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Over 16 years of IT experience in various roles as Cloud/DevOps Engineer, Middleware Administrator and Mainframe developer. In-depth knowledge on cloud computing strategies (IaaS, PaaS, SaaS, IaC) & building, deploying in, maintaining cloud environments. Extensive hands-on experience in Architecting and Implementing Container based technologies, like Docker, AWS ECS, PCF-PaaS, Kubernetes and OpenShift in both public and private clouds. Designed and developed shell and python scripting with focus on DevSecOps tools, CI/CD and AWS Cloud Architecture and hands on engineering manage them in Jenkins. Expertise skills on Administrating Production and non-prod environments, designing low cost highly available environments for critical applications carrying on Unix and windows operating systems. Experience in automating pipelines using AWS CLI, Terraform Shell/Groovy, chef, Artifactory to provision AWS resources. Experience in branching, tagging, and maintaining the versions across the environments using Artifactory, GIT. Responsible in managing all aspects of the software configuration management process including code complication, packaging, deployment, release methodologies and application configurations. Established capabilities in application design, implementation, troubleshooting, monitoring, continuous improvement and change controls. Enhance and automates internal processes to generate efficiency. Full understanding on SDLC, waterfall, Agile methodologies, and process.

**Certifications**

* AWS Certified Solutions Architect – Associate
* Pega PRPC Certified System Architect.
* IBM WebSphere Application Server Network Deployment V7.0, Adv Administration.
* IBM WebSphere Application Server Network Deployment V6.1, Core Administration.

**Technical Skills**

**Cloud Technologies :** AWS (Compute, Network, Storage, Security, management, Application Integration).

**Containers :** Docker, AWS ECS, PCF-PaaS, IaC, Kubernetes and OpenShift.

**Application Servers :** IBM (WAS, WPS, ESB, BPM) Open Source’s (Tomcat, Tomee), Jboss.

**Web Servers :** IBM IHS, Apache, IIS.

**Operating Systems :** Solaris, RHEL, AIX, Windows.

**Networking :** TCP/IP, NFS, DNS, F5, SMTP, LAN, FTP, HTTP/HTTPS, SOAP

**Other Software’s :** Mule, Pega, IBM iLOG, Solar, Adobe, IBM Mainframe.

**Scripting Languages :** Shell, Python, Groovy, Ruby.

**Security :** SiteMinder, OKTA, DataPower, Cognito.

**Databases** : IBM UDB, DB2, Oracle, SQL, Mango DB, mySQL RDS, AWS Aurora Postgres.

**Monitoring Tools :** Splunk, Dyna Trace, cloud watch.

**Automation Build :** Jenkins, Chef, Ansible, Ant.

**Professional Experience**

**Best Buy, Minneapolis Jun’21 – Current**

**Role: Sr. Cloud Engineer / AWS Solution Architect**

**Responsibilities:**

* Architected and configured Dev/Test/Stage/Prod environments in AWS (**VPC, Subnets, Security Groups, Route53, load balancer, cloud map, API Gateways, RDS, Redis** etc.)
* Designed VPC’s structure with careful thought to avoid future results in exhausted IP space, scalability challenges.
* Deployed CloudFormation **budget stack** in each linked account to monitor forecasted amounts with multiple thresholds and notify when expenses exceed thresholds.
* Developed and leveraged baseline and custom guardrails, policies, centralized policy enforcement, tagging policies and well architected multi account environment.
* Designed security postures, **cost-optimized, highly available** infrastructure following AWS well architecture design.
* Deployed network components and other AWS Resource, infrastructure, configurations using **CloudFormation**.
* Implemented containers on AWS using **ECS** and complementary services, including Elastic Container Registry (**ECR**).
* Design and Implement Web Application Firewall (**WAF**) on external facing API Gateway endpoints with **CloudFront** Distribution (**CDN**) and custom WAF security Rules.
* Designed branching strategy and developed Git Actions workflows and enforced across subscriptions space.
* Build and managed Git Actions automation to deploy **Code Build artifacts** with **Code Deploy** and constructed a functioning CI / CD pipeline with these tools to automatically deploy application version changes from GitHub.
* Build an automation to integrate **Git Actions** workflow with Service Now to create Standard change request on prod deployments and close after successful deployment.
* Designed, developed, and implemented automation to rotate IAM user key pair periodically and update Git repo’s secrets with new key values and scheduled job execution using lambda and **CloudWatch** event bridge.
* Designed implemented cost optimization by integrating API Gateway (HTTP & Rest) with AWS Cloud Map and ECS Services.
* Design and Implement **Dash boards, alerts** and **notifications using CloudWatch Logs**.
* Review and remediate **AWS Security Hub** finding on various cloud resources.
* IAM policy governance and scope down Security policies attached to **SNS, SQS, Lambda** and make sure resources are not widely opened.
* Implemented SSH tunneling using **AWS CLI, AWS SSM and VPC end points** to securely connect to RDS privet subnet instances for validation with **Bastion Host**.
* Encryption at Rest using **AWS KMS**.
* Build custom images through Docker server.
* Build serverless architecture with Lambda integrated with **SNS**, **CloudWatch** logs and other AWS services.
* Implemented detective guardrail using config.
* Design, Develop and Implement python automation scripts to notify Teams on Autoscaling activity on **ECS** Containers with Lambda and CloudWatch.
* Created **workloads** with **Well Architected Framework** and reviews with AWS team.
* Remediate alerts from **Prisma cloud** on AWS services on time and make sure all resources are compliant.
* Collaborated with Enterprise Architect and Info sec teams to identify gaps through 12-factor assessment and help the teams to bridge the gaps.

