JASHAN SANDHU

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SKILLS

Automation

AWS/Azure

Kubernetes/Docker

GitHub/BitBucket

Jenkins

Terraform

Python & Powershell

Red Hat, Ubuntu

Advanced Problem Solving

Security

Compliance & Auditing

DevOps principles

EDUCATION

Concordia University
Montreal, QC • 01/2014

Master of Engineering in Information Systems Security

Punjab Technical University
Punjab, India • 10/2010

Bachelor of Technology in Computer Science and Engineering

Punjab Technical Education Board
Punjab, India • 06/2007

Diploma, Computer Engineering

PROFESSIONAL SUMMARY

Dynamic Cloud professional with a passion for crafting robust and scalable cloud solutions. Proficient in translating complex requirements into innovative and cost-effective cloud architectures, with a keen eye for security, reliability, and performance.

PROFESSIONAL EXPERIENCE

Rackspace Technology - Cloud Consultant/Engineer (AWS/Azure)
Remote • 06/2020 - Current

- Worked on CI/CD customized Golden image pipeline, using CIS as base image for RedHat, Windows, Ubuntu using Jenkins and Terraform with AWS EC2 Image builder.
- Created Infrastructure on green field environments using Terraform and proficient in configuring and optimizing AWS resources to meet project requirements.
- Orchestrated DevOps tools i.e. Jenkins, GitHub, BitBucket for CI/CD.
- Collaborated with development teams to containerize applications using Docker and orchestrate them with Kubernetes.
- Monitored threshold and configuring alerts with webhooks on PagerDuty 24x7 for week.
- Worked with PM's to provide project scope definition, milestones and detail all deliverables and authored technical documentation for projects executed.

Flexity Solutions, Inc. - Solution Integrator
Richmond Hill • 01/2018 - 06/2020

- Developed architectural designs for 3-tier application, including front-end, middle-tier, and back-end components, utilizing cloud-native services ensuring High Availability, Fault Tolerance and scalability of application on AWS and Azure cloud.
- Implemented vSphere infrastructure deployments with High Availability and Fault Tolerance, integrating storage solutions.

IBM Cloud Datacenter - Datacenter Technician
Markham • 08/2016 - 01/2018

- Monitored Infrastructure for performance, availability and security using monitoring tools and on-call rotation.
- Troubleshooted hardware and software issues with SLAs and

CERTIFICATIONS

- **Certified Kubernetes Administrator** *(CKA)*
- **AWS Certified** - *Solutions Architect Professional*
- **AWS Certified** - *Advanced Networking - Specialty*
- **AWS Certified** - *Solutions Architect Associate*
- **Microsoft Certified** - *Azure Solutions Architect Expert*
- **HashiCorp Certified** - *Terraform Associate*
- **Red Hat Certified System Administrator** *(RHCSA)*
- **VMware Certified Professional** - *VCP DCV 6.5*
- **VMware Certified Professional** - *NSX-T 2.4*
- **CCNA** - *Routing & Switching*

- Planned and managed capacity including power consumption, cooling requirements and resource utilization.

SEER Pvt. India - Network Technician and Support
India • 09/2010 - 11/2011

- Installed and configured networking components.
- Managed security operations for 50 computers in network, related systems and maintenance protocols.

PROJECTS

Golden Image Pipeline (Jenkins, Terraform, EC2 Image Builder)

- Created a customized golden image pipeline for various line of businesses according to their requirements. The main goal was to have the up-to date AMIs for different teams with pre-installed components to reduce the operational overhead for teams.
- The complete deployment is done through Terraform using Jenkins as a pipeline trigger.
- Source code repository used was BitBucket.
- The base image for Windows, RedHat and Ubuntu was used from CIS Level 1 and on top of that 14 customized software's were installed as a prerequisite.

Instance Scheduler (CloudFormation, EventBridge, DynamoDB, IAM, Lambda)

- Implemented the Instance scheduler stack with CloudFormation. The purpose of this project was to cut down the cost on AWS resources such as EC2 and RDS.
- There were few services created like EventBridge, DynamoDb, Lambda function, Cross account roles to target multiple accounts.
- The schedules and policies for Instance scheduler were stored in the DynamoDB table. Later on many schedules were added to support different teams as per requirements.
- EC2 and RDS in scope were tagged with Key and Value. EventBridge rule will trigger the Lambda function according to the appropriate schedule in DynamoDB table to shutdown and power on the EC2 and RDS instances.
- After the implementation, customer was able to cut down on cost for unused resources and over the weekends as well for the dev and other accounts.

SSM Automation Patching (CloudFormation, EventBridge, Lambda, Automation, SSM, IAM)

- SSM automation project was initiated to overcome the compliance issues. The stack was deployed through CloudFormation and all the required resources were deployed and configured including Lambda, EventBridge, IAM cross account roles, Automation to run patch baseline for Windows and Linux operating systems.
- Once the patching operation was complete, the full report can be looked at the success/fail from the Master account centrally and the troubleshoot accordingly.