



Certified

Solutions Architect - Associate



Certified

SysOps Administrator - Associate

ORACLE®

Certified Associate

CURRICULAM VITAE

MADHAVA REDDY KUNKANURU

[8 Years] AWS, Linux, Oracle & MSSQL

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Career Objective

“To be part of an advancing organization that provides me with a challenging career to improve my skills in accordance with the latest trends and technologies and utilizing my inherent Capabilities and professional skills to shoulder responsibilities, take initiatives, add value to the Company.”

Professional Experience (AWS Admin, Oracle DBA, MSSQL DBA & Linux Admin).

- April -2019 to Oct-2021: **Technical Service Engineer – Fujitsu Consulting India pvt ltd**, Bangalore, India.
- May -2017 to April-2019: **Oracle DBA – Softcrylic technology solutions India pvt ltd**, Chennai, India.
- Jan -2014 to May -2017: **System Admin –Datavail Infotech pvt ltd**, Bangalore, India.

Professional Summary

AWS cloud Architect with successful experience in Infrastructure and databases. Providing high quality solution that is scalable and highly available and fault tolerant tailored towards an enterprise goal. Demonstrable experience with tools and design the overall Virtual Private Cloud VPC environment including server instance, storage instances, subnets and high availability zones.

Proficient in DevOps, Cloud Engineering and Cloud Security with proven success in automating, building and deploying process for operational excellence. Accomplished in guiding the classification, plan, implementation, growth, adoption and compliance to enterprise architecture strategies, processes and standards.

Technical Skills:

- Cloud Technologies : AWS Cloud
- Operating system : Windows & Redhat Linux
- Configuration Management : Ansible
- Version control Systems : GIT, GIT hub
- Database : Oracle Database and MSSQL
- Deployment tool : Jenkins

Certifications:

- AWS Sysops certified Administrator - Associate
- AWS Certified Solution Architect - Associate.
- Oracle certified 11G – Associate

Job Description (Roles & Responsibilities)

AWS Cloud:

- Having work experience with Cloud portals - Creating, taking snapshots and terminating Instances (AWS)
- Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), **Public and Private Subnets, Security Groups, Route Tables, Elastic Load**

Balancer.

- Design the **Egress and Ingress** routing using **Transit Gateway, NAT Gateway, Internet Gateway and Network interfaces**.
- Performed many networks related activities such as **VPN to Direct Connect migrations**, Direct Connect associations, **BGP prefixes, route changes, Transit Gateway associations**, Transit Gateway route changes, **Route53 health checks, Route53 failovers, Route53 resolver association** with VPC, Internal and External network control, AWS Network troubleshooting, adding subnets to load balancer, Creating VPC, Creating VPC flow logs and VPN decommissions.
- Analyzing the Network traffic and creating the Network Diagrams for the accounts.
- Perform cleanup activities on AWS cloud with identifying old **snapshots**, backups, unused **elastic IP's** and Down tunnels, unused VPC and subnets.
- **Cost savings of \$ 100K** by providing a solution for **IaaS database backup** configurations hosted on ec2 instances.
- **Cost savings of \$ 80k** by changing the ec2 instance **backup policies** and **snapshots**.
- **Cost savings of \$ 20K** by providing an automated solution to **stop idle instances** for specific duration.
- **Cost savings of \$ 50K** by setting up the CloudWatch **log group retention policy** to 90 days from never expire.
- Provisioning the new Linux, Windows and Amazon Linux environments using base **AMI's** and also as per the end user requirement.
- Creating and monitoring alarms for AWS resources using **AWS CloudWatch**.
- Implemented **CloudWatch automated monitoring solution** for CPU and Disk utilizations and **integrated it with ServiceNow** incident management tool.
- Configured **LDAP** and **Multi Factor Authentication** of Duo for AWS environments.
- Worked with security team for **Vulnerability Remediations** related to OS.
- Ensure to upgrade the security tools such as SentinelOne and Nexpose.
- Performing patching activities and automated the **patching** using **AWS systems manager** with predefined and custom documents.
- **Patching** autoscaled instances with **zero downtime**.
- Adding removing servers from Load balancers, performing cold boot, reboot, shutdown servers.
- Designed, built, and deployed a multitude application utilizing almost all of the AWS stack (Including **EC2, R53, S3, RDS, MySQL DB, Oracle DB, SQS, IAM, EIP, EBS, VPC**), focusing on high-availability, fault tolerance, and **auto-scaling with Cloud watch monitoring**.
- Creating S3 buckets and also managing policies for S3 buckets.
- Created CloudWatch alert that is associated with SNS topic.
- Using Amazon SNS as a message bus to send messages, alarms, and notifications from AWS service such as CloudWatch, S3.
- Creating CloudWatch alerts for instances and using them in **Auto scaling launch configurations**.
- Managing a **team of 15 People and handled the client from offshore engineer's** itself
- Interacting with a client directly on weekly basis, and providing an update to SDM when needed.
- Worked on Amazon Web Services (EC2, ELB, VPC, S3, IAM, RDS, Route 53, CloudWatch, SNS)
- Install new/rebuild existing servers and configure hardware, peripherals, services, settings, directories, storage, etc. in accordance with standards and project/operational requirements
- Experience in VPC, EC2, Route53, Load balancing ELB, Auto scaling architectures, messaging, Cloud watch alarms, EIP etc.
- Design **AWS Cloud Formation templates to create custom sized VPC**, subnets, NAT to ensure successful deployment of Web applications and database templates.
- Design **cloud formation templates for EBS encryption** and volume type change from gp2 to gp3.
- Design roles and groups for users and resources using AWS Identity Access Management (IAM).
- Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup
- Utilize Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, Dynamo DB tables, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
- Database/table replication using **DMS service** from onprem Oracle database to AWS Dynamo DB.

