

KEDAR PRADEEP PANDHARE

AWS CERTIFIED SOLUTIONS ARCHITECT ASSOCIATE (SAA)

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EDUCATION:

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| 1. Master of Science: Computer Engineering | May 2018 |
| New Jersey Institute of Technology, Newark, NJ. | GPA:3.45 |
| 2. Bachelor of Engineering: Computer Engineering | May 2016 |
| Mumbai University | GPA:7.53/10 |

WORK EXPERIENCE:

HSBC Technology and Services USA, Jersey City, NJ

September 2018 - Present

Digital DevOps Engineer

- Designed and developed automated ansible playbooks for integrating Azure SAML Single Sign On (SSO) authentication mechanism in Jenkins thereby enabling horizontal scaling of Jenkins masters for application teams onboarding to Jenkins.
- Developed Release pipelines using Cloudbees CD Flow (formerly Electricflow) thereby creating a streamlined approach towards deploying applications securely for internal teams within HSBC.
- Manage and administer Cloudbees Jenkins Enterprise (CJE) application hosted on AWS for internal application teams within HSBC (~200 teams), triage and fix build failures.
- Responsible for building & configuring AWS infrastructure - EC2, Load Balancers, VPCs, Direct Connect, Route 53 hosted zones, ELB, NLB, IAM, DynamoDB, EFS, RDS, SNS, Lambda functions, S3 Buckets, Squid proxy modules, HA Proxy, Bastion Host using infrastructure-as-code tools like Terraform, Ansible
- Developed ansible playbooks for automating and orchestrating post provision AWS core infrastructure for CI/CD Jenkins like plugin-updates, Jenkins-upgrade etc.
- Worked on migrating the application teams from On-premises to AWS Jenkins thereby reducing the overall HSBC server costs by 40% and eventually demising the traditional hardware servers.
- Incorporated Blue-Green deployment strategy while designing two-tier applications using EC2, ELB, RDS with Postgres SQL for database to reduce downtime and risk in a highly available, highly scalable AWS environment using ansible playbooks.
- Re-designed the AWS network infrastructure as part of Strategic Cloud Connectivity (SCC) Direct Connect strategy within HSBC, thus achieving network traffic segregation based on perimeter zones and using proxies to authenticate the connections to HSBC DRN servers and internet.
- Developed custom baked AMI through ansible playbook to build EC2 instances - upgrading kernel versions, patching and submitting it to scan factory for security, vulnerabilities check and publish to all AWS accounts.
- Develop reusable, secure and compliant Terraform modules to migrate Splunk, AppDynamics, Atlassian JIRA & Confluence services hosted internally within HSBC on AWS.
- Implemented Python and Shell scripts for the automation of the cloud deployments on Linux servers.

FAST Technology, Iselin, NJ

September 2017- May 2018

DevOps Intern

- Experience with AWS cloud services like EC2, S3, RDS, ELB, EBS, VPC, Route53, Auto scaling groups, CloudWatch for installing, configuring and troubleshooting various Amazon machine images for server migration from physical into cloud.
- Reduced infrastructure provisioning costs by ~\$1500 each month by providing optimal solution for the AMI instance types for the servers that served minimal purpose to the business needs.
- Interacted with developers and Enterprise Configuration Management Team for changes to best practices and tools to eliminate non-efficient practices and bottlenecks
- Improved Security of the cloud infrastructure by implementing AWS Guard Duty service to detect & monitor any malicious or unauthorized behavior/activities in the AWS environment.
- Responsible for all database management solutions including upgrades, backups, and restores.
- Performed branching, tagging, release activities on version control tool SVN (Subversion)
- Documented software release notes, automation processes & technological advancements on Phabricator Wiki page.
- Configured and monitored the NFS environment and worked on various protocols: HTTP, UDP, FTP, TCP/IP, DHCP, DNS, NFS etc.

TECHNICAL SKILLS:

- Languages known: Java, Python, C++, Bash, SQL
- Cloud Technologies: Amazon Web Services (AWS), Microsoft Azure
- Monitoring Tools: Splunk, AppDynamics, Datadog
- Build Tools: Ant, Maven
- Configuration Management Tools: Ansible, Terraform
- Version Control Tools: Tortoise SVN, Git.
- Networking Protocols: TCP/IP, SMTP, FTP/TFTP, DNS, NFS, DHCP
- Tools used: MuleSoft API manager, Nexus, Cloudbees Jenkins Enterprise, Docker, Kubernetes