

Anil Kumar

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**Professional Summary:**

* 11+Years of experience in IT industry as Azure and AWS cloud infrastructure and DevOps, Build/Release Management, Linux Administration, Backup Administrator and support engineer
* Strong expertise on DevOps concepts like Continuous Integration (CI), Continuous delivery (CD) and Infrastructure as Code (IAC), Cloud Computing etc
* Worked on AWS Cloud platform and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, Cloud Watch, ELB, Auto scaling
* Experience on Azure Cloud platform and its features which includes VM, Vnet, Storage, AKS, App Service
* Extensively worked with automation tools like Jenkins and Azure devops to implement the End-to- End Automation.
* Design and implement migration strategies for traditional systems in on prem to Azure cloud
* Extensively worked with automation tools like Jenkins to implement the End-to- End Automation.
* Knowledge on Docker based container deployments to create shelf environments for dev teams and containerization of env's delivery for releases.
* Experience working on Docker hub, creating Docker images and handling multiple containers as a cluster with Kubernetes, Weave and Compose for various applications written in Java and NodeJS and several micro services.
* Implement software and supported CI/CD process via Jenkins for several java applications including setting up pipeline jobs and downstream job configurations in Jenkins.
* Configured and administered Monitoring tools like ELK and Prometheus and Grafana etc.
* Maintained continuous build automation, implemented with Maven run within Jenkins
* Software Development, built and maintained the application that scaled to many users, communicating with cross functional teams.
* Extensive experience with scripting languages like Python and Bash.
* Experience in scheduling jobs using Ansible Tower.
* Built alert & monitoring scripts for applications & servers using Python & Shell Script.
* Implemented a CD pipeline involving Jenkins and Ansible to complete the Automation from commit to Deployment.
* Implement Software architecture designs and solutions for public, private and hybrid clouds covering the cloud architecture tiers and portfolios of cloud services.
* Delivered architecture designs and solutions for public, private and hybrid clouds covering the cloud architecture tiers and portfolios of cloud services.
* Worked with different Bug tracking tools like JIRA, Remedy and Service now
* Good knowledge of implementing configuration management tools Ansible and Terraform treating Infrastructure as Code.
* Architected and designed Rapid deployment method using Ansible to auto deploy servers as needed.
* Solid understanding of current web and internet technologies like Apache,Tomcat, Nginx,
* Strong base knowledge on Software Development Life Cycle (SDLC), in-depth knowledge about Waterfall, Agile and Scrum methodologies.
* 24/7 on-call rotation every other week and always on-call for systems for which I’m the sole expert
* Extensive experience with scripting languages like Python and Bash.
* Strong base knowledge on Software Development Life Cycle (SDLC), in-depth knowledge about Waterfall, Agile and Scrum methodologies.
* **Kubernetes**is being used to orchestrate the deployment, scaling and management of **Docker**Containers
* **Used Jenkins Pipelines to drive all Microservices builds out to the Docker registry and then deployed to Kubernetes.**
* Experience on branching, tagging, merging branches in SCM tools like GIT, GitHub repos
* Download/Install Linux packages using rpm and yum tools.
* Hands on experience on server performance issues on Linux
* Installation, configuration, upgrading, patching and troubleshooting Linux servers.
* Installation, configuration, upgrading, patching and troubleshooting Linux/windows servers.
* To review the backup data regularly to ensure that it is successfully stored.

