provide on-going support, consultation, and implementation. Also provide infrastructure and architecture support for new and existing systems.

01/2011 to 01/2012

PRODUCTION DATABASE ADMINISTRATOR Autodesk Inc. 1/4 Utah , IN DBA operations in a global HA environment; create schema architecture, implement triggers, procedures, functions as necessary to complete tasks; optimize MySQL server via CNF tuning, Linux OS tuning, worked with System Administrators to tune disk and OS systems; Create clustering solutions as needed; write scripts as needed to accomplish maintenance or routine functionality (BASH, PHP, PL as necessary). Maintain uptime through failover and load balancing; Perform triage and disaster recovery during replication issues or cluster/node failure. Provide administration and support to developers for all database operations. Write an application to give MySQL health and metrics using PHP, MySQL, and AJAX (JS). Install, set up, and maintain backup solutions using Zmanda Recovery manager. Wrote an in-house backup solution with data retention for smaller products.

01/2011 to 04/2011

SOFTWARE ENGINEER/WEB DEVELOPER/LAMP ENGINEER Miniclip 1/4 City , STATE Engineered Linux-Apache-PHP system to connect with an Oracle backend. The server environments: RH Linux on the production server, and Debian Linux on the development server each running Apache 2.2 and PHP5.3 Each installation involved adding build dependencies to the distribution, compiling and installation the Oracle OCI8 kernel module, and whatever modules would be needed for Virtualization, as Cloud services are planned at a later date. Developed an AJAX powered PHP application that would allow network topology and infrastructure information to be available to users. Information is presented in an interactive, data entry format as well as visual hierarchical representations. This system was designed to work as an enterprise application with an Oracle back-end, using Microsoft AD authentication. AD interaction is done using the PHP-LDAP library, and handled by the application. Created a wrapper class for interaction with the Oracle database server which encapsulated the database server's views and stored procedures (e.g DAL). Created class methods that utilized PL/SQL for SP functionality. AJAX implementation uses HTTP Requests from custom written Javascript functions, to server side classes, libraries, and functions written in PHP5. This entire application and its components were developed 100% from scratch and have no dependencies.

01/2009 to 01/2010

SOFTWARE ENGINEER/LINUX SYSTEMS INTEGRATOR/TECHNICAL SYSTEMS ANALYST Miniclip 1/4 City , STATE Installed, configured, and maintained LAMP system using Dell Optiplex Server hardware and Linux OS - Apache, PHP, MySQL, Linux solution. Designed and wrote web application allowing user interface to CMTS and cable modem data. This would allow for users to view technical data and leverage this against stored billing and customer data, down to the CPE device level. Created the data architecture to warehouse the data retrieved from the network devices. Integrated collected data and existing corporate data via web applications, while maintaining corporate and customer informational integrity. Designed and wrote SNMP polling processes which collected data via solicited SNMP to CMTS devices, and to customer premises equipment. Used SNMP calls via PHP and parsed returned information. Polling process ran by CRON jobs which in turn ran PHP-CLI processes. These processes were written in such a way as to allow the polling system as a whole to be multi-threaded. Designed and wrote data warehouse system that stored collected SNMP information that could be queried against by users, and by the application for charting and reporting functions. Information parsed from the polling process would be sanitized and injected to the MySQL server database. Designed and wrote CVS export functionality for select data screens and HTML reports. Integrated Flash Charts library; Designed and created charts used for viewing selected statistics. Chart information was written in XML, which was created on the fly once retrieved from the MySQL database. Developed a TELNET function that was software controlled, allowing automated TELNET sessions requiring no user input. This allowed backup data collection via Command Line Interface (CLI) commands on the CMTSes. This involved using the PHP-SOCKETS library to open a TCP/IP socket which was controlled programmatically. Designed and implemented basic status polling system via solicited SNMP which gave basic health monitoring to the applications using it. This system ran from a CRON job which executed the starting PHP-CLI process. Basic AJAX framework implemented using JavaScript and PHP. Mapping functions integrated into the application, written in PHP and JavaScript, and utilized Google Maps API v3.0. Provided functionality to allow the application to be server side processor for other languages such as C# and ASP. These were provided as basic web services, and tailored to the individual needs of the calling application. Performed troubleshooting on C# and ASP projects. Successfully performed program maintenance, and added new functionality to the ColdFusion intranet application used within the company; Created data processing functions that would synchronize/export data between MySQL and Oracle.

