

Mayank Arora

Senior Cloud Engineer

Spent more than 6.5 years developing the skills to increase reliability and quality for on-premise and cloud-based architecture(Azure and AWS) applications with a high focus on security and automation via Terraform and Ansible. Experienced in the implementation and automation of monitoring stack.



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Mumbai, India



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SKILLS

Terraform

AWS

Azure

Site Reliability

DevOps

Ansible

Linux

Docker

AppDynamics

Python

AKS

Helm

CERTIFICATES

HashiCorp Certified: Terraform Associate (04/2022 - 04/2024)

Google SRE Certified from Coursera.

ITIL Foundation

TECHNICAL SKILLS

Cloud	Azure, AWS
Automation/Build Tools	Terraform, Jenkins, Ansible, Helm
Monitoring Tools	Azure Alerts, AWS cloud watch, AppDynamics, Azure Logs, Application Insights
Scripting Languages	Shell, Python, Ansible
Networking	TCP/IP, DNS, NAT, OSI, CIDR, DHCP, TLS/SSL, VPN
Web Servers	Nginx
Operating Systems:	Redhat Linux, CentOS, Ubuntu, Windows

DETAILED SKILLSET

Terraform :

- **Certified Terraform Associate.**
- Proficient knowledge in automating and managing full Azure/AWS components via terraform with zero manual changes via the portal, this includes Infra, Kubernetes deployment (AKS/EKS), and monitoring.
- Setting up Terraform to deploy same configuration from Dev to Prod and DR.
- Creating sentinel policies to keep a proactive track of security and cost optimization.

Cloud Architecture:

- Experience in architecting and designing fault tolerant, highly available, cost effective and secure infra on Azure.
- Designing Infrastructure pipeline in a way that new environment and DR can be provisioned within minutes.
- Configuring Active-Active replicas for Databases and Application in different AZ/Region.
- Defining proper naming conventions and grouping of the resources leads to smooth environment creation.

Azure :

- Hands-on experience with VNet, Virtual Machines, AKS, Load Balancers, DNS Zones, Private endpoints, SQL Servers, IAM, Azure Alerts, App Services, Security Centre, Application Gateway, Azure Firewall, failover group.
- Ensuring that cloud solution follows Microsoft security benchmarks.
- Configuring Active-Active replicas for Databases and Application in different AZ/Region via Azure failover groups(for SQL).
- Creating and automating dashboards via metrics and Azure workbooks.

AWS :

- Hands-on experience with VPC, EC2, Autoscaling, ELB, EBS, Security, RDS, S3, Route53, CloudWatch, CloudTrail, IAM, VPN, RDS.
- Experienced in designing cost-efficient, fault-tolerant, and scalable distributed systems on AWS.
- Creating launch templates and using baked AMI's along with bootstrap for implementation of auto-scaling of Ec2 instances with ELB in place.

DETAILED SKILLSET

Ansible :

- Expertise in automating manual tasks and environment orchestration.
- Designing highly available and fault tolerant architecture using ansible playbook for application and web tier using jinja2 templates and creating modules to interact with load balancer.
- Comfortable with using features like ansible Vault, Roles, Handlers, Tags etc.
- Installing, configuring, and managing the Ansible Centralised Server and creating the playbooks to support various middleware application servers, also configuring the Ansible tower as a configuration management tool to automate repetitive tasks.

Helm

- Basic exposure towards Scheduling, deploying, managing container replicas onto a node using Kubernetes.
- Creating Helm charts to manage and release of helm packages.

Linux :

- Comfortable with Bash Scripting required for Monitoring, Automation or Debugging.
- Expertise in commands to debug issues on Linux OS, web tier and middleware application servers in a distributed environment.

AppDynamics :

- Automated deployment of Java, Machine, and Database agents for monolithic applications and for micro services.
- Correlation analysis/trend dash-boarding of transaction performance and monitoring metrics.

WORK EXPERIENCE

Senior Cloud Engineer

Diebold Nixdorf

07/2020 - Present

Mumbai, India

Achievements/Tasks

- Designed and created Azure cloud infra pipeline, this includes setting up Network, Storage, SQL and AKS on multiple environments.
- Created Infra and AKS for DR and organized multiple DR Dry runs for customers and environments, this includes hot, warm, and cold DR.
- Leading the Azure cloud security and coordinated and organized multiple vendors for Infra vulnerability scans.
- Setting up monitoring for AKS, URL Monitoring, VMSS, Network Watcher, Security alerts, SQL, App Services etc.
- Setting up Azure Firewall and Azure application gateway with automation.
- Onboarding new customers on AKS with different nodepools and supporting their deployment via Helm.
- Implementation of SLOs, SLAs and error budget policies.
- Implementation via terraform to install cross region SQL Servers with auditing and monitoring in place.

Application Engineer

Wirecard acceptance technologies gmbh

05/2020 - 07/2020

Munich, Germany

Achievements/Tasks

- Production support for cloud based and on-prem systems.
- Implementation of monitoring via cloudwatch agents on Ec2 instances.
- Creation of ansible scripts for synchronous start/stop applications in a distributed environment with dependencies checks in place.

WORK EXPERIENCE

Senior Associate : Site Reliability Engineer Institutional Shareholder Services

11/2017 - 03/2020

Mumbai, India

Achievements/Tasks

- Implementation and Automation of Monitoring Stack and Level 3 Application Level Support for middleware and web layer.
- Capacity Management and ansible dynamic inventory management by fetching the server performance metrics via ansible crawler or PuppetDB.
- Implementation of new applications on AWS cloud which includes implementation of route53, VPC, EC2, autoscaling group, and monitoring implementation via cloud watch.
- Creation of a self-sustained monitoring model with auto-discovery and automated configuration for Splunk, Nagios, cloud watch and Appdynamics on different layers.
- Implementing correlation analysis/trend dashboarding with the scope of improving by application tuning and proactive monitoring.
- Ansible based automation for environment start/stop with dependencies checks
- Implementation of SLOs, SLAs and error budget policies.
- Actively worked in an agile software development environment to automate standard operating procedures around common failure scenarios.

Site Reliability Engineer ZYCUS INFOTECH

06/2015 - 11/2017

Mumbai, India

Achievements/Tasks

- Administering, Monitoring and troubleshooting the issues in the Products for Global Clients by configuring tools and understanding the full application flow.
- Performance Tuning of Applications and making the architecture robust and highly available. Techniques include Thread Analysis, JVM Tuning, JMX, Apache Tuning, Solving Slowness Issues.
- Working on POCs for Automations to reduce Process Time Cycles, Monitoring Tools, Health Dashboards, and Reactive to Proactive conversion of Monitors.
- Event management for monitoring alerts via tools like Pager-duty. Streamlining and automating the alerting mechanism with proper assigning to concerned teams.
- Implementation of AppDynamics on 1000+ nodes that include Controller, java agents, EVM, Machine agents, database agents, and synthetic monitoring.

EDUCATION

Bachelor of Engineering, COMPUTER ENGINEERING K.C.COLLEGE OF ENGINEERING.

2011 - 2015

Mumbai, Maharashtra

12TH K.V.IIT POWAI

2010 - 2011

Mumbai, Maharashtra

10TH K.V.IIT POWAI

2008 - 2009

Mumbai, Maharashtra