**Languages and Tools:**

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| --- | --- |
| Scripting Languages | Shell, Python |
| Configuration Management | Ansible, Terraform |
| Source control tools | Git and GitHub |
| Cloud Technologies | AWS, Azure, Docker, Kubernetes |
| Build Tools | Maven, Gradle |
| Continuous Integration tools | Jenkins and Azure Devops |
| Repository management | Nexus, Artifactory |
| Monitoring tools | ELK, Prometheus, Grafana |
| Testing tools | JUnit |
| Bug reporting tools | Jira. Remedy and Service now |
| Packaging Tools | RPM, Zip,War,Yum, pip, gem |
| Operating Systems | Windows and Linux(RHEL/Centos/Ubuntu) |
| Databases | Postgres SQL, MySQL, Oracle, |
| Change Management | Service Now, JIRA, Remedy |

**Liberty Mutual Insurance Oct 2021 to till Date**

**Azure Devops Engineer**

**Responsibilities:**

* Migrating Services from On premise to Azure Cloud environments. Collaborate with development and QA teams to maintain high quality deployment
* Involved in creating the VPN connectivity between On-prem and Azure Cloud infrastructure
* Worked on Azure Backup and Azure Site recovery vault for Disaster recovery .
* Worked on Continuous integration/CI and Continuous Delivery(CD) for Azure Cloud services.
* Configured Azure Traffic manager to build routing for user traffic infrastructure Migrations
* Implemented Cluster services using Docker and Azure Kubernetes Service (AKS) to manage deployments in Kubernetes by building a self-hosted Kubernetes Cluster using Jenkins/Azure Devops pipelines
* Configure software and managed IaaS services like Virtual Machines (VMs), VMSS using Azure portal
* Involved in designing and deploying applications utilizing almost all the Azure resources VM, VNET, VMSS, Load balancer, APP Service, Log analytics, Docker, ACR and Kubernetes
* Created snapshots and Azure images (AMI) of the instances for backup and creating clone instance and can create complex Identity and access Management (IAM) policies for delegated administration within AZure
* Configure and launch Azure VM’s as per requirement, Select and setup Azure in most cost-effective way, Created Traffic manager to route traffic between different regions.
* Developed Templates for Azure infrastructure as a code using Terraform to build staging and production environments.
* Experience in setting up CI/CD pipeline integrating various tools with Jenkins to build and run Terraform jobs to create infrastructure in Azure
* Managed Ubuntu, RHEL(Linux) and Windows virtual servers on Azure VM using ANSIBLE, involved in writing an ANSIBLE playbook from scratch to upgrade these servers one at a time in serial to reduce the downtime of running sites
* Created Infrastructure using Infrastructure as code tools using Terraform as per teams requirement

**Environment:** GIT, Github, Azure Coud Services VM, VMSS, Traffice Manager, Vnet, VPN, Ansible, Terraform, Jenkins, Apache Tomcat, Jboss, Shell Script, Yaml, Unix/Linux, Python, MySQL, Jira, Remedy, nexus, Docker, Kubernetes (AKS)

**IBM April 2016 – Oct 2021**

**MCMS( Multi Cloud Managed services)**

**Devops Engineer**

**Responsibilities:**

* Involved in gathering the client requirements, creating the client servers (Ubuntu, RHEL, windows) hosted in cloud, configuring, and maintaining the launched instances with respect to specific applications, solving the issues raised with the instances.
* Involved in designing and deploying applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud formation.
* Created snapshots and Amazon machine images (AMI) of the instances for backup and creating clone instance and can create complex Identity and access Management (IAM) policies for delegated administration within AWS.
* Configure and launch AWS EC2 instances as per requirement, Select and setup AWS in most cost-effective way, Created AWS Route53 to route traffic between different regions.
* Developed Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Experience in setting up CI/CD pipeline integrating various tools with Jenkins to build and run Terraform jobs to create infrastructure in AWS.
* Managed Ubuntu, RHEL(Linux) and Windows virtual servers on AWS EC2 using ANSIBLE, involved in writing an ANSIBLE playbook from scratch to upgrade these servers one at a time in serial to reduce the downtime of running sites.
* Successfully tested on Staging and Development environments to make the playbooks efficient and reliable with lowering the cost of downtime and making sure to up and running all the sites with latest upgradations of packages.
* Worked in DevOps group running Jenkin Job Builder in a Docker container with EC2 slaves in AWS cloud configuration.
* Performed Continuous Code Quality on the micro services using SonarQube.
* Worked on Fixing the bugs and code smells for the micro services using SonarQube
* Deploying with Docker from our workstation to AWS EC2 which includes build occurs during deployments, with deployment scripts and update scripts and for all applications at the same time.
* Developed micro services on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services. Created and wrote shell scripts (ksh, Bash), Python and PowerShell for setting up baselines, branching, merging, and automation processes across the environments using SCM tools like GIT, Subversion (SVN), Stash and TFS on Linux and windows platforms.
* Used JIRA as a bug tracking tool for notifications, workflows, custom fields, and permissions.
* Scheduling jobs using Ansible Tower Experience and writing Python modules for Ansible customizations.
* Involved in the build automation by using Shell, Bash, Perl, and Python.
* Also, deploying using Docker-compose to deliberately test on these containers to push the configuration changes to production servers without conflicts on databases.
* Worked on infrastructure with Docker containerization and maintaining Docker Images and containers.
* Well versed with setting up tools like Splunk to ensure proper monitoring & alerting is in place for every sprint releases.

