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| **­HariKrishna P**  **Phone: +91-7400215211**  **E-Mail:** [**harikrishnapalakila@gmail.com**](mailto:harikrishnapalakila@gmail.com)  **Sovereign Cloud (Azure US. Government (DOD) & Azure Commercial)**  **Securing Microsoft Azure with Qualys & AWS with NGO**  **Packer and Terraform Multi-Layer Architecture - Azure & AWS Kubernetes Cluster and Node-Pools Upgrade to 1.19.1 to 1.23.4, 1.24.1 through terraform and helm** | **PRODUCTION SUPPORT | PREPARING DOCUMENTATION | REQUIREMENT GATHERING**  **------------------------------------------------------------------**  ***A customer-oriented and solution-focused, multitask professional with excellent analytical and troubleshooting skills possess rich experience of over 9.8+years of experience as Consultant; targeting assignments in DevOps + Cloud Administration & FMW Environment Administration & IBM Administration an organization of repute***  **Solution Architect at Creative Synergies Group for client safe-fleet USAGov & CanadaGov** |
| **PROFILE SUMMARY**   * Having 9.8 yrs. of experience in **Sovereign Cloud (Azure US. Government & Azure Commercial) + DevOps (DevOps+ DevFinOps + DevSecOps)** Engineer working on different automation tools (**Terraform Multi-Layer Architecture with RBAC (OPA) & Azure + Azure DevOps + AWS + AWS Cloud Formation**) and **Scripting** **Lang** (Shell Scripting & Groovy Scripting) * **Jenkins – CI(Jenkins-build-salve-ce-terraform) –** Handling **Terraform Infra - CI Pipelines for Provisioning Infra-Resources in Azure-Cloud (init, format, validate, helm-lint, SAST (tfsec, terraformScan), Git Infra-cost, Providers integration - Vault Integration, Cloudflare, AAD, helm, AWS S3, Nexus, AKS etc.)** * **Jenkins – CD(Jenkins-deploy-salve-ce-terraform) –** Handling **Terraform Infra – CD Pipelines for Deploying Resource in Azure Cloud (Using Jenkins Shared Libraries, Modules, TF-Workspaces, Branches, multi-env-values.tf, extra-vars.)** * **Jenkins – CI –** Handing **Application deployment on AKS (build, SAST, DAST, IAST, RAST, Docker Scanning for Vulnerability, Publish REST API Response, ACR)** * **Jenkins – CD –** Handling **Dotnet ASP, Python based Application deployment on AKS Using Ansible (Parallel/forks/serial) - (Shared Library, ACR, Deployment Strategies (Canary, Blue-green, Recreate, Rolling-update), Single SVC, Ingress Controller Integration – AGIC, NGINX) & Domain Mapping with Cloudflare using Key-Vault Integration.** * **Jenkins – CD – Forcing Kubernetes Deployment** & **Forcing K8s Pods** to **Pull Latest Images & Latest Build Version (“${acr\_ur}:${env.Build\_ID}”)** * **Jenkins – CD –** Handling **Application Integration ASK with Azure Database’s (App-Settings-{env}. json, Web.config, setting. init, DACPAC, BACPAC) & Connection String with multiple environment for different Multi-tenants, Azure Standard, Fixable, Elastic-pool,** * **Ansible – CD –** Deplo**y Micro services** in **AKS** using **different Deployment Strategies** (**Canary, Blue-Green, Recreate, Roll-out, delete pod etc.**) **& Latest Build Version (“${acr\_ur}:${env.Build\_ID}” & helm templates deployment etc.** * **Azure – AKS Integrate** with **Mongo-Atlas Cloud** using **Vnet-Peering & Configure Connection** with **Mongo-Compass, Azure Data Studio, dbeaver etc.** * **Mongo-Atlas Cloud Maintains – Network profiles, Authentication & Authorization, Multi-DB – CRUD Operations etc.** * **Azure- AAD integrate with AKS (Azure RBAC) with Groups, Users, Service-Principles with Roles, System-Managed Identity, User-Managed Identity & Azure RBAC – Azure RBAC with Native Kubernetes RBAC etc…** * **GitOps Integration** - GitOps, Argo(Argocd/Argocd-linux-amd64/Argocli), Azure Kubernetes – Deploy & Sync multiple Applications on different Namespaces. * **GitOps Integration - Configure multiple Git-Repo’s with AKS & Deploy Applications on multiple namespaces.