Kumar Chowdary



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**pROFESSIONAL SUMMARY**

* 4+ years of professional IT experience in Systems Administration, AWS Cloud Services, Development and Operations (DevOps), Programmer Analyst, Network Administration.
* Expertise in managing security on cloud services using WAF’s and Advanced shield and VPC on EC2-Instances.
* Excellent experience with provisioning AWS resources with CloudFormation using DevOps tools.
* Expertise in creating DR plans in cloud environment.
* Deploying and managing systems on cloud computing platforms primarily focused on Amazon Web Services and Azure Cloud Services**.**
* Expertise in creating Microsoft Active Directory in windows server from WS (2008-2016).
* Strong background in implementing and administrating Microsoft based technology, server infrastructure and its fundamentals, Services and concepts.
* Expertise in configuring, maintaining DNS and DHCP with in domain controllers.
* Experience in trouble shooting networking and DNS issues using Wireshark.
* Excellent experience in deploying SSL certificates to Apache and windows servers.
* Experience in installing and troubleshooting the PC/Server operating systems and applications.
* Created complex Identity and Access Management (IAM) policies for delegated administration within AWS.

**pROFESSIONAL Experience**

**Imperia Engineering Partners-Bordentown, NJ. Feb 2018 to Present**

**AWS SysOps Administrator/Solutions Architect- Associate**

Imperia Engineering Partners "IMPERIA" is a comprehensive engineering consulting firm that leverages innovative technologies and industry knowledge to help companies enhance their business and effectively manage their assets.

**pROject details**

The project is based on setting up environment in AWS cloud using validation scripts and DevOps tools, migrating physical servers, data and database servers as well creating new resources. Setting up domain in office 365 and integrate with physical Active Directory with Azure Active Directory (AAD) tool for SSO and Migrating workstations and servers from one domain to another domain in windows environment and providing technical support on cloud services and hardware, software related issues on physical and cloud locations services. Troubleshooting networking, DNS and computer operating systems.