**Environment:** AWS, EC2, EBS, ELB, AMI, VPC, auto scaling, VMware, S3, Route53, SNS, Ubuntu, RHEL, Windows, GIT, Python, Docker, ANSIBLE, Terraform, Jira, SonarQube, Jenkins Job Builder, GIT hub, Jenkins, Kubernetes

**Managed Hosting Applications and services**

**AWS SRE**

**Responsibilities:**

* Working as T2 engineer and will be handling calls and troubleshooting the impacted clients devices on the production environment.
* Will be handling troubleshooting tasks on Linux,Vmware environments.
* Also should work with OS Vendors and Hardware Vendors to provide RCA for the issues which were troubleshooted.
* Managing ESX servers and troubleshooting issues related to them
* Decommission of Server at OS level
* Implementing the required changes to the servers as per the client requirement on the production servers online and offline with the prior downtime provided.
* User management, creating and deleting user, group accounts
* Trouble shooting HUNG issues by checking in the console.
* Configuring NFS server and Mounting NFS shares on the servers.
* Checking Hardware status on the servers using linux hardware commands
* Configuring crontab and scheduling the jobs.
* Troubleshooting issue related to cron jobs.
* Vmware tools and up gradation on Redhat VMs
* Creating volumes and managing file system using Logical Volume Manager(LVM)/VxVM.
* Getting LUn details and provide Lun Id information for EMC,Veritas,Linux ,NetAPP.
* Patching OS on regular basis using yum
* Dealing with almost 100+ clients related servers which has Linux, Vmware infrastructure and helping them to resolve the issues in the given SLA

**Environment:**Unix/Linux, AWS (EC2, S3, VPC, ELB, RDS, EBS, Cloud Formation, Cloud watch, Cloud trail, Route 53, AMI, SQS, SNS).

**Past Experience :**

**AT&T Dec 2011 – March 2016**

**Managed Hosting Applications and services**

**Responsibilities:**

* To understand the customers requirement and adding new client to the backup rotation.
* Maintain backup data for a 24x7
* To review the backup data regularly to ensure that it is successfully stored.
* Troubleshooting Solaris/Windows/Linux/AIX clients backup failures engaging different internal teams if required and getting issue resolved.
* To provide assistance to restore the data whenever required on high priority and work on restore issues.
* To monitor and work on the hung jobs, Slow running jobs, long running jobs and escalate issue to the next level engineer for issue resolution.
* To work on daily tape ejects loads and inventories on different libraries coordinating with DCO.
* Tape assessment will be done to make sure enough tapes are present for weekend and work on recalling tapes from iron mountain for restorations and manage them.
* Manage all the tickets raised on backup requirements, failures and work on them.
* To create tickets with Oracle and Veritas and work on getting issues resolved.
* Monitor disk space on the master servers and make sure /opt/openv has enough space.