Jonathan David Barnard

Contact: 065 667 6653 | **Email:** jony67@live.com | **Location:** Cape Town, South Africa

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Career Objective

Passionate, analytical, and highly skilled DevOps professional specializing in automation, infrastructure, and reliability engineering. Eager to contribute to a dynamic team by developing and optimizing tools that enhance system automation and efficiency, leveraging expertise in PowerShell, Python (Flask), and monitoring technologies like Grafana, InfluxDB, and Prometheus.

Technical Skills

- **Automation & Scripting:** PowerShell (advanced), Ansible, Python (Flask, scripting)

- **Monitoring & Metrics:** Grafana, InfluxDB, Prometheus, ELK Stack (Elasticsearch, Logstash, Kibana)

- **Infrastructure & CI/CD:** GitLab CI/CD, Hyper-V, Failover Cluster Manager

- **Cloud & Containers:** Azure (AZ-900, AZ-104), Docker, Kubernetes (basic)

- **Database & Messaging:** MySQL, Kafka, RabbitMQ

- **Systems & Administration:** Active Directory, Exchange, Veeam Backup & Replication, DNS, DHCP, Windows/Linux Server Administration

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Professional Experience

DigiOutsource

Position: DevOps Engineer (Intermediate)
Duration: January 2016 – February 2024

- **Data Cluster Management**: Set up, manage, and troubleshoot clusters for Elasticsearch, Kafka, and RabbitMQ, ensuring high availability and performance.

- **Dashboard Development**: Developed and maintained Grafana dashboards linked to data sources like InfluxDB, Prometheus, and Elasticsearch to improve visibility into system health.

- **Automation Tools**: Created and optimized tools with PowerShell, Ansible, and Python/Flask to automate routine tasks, enhancing operational efficiency and reducing errors.

- **Self-Service Portal**: Built a self-service portal (HTML, CSS, jQuery, Flask, MySQL) that empowers team members to independently manage application pools, Windows services, and internal diagnostics, resulting in a 30% reduction in support requests.

- **CI/CD Management**: Utilized GitLab for CI/CD, enabling rapid and reliable deployment pipelines and improving deployment consistency across environments.

- **Notable Projects**:

  - **Elasticsearch Patching**: Developed an Ansible playbook to automate patching of Elasticsearch nodes across environments.

- o **Log4j Remediation Tool**: Designed a PowerShell script to scan and remove vulnerable Log4j classes across multiple servers.

Prior Roles at DigiOutsource

Intermediate System Administrator (2018-2021)

- Managed virtual server builds and migrations on Hyper-V, implemented backup strategies with Veeam, and configured high-availability clusters.

- Developed PowerShell scripts for Active Directory, DNS, and Exchange automation, reducing manual administration time by 25%.

IT Support Team Lead (2017-2018)

- Spearheaded process improvements in support operations, enhancing team efficiency and response times.

IT Support Agent (2016-2017)

- Provided multi-shift support for internal applications, Windows troubleshooting, and network issues.

Education

- **AZ-104: Microsoft Azure Administrator** – Self-study, 2022

- **AZ-900: Microsoft Azure Fundamentals** – Self-study, 2021

- **MCSA: Microsoft Certified Solutions Associate** – Self-study, 2019

- **IT Engineering** – Computer Training Institute, Cape Town, 2006

- **Matric** – Good Wood College, Cape Town, 2005

Certifications

- **Microsoft Certified: Azure Administrator Associate**

- **Microsoft Certified: Azure Fundamentals**

- **Microsoft Certified Solutions Associate (MCSA)**

Key Projects & Achievements

- **Self-Service Portal**: Designed and implemented a self-service portal for managing IIS and server services, improving operational independence for teams and reducing dependency on DevOps engineers.

- **Monitoring Setup**: Configured Grafana dashboards integrated with Prometheus and InfluxDB to provide real-time visibility into server metrics, significantly enhancing proactive issue detection.

- **Automated Patching Process**: Built an Ansible playbook for automated Windows patching on Elasticsearch nodes, ensuring compliance with minimal downtime.

- **Infrastructure Checklist:** Built a web application using python/Flask to provide a simpler way of doing morning checks and then tied that into service desk plus (SD+) and Teams. Project uploaded to Github repo.

- **Event Driven Automation:** I designed and built a listener in Python/Flask to receive webhook posts from Grafana Alerting to successfully hook into Gitlab API and start a pipeline. For example, I created a project in Gitlab which was an Ansible playbook to gracefully reboot an Elasticsearch cluster if the API became overwhelmed. The alert in Grafana would be configured with the jobID from Gitlab and would be posted to the service I built which would then execute that job in Gitlab to successfully reboot the cluster based off a threshold set in Grafana.

References

Available upon request.