Google Cloud:

- Responsible for designing, implementing and supporting of Cloud-based infrastructure and its solutions.
- Configured, Maintained and managed Google cloud virtual machines and cloud computing platform which is hosted in GCP.
- Used **compute, storage**, Networking for various operations.
- Configured Google cloud **Virtual Private Cloud (VPC)** and database subnets Groups for isolation of resources.
- Creating Google Cloud Platform for managing user and system credentials.
- Creating **Google cloud storage (GCS) buckets**, maintaining and utilizing the policy management of buckets and used GCS online storage and backup on Google Cloud.
- Creating load balancer and add instances to load balancer in GCP.
- Creating and maintaining **Autoscaling group** for high availability in GCP.
- Scheduling or taking manual backups and changing backup policy as required in GCP.
- Instance recovery when system has booting issues in GCP.
- Creating users and managing the permissions using IAM.
- Creating projects in organization node on Google cloud platform.
- Used IAM to create new accounts, roles and groups. Managing IAM accounts and IAM policies to meet security audit & compliance requirements.
- Creating Cloud storage buckets and managing policies for the buckets and Utilized bucket and Glacier for storage and backup.
- Configured Elastic load balancers for incoming loads.
- Used Auto-scaling and Elastic Load Balancer features on VM instances.
- Complete maintenance of OS machine images including security/maintenance patching on a monthly basis and adhoc emergency roll outs
- Ability to deploy, manage, and operate scalable, highly available, and fault-tolerant systems
- Relevant experience as a systems administrator in a systems operation's role
- Capability to select the appropriate services based on compute, data, or security requirements
- Ability to estimate usage costs and identify operational cost control mechanisms

Oracle Database:

- Install the binaries. It can be either database binaries or client binaries.
- Creates and maintains all databases required for development, testing and production usage.
- Extensive knowledge on database administration **for Oracle 10g, 11g and 12c**
- Working Experience on 24 x 7 Environments.
- Good experience in Oracle Software Installations by using Graphical method.
- Experience in Oracle Database Creation through **DBCA** and **Manual** method.
- Creation of database users and by setting default tablespaces and temporary **tablespaces**, assigning quotas, roles, privileges and profiles to users.
- Extensive knowledge in Database Architecture.
- Experience in Schema refresh using **Exports/Imports** and **Data pump**.
- Wide range of experience in **RMAN backup** / recovery scenarios.
- Having experience in Cloning of a database using Cold, Hot and RMAN.
- Having Good experience in **applying Patches** to the database.
- Experience on **database Upgrade** from Oracle 10g to Oracle 11g on production environment.
- Good experience in configuring the Oracle Dataguard.
- Identifying fragmented Indexes and Rebuilding Indexes.
- Analyzing the AWR reports and comparing the same with ADDM recommendations and finding the **SQL Queries** which are

affecting the performance.