01/2007 to 01/2008

SOFTWARE ENGINEER Aaron Rents, Inc 1/4 City , STATE Performed functions in lead developer position on projects with point of sale software. Projects included complete re-factoring of the tax system in the software for the country of Canada. Perform maintenance and bug fixes in a timely manner. Wrote C# application to convert legacy DBF files to MS SQL Server 2000/2005, MSDE, and MSSQL Server 2005 products. Worked closely with QA Team in a team effort to complete projects, assist with T-SQL code used in that department for in house reporting and troubleshooting.

01/1997 to 01/2007

Software Engineer / Network Engineer / Technical Services Department Manager, VP-TS EMS Consultants, LTD 1/4 City , STATE Managed the Development Department and Technical Support Department; performed the top level technical support and product consultation for the corporation. Created Technical Support software used by technical support personnel for tracking of technical support incidents. Converted the legacy Clipper financial product into a windows 32-bit application which conforms to US Government specifications (CMS/HIPAA). Wrote FTP communications module which was later merged into the main financial application. Wrote a complete report designer allowing users to run reports created on the fly. Wrote a complete payments processing system which processed ANSI835 files. Wrote credit card processing portal using ASP, later enhanced and converted into ColdFusion. Wrote Vehicle Maintenance program. Created data driven web portals using PHP and Cold Fusion with MySQL and MSSQL data backends. Installed and maintained LINUX and MS servers for LAN/WAN applications and complex data operations in hybrid environments which include LAMP servers, and MS based servers. Installed and maintained LINUX workstations. Devised an entire architecture allowing hybrid processing on server and workstation levels. This included MSSQL and MySQL (LAMP) integration across all solutions as needed. Performed most hardware builds, repairs, and maintenance; trained other personnel to do these functions correctly and efficiently. Prepared software installation packages by copying DVD/CD masters. Trained on the installation, usage, and maintenance of software and hardware put in place within the company. Engineered the billing application rewrite in to .NET with MSSQL 2000/2005/MSDE/EXPRESS as the data backend.

Education and Training

1989
Associate : Applied Technology North Arkansas Community College 1/4 City , State , US 1987-1989 North Arkansas Community College, Harrison, AR Associate Degree, Applied Technology (Networking, IT, Support, Business MGMT)

Certifications

- CNA
- A+
- MSISV
- Apple Certified Technician
- EDI (ACT-HIPAA) Certified
- HIPAA

Presentations

Developed an AJAX powered PHP application that would allow network topology and infrastructure information to be available to users. Information is presented in an interactive, data entry format as well as visual hierarchical representations

Skills

Engineer, Linux, Architecture, Mysql, Maintenance, Software Engineer, Php, Lamp, Lamp Stack, Asp, Billing, Coldfusion, Integrator, Msde, Operations, Solutions, .net, Clipper, Cms, Cold Fusion, Content Management System, Copying, Credit, Credit Card, Ftp, Hipaa, Integration, Lan, Lan/wan, Payments, Technical Services, Technical Support, Workstations, Database, C#, Bash, Clustering, Database Administrator, Replication, Ajax, Amazon Elastic Compute Cloud, Aws, Data Services, Deployment, Ec2, Optimization, Python, Systems Management, Vmware, Apache, Javascript, Oracle, Sql, Api, Cmts, Collection, Command Line Interface, Cvs, Data Architecture, Data Collection, Data

Warehouse, Flash, Html, Intranet, Mapping, Modem, Processor, Snmp, Sockets, Statistics, Systems Analyst, Tcp, Tcp/ip, Telnet, Topo, User Interface, Web Services, Xml, Ms Sql Server, Ms Sql Server 2000, OfSale, Point OfSale, Qa, Sql Server, Sql Server 2000, T-sql, Associate, Networking, Disaster Recovery, Load Balancing, Metrics, Cna, Edi, Authentication, Class, Comprehensive Large Array Data Stewardship System, Data Entry, Enterprise Application, Http, Its, Kernel, Ldap, Pl/sql, Stored Procedures, Virtualization