** * **Istio – Deploy the Service Mesh & Integrate with Ingress-Gateway & Egress-Gateways to connect multiple external DNS, VIPS, Servers, Clouds, APIs** * **Istio – Gateway & Virtual-Services Configure & Integrate with Multiple Domain, Sub-Domains, Wild-Card Domains, APIs’, Cloud Servers, Cloud Services etc.** * **Istio –** Enable **or** disable **mTLS** (**TLS1.2** or **TLS1.3**) **– MeshConfig.TLSConfig b/w services on Services mesh.** * **Istio –** Integrate **Multiple – Versions of Microservices Application with Gateway & Virtual Services & configure Routing Rules.** * **Istio –** Configure **Service-Entry** for **egress –** traffic control & Bypass (**allows\_all or Registry\_only) to External Services (DBs, Domain, VMs etc.)** * **self-signed certificate: Manual certificate creation, manual secret creation** at istio-**Gateway** & **Virtual**-**Service** Level & Update & Rotate certs * **SSL Certificate from CA: Certs bundle with manual secret creation** at istio-**Gateway** & **Virtual**-**Service** Level & Update & Rotate certs * **cert-manager & lets Encrypt: Automated certificate creation /** rotation at istio-**Gateway** & **Virtual**-**Service** Level & Update & Rotate certs * **Azure Key-vault integrate with CA’s (DigiCert & Cloudflare) & Rotate Certs Renewal – Automatically/ Manually.** * **Certs-Creation, Updating, Rotation – in Automation way.** * **Certs – Conversion pem to pfx format, Crt to pem format etc. Upload in AGIC etc.** * **MongoDB-Atlas Cluster Database’s Configure & integrate with AKS** thru Vnet Peering & Maintained & Network configuration & IP-Segments Whitelisting etc. * **MongoDB Compass, MongoSh, VS Code – Databases creation** & **CRUD** Operation perform on Multiple DB’s **& Mongo Import & Mongo export – Hundreds & thousands of Documents & collections on multiple MongDB on different environments.** * **MongoDB – Connection String configure** & Integrate with VSCode, WSL, Mongo-Compass, ADF, VMs etc. * **MongoDB - User, Role – Authentication & Authorization with Azure AD** * **Azure AD SSO integration with MongoDB Atlas – SSO.** * **Cross plane** – Configure Provider & ProviderConfig to Azure Auth & Authorize to Provision Infra & Application Resource for Multiple Environments. * **Migration** – VMs Migrated from AWS to Azure using Terraform & Packer – as an immutable Images * **Migration** – Migrate Image from ECR to ACR & Vice versa. * **Ansible** - Migrate DBs b/w multiple environment in Azure. * Integrate Qualys with Azure, AWS & vulnerability assessment solution for Azure Infra workloads (Multi-VNET-Regions, VMs, DBs, Containers, App Services, Key-vaults) * Azure Security Center and Qualys Vulnerability scanning service – vulnerability in Azure Container Registry image should be remediated. * Qualys - vulnerability assessment solution for multi-VNET Regions with VM’s * **Deploying Agents & Scanners in Public & Private Cloud Platform & multiple Azure subscriptions** * **Deploy Qualys Virtual Scanner Appliance from Azure marketplace on multiple VNET’s with Multi-Workloads.** * **Qualys – (Qualys-policy-scanning-connector, container, web-app, host connector plugin) integrate with Azure & AWS Environment.** * **Container Security: Vulnerability Management for Docker-image from Build to Run through Jenkins CI-CD** * **Securing Jenkins CI/CD Pipelines with Qualys Container Security** * **Vulnerability Management – Vulnerability Qualities Gates configured on Jenkins Level (CVE, QID, Package Level, Code Level, Application Level, HTST, Cookies, Weak ciphers, strong ciphers, SSL, TLS 3 etc.)** * **Azure** **Multi**-**Tenant** Setups for **Multiple Clients Across Global** & **Multi-tenant AKS Setups configured on Azure Platform.