**Responsibilities:**

* Designed AWS CloudFormation templates to create custom VPC, Route Tables, NACLS, IGW, NAT Gateway and NAT Instance.
* Hands on experience in creating custom DNS with DHCP option sets in VPC with physical location DNS servers.
* Experience on provisioning 2-level security to all EC2 Resources with NACL's and Security Groups.
* Created Sophos UTM firewall for the purpose of NAT instance and firewall for public and private subnets Instances. Implemented SSLVPN connection using SOPHOS with Active Directory windows integrated authentication to access corporate physical network and AWS network from remote locations.
* Hands on creating and monitoring site-to-site VPN connection from VPC to different networking devices on physical location.
* Experience in troubleshooting VPN related issues in SOPHOS issues related to site-to-site VPN connection.
* Excelled in creating peering connections with VPC's from another account and other VPC in the same account.
* Hands on experience in creating EC2 instances with CloudFormation templates and terraform.
* Excellent experience with windows & Linux (Ubuntu, Redhat, CentOS) EC2-instances environment.
* Experience on installing software’s on windows & Linux EC2 instances and troubleshooting connectivity issues by opening specific ports related to application and user account permissions.
* Hands on experience automating AMI's of EC2-Instance using lambda on a schedule basis.
* Managing Automation of EBS volumes snapshots using life cycle manager and deploying to other regions for high availability.
* Worked on troubleshooting and updating PV Driver EBS volume storage in MBR and GPT partitions.
* Maintaining security on EC2-instances using VPC Security Groups, IAM and keypairs.
* Hands on experience in provisioning ELB’s application or network load balancers on EC2 instances for traffic distribution on internal and external applications.
* Created Auto Scaling groups of recent AMI’s and health check as ELB to provide high-Resilience to all EC2-instances and providing scalability based on CPU to adapt to unforeseen spikes without having an outage or needing manual intervention.
* Configured EC2 Windows SQL standard server and joined to domain, performing administration tasks restoring and taking backup of database as well troubleshooting connectivity issues between application and database server.
* Experience in encrypting EBS volumes to maintain security on the volumes for sensitive data.
* Configured file-sharing servers with windows EC2-instances using WebDAV and managing security using domain IIS.
* Hands on experience in creating shadow copying on EC2windows instances for backup purposes.
* Excellent experience on all S3 storage types. S3-Standard, S3-IA, S3- Intelligent tiering, Glacier, Deep-Glacier using console access and CLI.
* Configuring backups to S3 buckets from EC2-instance file-sharing servers EBS volumes with third party tools.
* Created S3 buckets versioning, object level logging providing security with default encryption or customer managed encryption.
* Expertise in creating S3-Bucket life cycle policies to transition objects from standard storage class to cheap storage classes for long-time archival and cost-optimization.
* Experience in creating bucket policies for accessing bucket data only from corporate networks in a certain time.
* Expertise in configuring replication to replicate objects to from one region to other region for high availability.
* Set up static website on S3 buckets with hosted zone on Route 53
* Created environment to backup data to S3 Glacier for long-time archival and cost optimization with PowerShell or Linux scripting.
* Experience in creating storage gateway cached and volume type for data security with iscsi initiator and with Hyper Virtual Machine on physical location
* Experience with configuring CDN for low – latencies of data access.
* Experience in creating hosted zones with public DNS in Route 53 to point static website on S3 buckets.
* Configure RDS database services in custom VPC to restrict access.
* Experience in restoring databases to RDS from S3 buckets with restoring commands.
* Troubleshooting connectivity issues to RDS from corporate network.
* Experience in administrating tasks on RDS such as taking backup, restoring of database server and assigning permissions to different users.
* setup directory with physical DNS servers and domain controllers using AD connector to launch workspace with Active Directory users.
* Creating and launching workspaces in private subnets.
* Creation of images and bundles to launch workspaces with custom settings from the initial workspace.
* Experience in creating CloudWatch alarms with SNS notifications to monitor the health check of an EC2-instances and EBS volume threshold limits.
* Configure CloudWatch alarms and send logs to AWS-S3 buckets to monitor VPN tunnels status.
* Experience in creating users and groups and assign different policies based on resource access using CLI and console access.
* Writing customer managed IAM policies to give different level permissions to users on different resources.
* Experience in creating IAM roles to automate tasks on all resources.
* Experience in creating SAML role to give access to corporate active directory users to AWS services.
* Excellent experience in installing and managing Microsoft Active Directory, Domain Name Services (DNS) and Dynamic Host Configuration Protocol (DHCP) in domain controllers
* Experience with setting up two-way or cross-forest trust between domains for migration of workstations or servers from one domain to another domain using ADMT.
* Involving in domain admin tasks related to Microsoft Active Directory Domain environment such as creating users, groups, group policy, joining computers to domain, automatic software deployment (Windows Server 2016/2008/2012, Windows 7,8,10) and implementing scripts for automation for password policies. n
* Keep Monitoring servers for optimization and pro-active planning by measuring CPU Utilization, Networking performance through kernel and file system tuning.
* Assists in regularly updating operating systems and databases with the latest updates, as well checking all hardware within employee workstations for issues.
* Expertise in troubleshooting networking issues related to server such as Domain Name Services (DNS) and Dynamic Host Configuration Protocol (DHCP) and kernel power failures.
* Administrating secure access to network directories (NTFS File Systems) and shares with Active Directory security groups.
* Experience with creation of design to integrate on-premise Active Directory into Azure Active Directory using SSO in preparation for cloud-based SaaS applications such as Office 365.
* Accessing and Managing office 365 with PowerShell.
* Office 365 Administrator for Email/SharePoint/Skype For Business configuration and setup as well Troubleshooting of Office 365, SharePoint, and Active Directory from a user account perspective and Exchange online services.
* Monitoring and managing email spam filters, anti-virus systems, and vulnerability scanners.
* Created .vbs scripting for the automation of deleting log files on IIS server.
* Configured NAS TeraStation with Active Directory domain to mount as NTFS network drive on domain user’s workstations.
* Experience with creating replication and backups with NAS. Install latest updates using NAS native tools
* Experience with PowerShell scripting to automate all tasks on active directory.
* Experience in installing SSL certificates from certified Authority on Apache and IIS serves to secure website access.
* Involved in Configuring and managing Internet Information Services (IIS) for secure file storage with WebDAV feature and keep monitoring failure logs for read or write operations.
* As part of Help desk support providing end-to-end service on all services available, assist users with network, phone, printing, and make sure desktop and laptop applications are running correctly.
* Track outstanding tickets and follow up with end users to ensure all problems have been successfully resolved.
* Troubleshot/ repair hardware and software problems for all servers and user workstations.
* Part of team in creating standard builds and images for servers & workstations.
* Analyze logs and alerts, either to address current issues or for proactive planning.
* Maintaining network hardware/software and monitoring the network to ensure network availability to all user’s systems and performing necessary maintenance to support network availability.

**Technical skills**

EC2, VPC, S3, RDS, ELB, EBS, Storage Gateway, NAT Gateway/Instance, EFS, CDN, Auto Scaling, Cloud Watch, DNS, DHCP, NAT, Route 53, Work Spaces, SNS, S3 Glacier, Microsoft Active Directory, Azure Active Directory, Office 365, TCP/IP, LAN, WAN, SQL, Identity and Access Management (IAM), Cloud Watch, Cloud Trail, Cloud Formation, Terraform, Jenkins, IIS, WebDAV, SOPHOS, NAS.

**Horizon BCBS-Newark, NJ May 2017 to Feb 2018**

**AWS Cloud/ DevOps Engineer**

Horizon Blue Cross Blue Shield of New Jersey is a health insurance firm providing quality health insurance products and services to New Jersey families and businesses.

