

# SUMMARY

Riad IKHEFOULMA

Cloud & DevOps Consultant

(region of Paris)

Cloud consultant, with 8 years of experience in setting up private and public infrastructures. Expertise: Design of Architectures in Microsoft Azure, Administration & Implementation of infrastructures in Microsoft Azure, Deployment of applications (IAAS and PAAS environments), System Administration (Linux / Windows

Server), Office 365 Administration, Drafting of technical documents & Project Management.

# CONTACT

Email: riadikhefoulma@yahoo.fr Telephone: +336 46 52 26 90

# TECHNICAL SKILLS

* + Mastery of Linux environment and Troubleshooting (Apache instance, Tomcat, application logs, shell scripting, commands)
	+ Mastery of Windows Server environment and Troubleshooting
	+ Mastery of Azure/AWS resources (IAAS & PAAS)
	+ DevOps environment: Git, VsCode, Azure DevOps, Jenkins, Nexus, Azure Artifacts
	+ Scripting: Ansible, Saltstack, Terraform, ARM, Powershell, Python
	+ Drafting of architectural and deployment documents
	+ ROI & Optimization of infrastructure costs

# TRAINING

*06/2010*

**Camille Saint-Saens High School**| Paris, 95

Scientific Baccalaureate (Academy of Versailles) – Mention Bien

*09/2013*- 06/2015

**University of Science and Technology**| Algiers

master 2 in Networks and Distributed Systems – Mention Bien

*09/2010*- 06/2013

**University of Science and Technology**| Algiers

Degree in Academic Computer Science– Mention Bien

# CERTIFICATIONS

## CertificatesMicrosoft Azure

* + 70-533:Implementing Microsoft Azure Infrastructure Solutions (September 2018)
	+ AZ-102: Microsoft Azure Administrator Certification Transition (March 2019)
	+ AZ-500: Microsoft Certified: AzureSecurity Engineer Associate (September 2020)
	+ AZ-305: Designing Microsoft Azure Infrastructure Solutions (December 2022)

## CertificatesFortinet

* + NSE 1 Network Security Associate (May 2020)
	+ NSE 2 Network Security Associate (May 2020)

# PROFESSIONAL EXPERIENCES

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| Axa FRANCE | July 2023 – Today |
| **DevOps Consultant** |  |
| **Public Cloud (Azure) / Azure DevOps**  |  |

• Creation of Azure DevOps pipelines for the deployment of infrastructures in Azure (Terraform, Yaml), as well as any recurring automation needs in the Cloud.

• Creation of a Powershell automation retrieving all parameters from Azure resources, inserting them into Terraform templates (in order to ensure automated maintenance of Terraform templates)

• Troubleshooting Terraform for updates and new deployments in the Cloud

• Troubleshooting in Azure (Log Analytics, Azure Application Insights, Azure SQL Database, Azure Storage Accounts, Azure Key Vaults, …)

• DevOps environment used: Azure DevOps, Yaml Pipelines, Powershell, Terraform, Git Bash, GitHub, VS Code

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| Groupe LA POSTE | February 2023 – June 2023 |
| **Azure Architect** |  |
| **Public Cloud (Azure) / Azure DevOps /GitLab** |  |

# Azure landing zone design areas and conceptual architecture to provide a secure deployment approach ofr multiple applications

* Creation of an Azure application insights service to Monitor and Troubleshoot Private applications
* Creation of Azure Workbooks and Azure Dashboards
* IAC: Creating and maintaining Terraform scripts for deploying infrastructure under Azure
* Creation of Azure DevOps pipelines and Gitlab pipelines to deploy infrastructure under Azure
* Administration of Kubernetes clusters under Azure, for experimental environments (Azure CLI, Azure Kubernetes Service, Azure Portal)

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| Geodis | April 2022 – December 2022 |
| **DevOps consultant** |  |
| **Public Cloud (Azure) / Azure DevOps** |  |

* Creation of Azure DevOps pipelines in YAML language to automate the build, test and deploy tasks of applications in Microsoft Azure (Visual Studio Code, Azure DevOps, Azure Pipelines)
* Integration of the Veracode tool to check the quality of the application code, creation of pipelines under Gitlab and Azure DevOps
* IAC: Creating and maintaining Terraform scripts for deploying infrastructure under Azure
* Administration of Kubernetes clusters under Azure, for DEV, UAT and PROD environments (Azure CLI, Azure Kubernetes Service, Azure Portal)

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| Christian Dior Couture | November 2021 – March 2022 |
| **DevOps consultant** |  |
| **Public Cloud (Azure) / Azure DevOps** |  |

* Creation of Azure DevOps pipelines in YAML language to automate the build, test and deploy of applications under Azure, of Dior's e-commerce perimeter
* Integration of SonarCLoud and Checkmarx tools to verify the quality of application code
* IAC: Creation of terraform deployment templates for large e-commerce infrastructures.
* Use of Azure Kubernetes Service to ensure the testing part of applications via Selenium containers.