- Capable of troubleshooting the slowness of a Query using **EXPLAIN PLAN** utilities.
- **Performing** the query level performance tuning.
- Clearing the **fragmentations** to increase the performance.
- Maintaining physical **standby database**.
- Install new versions of the Oracle RDBMS and its tools and any other tools that access the Oracle database.
- The role include installation, configuration, database design, database cloning, database rename, performance monitoring, security, troubleshooting, as well as backup and data recovery.
- performing full database lifecycle management including installation configuration, monitoring, backup, recovery, and performance tuning.
- Performs ongoing tuning of the database instances.

MSSQL Server:

- Configure and maintain database servers and processes
- Daily routine DBA tasks like handling user's permissions and space issues on Production and Development Servers and handling maintenance Jobs.
- Exquisite skills in SSMS-Creating and scheduling jobs, alerts and operators with SQL Server Agent, handling Backup/Recovery of databases and databases Maintenance.
- Monitoring different servers including backup, disk space, Job failures, connectivity.
- Hands-on experience in resolving locking, deadlocks and performance issues like CPU, Memory bottlenecks.
- Performing regular backup and restore operations whenever required.
- Extensively used tools like SQL Profiler for monitoring performance issues.
- Experience in creating Jobs and maintenance plans.
- Handled numerous Change Management requests on production servers and Supported 24x7 production environment.
- Monitor system's health and performance
- Ensure high levels of performance, availability, sustainability and security
- Analyze, solve, and correct issues in real time
- Provide suggestions for solutions
- Refine and automate regular processes, track issues, and document changes
- Assist developers with query tuning and schema refinement
- Provide 24x7 support for critical production systems
- Perform scheduled maintenance and support release deployment activities after hours

Linux:

- Working on daily issues that are generated by monitoring tool – file system issues, file system housekeeping, and operating system health checks.
- Installing operating system Redhat Linux like version 6.0 and 7.0
- Installing CloudWatch agent and other required packages as per the use requirement on Linux boxes
- Worked on users and group managing file systems.
- Adding users and granting the required permissions to users
- Administrating user account, providing SUDO access to user with respect to proper approval from approver.
- Scheduling maintenance jobs using Cron Jobs
- Monitoring performance of Linux servers, Memory, CPU, Network and Disk activities and analyzing these reports and finding any issues that occur.

- Creating users and groups, managing user accounts, administering users and groups securely.
- Disk Partitioning using Logical Volume Manager (LVM) Multipath disk addition as well.
- Configure and manage swap space.
- Experience in File system maintenance.
- Configured the NFS server and NFS clients with Auto mounting and Manual mounting.
- Scheduled various regular, onetime jobs by using crontab.
- Kernel upgrade with default configurations and permissions.
- Package management like Install, remove and update and querying packages using RPM tool.
- Applying monthly security patches to the linux servers using AWS SM.
- Install the packages with YUM & RPM. Creating repositories in the servers.

Strengths

- Good Listener
- Proactive
- Quick Learner.
- Innovator (Giving the new ideas/innovation to the team and management to enhance the process.

Education details

- **B-Tech [Electrical]** – Aug 2013 – JNTU – University, Anantapur, Andhra Pradesh, India.
- **XII [Intermediate]** – Apr 2009 – Board of Intermediate Education, AP, India.
- **X [SCC]** – Apr 2007 – Board of Secondary School Education, AP, India

Personal Details

Full Name : Madhava Reddy Kunkanuru
Father's Name : Subba Reddy Kunkanuru
Date of Birth : 08th Feb 1992
Marital Status : Married.
Nationality & Citizen : Indian
Permanent Address : 7/27 P. Kothur (V), Tuggali (M), Kurnool (D.t), Andhra Pradesh, India – 518390.
Current Address : Suncity, Bandlaguda Jagir, Hyderabad- 560087.
Languages Known : English, Telugu Hindi, Tamil & Kannada

Declaration

I, **MADHAVA REDDY KUNKANURU** declare that the information mentioned above is correct up to my knowledge.

Date:
Bangalore.

[MADHAVA REDDY KUNKANURU]