** * **Azure Multi-Tenant Kubernetes Application deployment** with **AGIC** & **Azure Database – Jenkins CI/ CD** * AKS Integrate with AGIC (Application Gateway with WAF\_V2) for Multi-tenant AKS-Namespace Setups on multiple Environment. * AKS Integrate with AZURE DNS & APPGW & ACR & Azure Database for MYSQL (Multi - Replicas setups for HA) * Configure AAD with proper PIM & service Principles (SPN) & Identity Management (System + User Management) for AKS, ACR, APPGW, MYSQL, Key-Vault * Configure Private DNS & NIC for Private End connections & Private Links. * Handling Certs for Domains & Subdomains – Renewal Certs. * Enable Monitoring for Azure Kubernetes with log Analytics workspace & grafana & Prometheus * **Configure Log Aggregation**s with **ELK Stack** (**File beat, log stash, Elastic, Kibana**) for all micro-service containers (/var/lib/docker/container/\*) * **Integrate Mongo-Atlas** with **AKS (Vnet-peering)** * **Architecture** – HUB & Spoke Setups (Azure-firewall, APP-Gateway, AKS, Database’, Log Analytics, Private Endpoints, Private DNS, Private Link, VMs etc.) Configuration with VPN (point-to-site) setups * **Architecture** – Multi-tenant namespace’s - AKS Setup with multi-tenant Database Setups. * **Architecture** – Multi-Regional/ Location – Setups configuration & handling. * AKS - Deploying **GPU** **(NVIDIA, AMD, Intel- Drivers & Libraries & MIG (timesharing & Profile sharing)),** **Windows Containers** & Linux Containers with **Azure Container Instances (ACI)** Connector for Kubernetes for AI Applications & ML Models deployment * AKS – Deploying **ASP** application with **multiple REST API** into Linux Containers & **Windows Containers** with API Path Based Routing Ingress Rules. * AKS – Deploying **Virtual Windows** & **Linux Nodes** for **ASP REST API** & Integrate with **Azure Database’s** & **AGIC** **Ingress** & **Domain Mapping** with **Cloudflare** * Configure / Enable **Azure Defender** & **Azure Security Center** for All Azure Resource & Services for **High Security & Vulnerability Management** * **Securing Microsoft Azure with Qualys & Defender and Securing AWS with NGO** * **Packer – Build Secure Immutable Infrastructures in multi-Cloud** * **Packer with Ansible – Re-Provision & Re-deploy Immutable Environments in Multi-cloud & Multi-Region.** * **Azure Kubernetes Integrate with AGIC & Azure DNS for Multi-Tenant Namespace Deployment.** * **AKS with AGIC configure with Lot of Private Links & Private Connections** * **Configure / Securing Infra Using Private Endpoints & Private Connections & Integrate with Private DNS Zone & Virtual Network Links (AKS, AGIC, ACR, Database (Azure Database), Key-Vault, VMs, WebApps etc.)** * **Integrate with Service connections – Vnets, Subnets with services & Resource (AKS, APPService, SQL Database.)** * **Terraform multi-layer architecture for Azure & AWS with Kubernetes Environment & project Infra- Enhancement & Securing & Vulnerability management.**   **Terraform Multi-layer architecture Security Management using OPA (Open Agent Policy) & RBAC on Jenkins CICD over multiple environment through Alpha tags**   * **Terraform - Azure Kubernetes Cluster and Node-Pools Upgrade to 1.19.1 to 1.23.4, 1.24.1 through terraform and helm** * **Terraform -** **Azure** Add-on-service upgrade to latest version (**core-dns, kube-proxy, Graphic Daemons**) and Active-Active Application Setup (**Zero-down time for Applications**) * **Terraform -** Fixing Domain & LB Level & Pod Level Issue while AKS Upgrade. * **Terraform –** Import pre-existing AWS & Azure Resource in Terraform state * **Terraform –** Workspace configuration on multiple Environments (dev, test, perf, pre-prod, prod) & Pull tf-states from one workspace to another workspace * **Terraform –** terraform.tfstate & terraform.tfstate.backup - files backup from blob storage & s3 based on issue. * **Ansible –** Configure Service principles & Role - assignments (Contributor & Data Factory Contributor) & Authenticate & Authorize with HCL Vault & expose on different Service Level. * **Ansible –** Deploy V-net – Resources & Workloads in multiple Regions * **Ansible –** Deploy VM, VMSS, AKS-node-pools (**NVIDIA-GPU, AMD-GPC, CPU**)- windows- Pools + Linux-Pools & Configure & Deploy AKS Workloads & Application workloads * **Ansible –** Deploy Multiple - Azure Database –MYSQL, Mongo, Cosmos-DB etc… * **Re-Architect** with cloud native features on Azure through terraform with multiple environment (Pull & exchange multiple environment states) * **Re-platform** the Applications structures on Azure & Aws through Terraform * **Retire** & **Decommission** the clouds (Azure & Aws) as per cost-optimization * **Decommission** the applications hosted on cloud (Azure & AWS) * **Using Terraform Loops** (Count, for\_each)**, functions** (Merge, elements, lookups etc..), locals **to provision 100’s Azure Services (Vnet, subnets, Storage account, VM, ACR, AKS,Database (MariaDB, CosmoDB etc), Role etc..)