**AIG Insurance, NJ/Charlotte May’10 – Jun’21**

**Role: Infrastructure middleware, DevOps/Cloud Engineer**

**Responsibilities:**

* Responsible for Provisioning and maintain core AWS services, **IAM**, **VPC**, **EC2**, **ECS**, **EBS**, **EFS**, **RDS**, **S3**, **Lambda**, **ELB**, **Auto Scaling**, **Route 53**, **Cloud Front**, **Cloud Watch**, **Cloud Trail**, **SQS**, and **SNS**.
* Design and Implement cloud automation using **AWS Cloud Formation** / **Terraform** templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups.
* Design and Implement Devops automation pipelines to provision Cloud resources and deploy Microservices using **Git Actions, GIT Labs** and **Jenkins**.
* Build docker images based on organization requirements to deploy **microservices** on serverless **containerizations**.
* Build **base machine images** with organizational shared services to provision AWS EC2’s with security guidelines.
* Create **AWS Service Catalog products** with approved bule print templates to provision various Cloud resources.
* Well Versed with **Zero Trust security Architecture.** Design security postures for AWS resources to align with Zero Trust Principles.
* Implemented APIGW private integration with **Service Discovery**(cloudmap) on both internal and external client calls to backend microservices.
* Involved in creating complex IAM policies, Roles and user management for delegated access within AWS.
* Deliver Solutions to improve Cloud Architecture, deployment for **AWS Private and Public clouds**.
* Involved on **automation and continuous integration** process with Jenkins and chef.
* Involved in automating environment build and provisioning using virtualization, containerization and orchestration tools with **Docker**, **Kubernetes** and **OpenShift**.
* Worked on **API Gateway private** integration with Custom Domain, VPClinks, NLB/ALB and cloud Map to route traffic to backend Microservices using Private DNS Service Discovery.
* Designed and developed automation to provision **Kubernetes clusters**on **EC2**instances using **Docker.**
* Integrate **Docker** container orchestration framework using Kubernetes by creating **pods**, **config Maps**, deployments.
* Point team player on OpenShift for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, troubleshooting pods through ssh and logs, modification of **Buildconfigs**, templates, **Imagestreams**, etc.
* Managing the **OpenShift cluster** that includes scaling up or down on private cloud.
* Work on **OpenShift** for container management and to enhance container platform multi – tenancy.
* Involved in architecture and deployment of enterprise-grade **PaaS**solutions using **Pivotal Cloud Foundry**(**PCF**) as well as proper operation during initial application migration and set new development.
* Created and maintained documentation on **build and release process and application configuration** to comply with **audit, security and Industry best practices**.
* Design **EC2 Instance architecture** to meet **highly available** application architecture and security parameters.
* Creating **CloudWatch** alerts for instances and using them in launching **autoscaling configuration**.
* Analyze the **on-prem stack**, load and cost to brainstorm architecture to **migrate them to cloud**.
* Developed **auto healing** concepts based on **alerts and SNS messages** on both on-prem and cloud.
* Implementing **EC2 Backup** strategies by creating **EBS snapshots** and attaching the EBS and EFS volumes to EC2 instances.
* Involved in identify **COTS** applications and develop a strategy to migrate them to cloud with minimal cost.
* Involved in **DR Strategy** by Failover to US-WEST from US-EAST and falling back to US-EAST.
* Implemented network traffic analysis using **VPC flow logs**.
* Automating backups by shell for Linux to transfer data in S3 buckets.
* Exclusively involved in Designing, Administering, Maintaining, Supporting, Testing, Methodologies, and Implementing **IBM WebSphere Application Server 9.x-6.x, WebSphere Process Server 7.x-6.x,** **IBM BPM**, **IBM Portal Server 8.x-6.x**, **IBM IHS**, **Apache Tomcat, Tomee and Apache http server**, **IBM MQ and IBM DataPower.**
* Provided 24/7 on call support on a rotational basis during the weekend and at night.

**Environment**: AWS, Terraform, Docker, Kubernetes, OpenShift, Pivotal Cloud Foundry (PCF), Splunk, Jenkins, Python, Shell/Groovy, IBM DatapowerXI52, JSON, IBM WAS 9.x-6.x, IBM WPS 7.x, IBM IHS 9.x-6x, LDAP, Aix, Linux, Solaris.

**Walgreens, IL Jun’08 – Apr’10**

**Role: WebSphere Administrator**

As a IBM WebSphere Administrator responsible for Install, config, deploy, support IBM WebSphere Application Server 6.1/6.0/5.1, IBM HTTP Server, IBM WebSphere Process Server 6.0/WBISF 5.1, IBM WebSphere Portal Server 5.1 and IBM MQSeries on AIX and Windows platforms.

**Standard Register Customer**, **USA** (**Hewlett-Packard Ltd.) Apr’05 – May’08**

**Role: Software Engineer**

As a Mainframe developer responsible for modifying the existing programs, develop new programs are reporting job based on business requirements in VS Cobol II, JCL, CICS, Supra, DB2 on OS/390. Involved in designing and developing upload process like CC upload, CDA upload, Mass Distribution. Performed 24X7 production support.

**Putnam**, **USA** (**Wipro.) Sep’02 – Apr’05**

**Role: Project Engineer**

As a Mainframe Trainee responsible for modifying the existing programs, develop new programs are reporting job based on business requirements in VS Cobol II, JCL, CICS, Supra, DB2 on OS/390.