**pROject details**

The project is based on deploying services in AWS with DevOps tools. Installing applications on Elastic Beanstalk environment, focusing on fault-tolerance of AWS resources using automation tools and scripts.

**Responsibilities:**

* Hands on experience in Infrastructure Development and Operations. Designed and deployed applications using AWS services like EC2, EBS, S3, VPC, RDS, SES, ELB, Auto scaling, Cloud Front, Cloud Formation, Elastic Cache, Cloud Watch, SNS, and Route 53.
* Experienced in all phases of the software development life cycle (SDLC) with specific focus on the build and release of quality software. Experienced in Waterfall, Agile/Scrum, Lean and most recently Continuous Integration (CI) and Continuous Deployment (CD) practices.
* installed Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Continuous integration with Jenkins. Continuously evaluate and recommend improvement to CI/CD processes.
* Expertise in using version control tools like Subversion (SVN), GIT.
* Extensively worked on Jenkins for continuous integration and for End to End automation for all build and deployments.
* Experience in setting up Baselines, Branching, Merging and Automation Processes using Shell, Perl, Ruby, Python and Bash Scripts
* Experience in software development, including languages, and frameworks such as Python.
* Experience in using Nexus Repository Manager for Maven builds.
* Worked on provisioning different environments using Chef, Puppet and Ansible Configuration management tools.
* Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector services and deployed application containers as Pods.
* Designed, built and deployed a multitude application utilizing almost all the AWS (Including EC2, S3, Elastic Beanstalk).
* Focusing on high-availability, fault tolerance using Auto Scaling with Cloud watch monitoring.
* Experienced in setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backups to S3 buckets.
* Excelled in creating AMI (AWS Machine Images) that utilizes Auto Scaling for high availability with chef automation.
* Cloud AWS UNIX/LINUX System Administration experience in writing shell scripts for security/permissions, cron jobs, mail, disk quotas, send mail queues, SNMP, installing and updating software using rpms, YUM, make, rebuilding the kernel for client/server while administering LINUX.

**Technical skills**

AWS, Azure, Docker, Jenkins, VPC, NAT, IAM, S3, EC2, Cloud Watch, GIT, Web Servers, ELB, Cloud Front, Apache, Nginx, Shell Scripts, Lambda, CloudWatch, Cloud Formation, Cloud Trail, Cloud Front, Chef, Python, MySQL, Amazon RDS, DynamoDB, Elasticsearch, Logstash, Kibana, Kubernetes, VMware, Linux, MariaDB, RHEL, Ubuntu, Ansible, Vagrant, AWS, Bamboo, Selenium, Ranorex.

**Bangalore, India May 2014 to Aug 2015**

*Title* AWS M-Iaas Support

*Environment* Amazon Web Services (AWS), Linux, Windows, Nagios, Splunk and

TrendMicro

*Team Size* 5

**pROject details**

The project is based on supporting multiple applications migrating to AWS.

**Responsibilities:**

* Deploying Infrastructure for all applications migrating to AWS as per the Cloud Reference Architecture.
* Writing PowerShell scripts to upload selected files to S3 as backup.
* Writing or troubleshooting Python code for Lambda service.
* Writing IAM policies in JSON to give granular permissions for different users.
* Migrating On-Premises Databases to Cloud.
* Schedule lambda scripts to take the AMI backup of the EC2 Instances and tagging purposes.
* Monitoring the Cloud VMs using Nagios and Cloud watch tools.
* Setting up a centralized Trend Micro Antivirus service to secure the Instances hosted in AWS from intrusion and virus attacks
* Configure Networking and Load balancers in existing environment as per client requirement.
* Virtual host configuration update on Apache server.
* Uploading the backups to S3 bucket and retrieving the same whenever needed
* Configuring Route 53 DNS as per the Application requirement.
* Patching the RHEL instances based on the criticality of the patches as per the standard practice and ensured the application availability.
* Creating/Modify launch configuration of Auto scaling during the production deployments.
* Configured Auto scaling based on the application loads and utilization metrics.
* Creating RDS instances, taking snapshots and restoring the backup during major deployments.
* Creating IAM roles to provide access to users, applications, or services to access AWS resources and components.
* Configuring IIS to host one or multiple websites on a server.
* Creating and mounting EFS on multiple servers to ensure Synchronization of data across the servers.
* Hosting and verifying Domains in SES and make sure bounces doesn't reach threshold.
* Migrating AMI's and RDS snapshots across accounts to different regions.
* Encrypting EBS volumes with sensitive data.
* Creating and managing User Accounts and Permissions on Linux servers

**Technical skills**

AWS VPC, EC2, ELB, S3, IAM, Cloud Formation, Lambda, RDS, Elastic Cache,Route53, Direct Connect, Cloud Watch, Elastic Beanstalk, EFS, Code deploy, SES,

SNS, Azure Cloud services, Azure VMs, TrendMicro Antivirus, Bastion server, Splunk, Nagios.

**Education and Qualifications**