** * **Using Terraform Loops** (Count, for\_each)**, functions** (Merge, elements, lookups etc..), locals **to provision 100’s AWS Services (Storage account(s3), VM, ECR, EKS,Database (MariaDB, MYSQL etc etc), IAM Role, IAM Polices etc..)** * Handling **IDC, OPA+AZURE, Azure DevOps Pipelines, AWS Kubernetes Setups (Master Nodes, Etc. Nodes, Worker nodes, LB’s, Domains)** * **Jira and confluence – working as scrum master and project lead - handling all sprits and sprit Tickets and grooming tickets to all teams (USGov Team + CanadaGov Tem + India Team)** * **Azure Data Studio configure with all database (PostgreSQL, MSSQL, MySQL etc**..) **and have been working on all type of maintance works (backup,restore,connection strings etc) along with integrate with VS Code** * **Handling K8s workloads thru Azure Pipelines on all Environment (Dev, SIT, Replica, DR, Prod)** * **AWS lambda Configuration thru Terraform on Node-Js, Java 8,11 Platform, Integration with SNS-SQS-Cloud Watch Logs-groups, Securing & provide accessing on Private Subnet etc…** * Handing & troubleshoot **MongoDB all Database’s, MongoDBCompass, Kafka**.   **CURRENT EXPERIENCE**  **18th Aug’22- 03rd JAN-2023 with Creative Synergies Group, Bengaluru as Solution Architect.**  **Key Result Areas:**   * Handling USAGov & CanadaGov Teams along with India Team & Multiple Cloud – AZURE, Aws Cloud – Kubernetes Setups through Terraform.   **Role: Solution Architect + Project Lead**  **Duration: 18th-Aug 2022 to 3rd Jan-2023**  **Description:**  Safe Fleet designs, manufactures, sells, installs and services Smart Safety Solutions that improve productivity and reduce the risk of injury.  **ORGANISATIONAL EXPERIENCE**  **25th April’22- 20th Jul-2022 with R-System International Pvt. Ltd for client Reliance JIO, Mumbai as Sr. DevOps Engineer.**  **Key Result Areas:**   * Handling IDC & Multiple Cloud – DC, AWS, AZURE Cloud – Kubernetes Setups   **Role: Sr. DevOps + Project Lead**  **Duration: 25th April 2022 to 20th-Jul 2022**  **Description:**  We are product based company (Multinational Pharmaceuticals) & Implementing all Applications (Microservices) as per PAN India Govt. for our Clients & Automate the Entire Infrastructure & Dockerized environment with Applications. (Dr. Reddy’s Laboratories Applications, money control applications, Multinational Pharmaceuticals Applications, Partner Onboard Applications, Retailer-Applications, Covid-Applications, Health Hub- etc.)  **ORGANISATIONAL EXPERIENCE**  **14th June’2021- 22nd April-2022 with Rigved Technologies for client Reliance JIO. Mumbai as Sr. DevOps Engineer.**  **Key Result Areas:**   * Handling IDC & Multiple Cloud – DC, AWS,AZURE Cloud – Kubernetes Setups   **Role: Sr. DevOps + Infra Manager**  **Duration: 14st Jun 2021 to 22nd April 2022**  **Description:**  We are product based company & Implementing all Applications (Microservices) as per PAN India Govt. for our Clients & Automate the Entire Infrastructure & Dockerized environment with Applications. (Jio Money, Jio-Enterprise, Jio-Partner Onboard, Jio-Retailer, Jio-Covid, Jio-fiber, Jio Health Hub-JHH, One-Jio etc.)  **ORGANISATIONAL EXPERIENCE**  **1st Oct’20- 14th June-2021 with Lance Soft India Pvt. Ltd for client Reliance Capital, Mumbai as Sr. DevOps Engineer + Infra Manager**  **Key Result Areas:**   * Handling Multiple Cloud – AWS, AZURE, Biz-Fly VCC Cloud   **Role: Sr. DevOps + Infra Manager**  **Duration: 1st Oct 2020 to 14th June 2021**  **Description:**  We are product based company & Implementing all Microservices with all bank API’s & Fintech API’s using gRP Protocols and Implementing CI / CD with All Bank’s (Tech-Com Bank, HDFC, Indusind, CITI, YES), Non-Bank ‘s (Indostar Finance & Commercial, Indigo Home Finance, Tisva Commercial Finance), IFFCO (Indian Farmers Fertilizer Cooperative), Fashion / TCB JEANS OFFICIAL web shop (TCB - Two Cats Brand) Clients & Automate the Entire Infrastructure & Dockerized environment with Applications.  **ORGANISATIONAL EXPERIENCE**  **01st Aug’19- 31st July 2020 with Harjai Computer Pvt. Ltd for client Reliance Capital, Mumbai as Sr. DevOps Engineer**  **Production support, Architect and L3, application support, release & change management, working on dev-ops culture.**  **Key Result Areas:**  **• Implemented CI/CD with Automation Terraform & AWS Cloud Formation**  **• Developed and Maintained playbooks and Recipes for Configuration Management using Ansible.**  **• Supporting different environments like Prod, DR, Pre-prod, Fallback, Dev and UAT.**  **• Docker file, Docker-compose file creation, Docker private repository, Docker Multi Containers**  **• Kubernetes Implemented in Dev & Test Environments**  **Title: Reliance Capital Pvt. Ltd.**  **Duration: 01st Aug 2019 to 31st July 2020**  **Description:**  Reliance Capital Limited is an Indian diversified financial services holding company and one of the largest financial services companies in India.  **ORGANISATIONAL EXPERIENCE**  **25th Jan’17-13th July 19 with Future Focus., Mumbai as DevOps + Cloud Engineer + Middleware Administrator**  **Key Result Areas:**  **• Implemented CI/CD with Automation using different tools**  **• Supporting different environments like Prod, DR, Pre-prod, Fallback, Dev and UAT.**  **• Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.**  **Title: ICICIPrudential Life Insurance**  **Duration: 25th Jan’17 to 13th July’19**  **Description:**  As one of the leading life insurance companies in India, we, at ICICI Prudential Life Insurance, offer you various opportunities across different roles and domains. We also help you pursue a career that brings growth and satisfaction.  **ORGANISATIONAL EXPERIENCE**  **07th Oct’14-13thDec 16 with Looban software, Mumbai as Middleware Administrator**  **Key Result Areas:**  **• Implemented CI/CD with Automation using different tools**  **• Supporting different environments like Prod, DR, Pre-prod, Fallback, Dev and UAT.**  **• Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.**  **Title: Indigo Consulting.**  **Duration: 25th Oct -2014 to Dec-2016**  **Description:**  Indigo Consulting**is a leading digital transformation agency in India. We help brands to develop better interactions and expand your reach with our digital.**  l**PREVIOUS EXPERIENCE**  **17th july’13- 30h Sep’14 with Symbiosis Technologies, Visakhapatnam** **as Web Developer**  **Key Result Areas:**   * Implement the Mobile & Desktop Application by Using web Technologies Like XML, XSD, HTML, HTML5, CSS, Ajax, JQuery.   **Role: Web Developer**  **Duration: 17th July’13- 30th Sep’14**  **Description:**  Symbiosis Technologies was founded in 2001 and it is a 100% export oriented unit, registered in the Visakhapatnam Special Economic Zone (VSEZ). We provide high-quality services and solutions to our clients worldwide. The development center for Symbiosis Technologies is located in India with offices in the US. The company aims at developing innovative and cost effective end to end technology solutions with high performance and security.  **EDUCATION**   * B. Tech/B.E. in Information Technology from JNTU Kakinada, Visakhapatnam.     **PERSONAL DETAILS**  **Date of Birth:** 1st July 1991  **Languages Known:** English, Hindi, Basic Marathi  **Mailing Address:** K.T.V Palem, D-no: 4-25/B, Back side of Samajika Bhavan, Golagam, Anakapalle, 531001,Vizag | |
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