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| Axa France | June. 2020 – November 2021 |
| **Ops Engineer** |  |
| **Public Cloud (Azure) / Azure DevOps** |

* + PAAS: Deployment of applications under Azure with the Azure DevOps tool (Azure Service Plan, Web Applications (App service), Azure SQL Server, Azure SQL Database, Application Insights, Storage account, Key vault)
	+ Creation of CI/CD pipelines under Azure DevOps
	+ Create deployment JSON scripts under Azure DevOps
	+ Monitoring and Troubleshooting under Application Insights
	+ FINOPS: Azure Application Infrastructure Tier Management to Optimize Public Cloud Cost

(consultation of Cloud expenses under Power BI)

* + DevOps environment used: Azure DevOps, Json templates, Git Bash, GitHub, VS Code
	+ Scheduling: TWS tool (E-gen: for the constitution of scheduling chains)

### Private Cloud (IBM)

* + IAAS: Administration and configuration of Redhat 7 servers to ensure the deployment of applications (Apache, Tomcat, VIGI supervision, Oracle)
	+ IAAS: Administration and Configuration of Windows Servers
	+ Patching VMs with Puppet
	+ DevOps environment used: Azure DevOps, ScriptsSaltstack, Git Bash, GitHub, VS Code, Nexus
	+ Scheduling: TWS tool (E-gen: for the constitution of scheduling chains)

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| SNCF for CGI | August. 2019 – April 2020 |
| **DevOps Engineer** |  |

**Migration of on-premises applications to the AWS Cloud**

* + - Create Ansible scripts to migrate Java applications,

.NET under the AWS/Azure Cloud

* + - Build deployment Ansible roles. Publish Ansible roles to GitLab to ensure reuse
		- Update the technical documentation (architectural document, operating document, document

setup)

* + - Running Cloud Deployment Jobs via Jenkins
		- Monitoring of applications under AWS/Azure
		- DevOps environment used: GitLab, Git Bash, VS Code, Ansible, Jenkins, Nexus Repository manager

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| Auxia for onepoint | Feb. 2019 – March 2019 |
| **Cloud Consulting** |  |

**Deployment of Windows 10 via the SCCM tool / Securing workstations via McAfee**

* + - Setting up Windows 10 deployment task sequences
		- Capture user profiles and data
		- Windows 10 System Image Integration - 1809
		- Integration of the various machines and applications to be deployed
		- Pre-deployment tests (Migration / New installation)
		- Deployment of the McAfee agent on IT workstations
		- Configuring Bitlocker and DLP through McAfee

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| Labeliance Invest for onepoint | Nov. 2018 – Feb. 2019 |
| **Cloud Consulting** |  |

**Migrating email to Office 365 and updating systems from Azure**

* + - Office 365 tenant creation
		- Adding a domain under Office 365
		- Creating users and assigning Office 365 licenses
		- Export mailboxes then import from Outlook
		- MX failover and email migration to Office 365
		- Creation of an image under Azure to install Windows 10 Pro automatically on the machines

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| Malakoff Mederic foronepoint | Dec. 2018 - January 2019 |
| **Cloud Consulting** |  |

**IT obsolescence management**

* + - Collection of infrastructure information on a sample of applications
		- Definition of obsolescence parameters on the per application
		- Estimation of obsolete applications
		- Remedial tracks

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| Connecting Food foronepoint | Oct 2018 - Oct 2018 |
| **Cloud Consulting** |  |

Deploying a Symfony application via an Ubuntu Server VM on Azure

* + - Configuring Symfony by Linux commands
		- Configuring Nginx by Linux Commands
		- Installing the Symfony application and compiling JSON and CSS files
		- Configuring and initializing the MySQL database
		- Access test to the application via web browser

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| SOGECAP for onepoint | Oct 2018 - Oct 2018 |
| **Cloud Consulting** |  |

Audit of a Damage Insurance Application Management server (Windows Server 2008 R2)

* + - Server disk analysis (with recommendations)
		- Server-based testing with Windows Server 2008 R2 Resource Monitor
		- Identifying Server-Level Java Heap DUMP Files
		- Investigation of CRA scheduled tasks on server (Task Scheduler and study of source codes)
		- Identification of the VBS, PHP and PERL scripts concerned by each CRA task
		- Updating network share paths at PHP scripts to location
		- Investigating LRC Scheduled Tasks
		- Identification of the VBS PHP and PERL scripts concerned by each LRC task
		- Server-level capacity recommendations
		- Server audit documentation

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| SAPPL Mercedes Benz for BBS-Solutions (partnerMicrosoft) | June 2018 - July 2018 |
| **Azure & Office 365 consultant** |  |

Installation of 3 SharePoint Foundation 2013 environments (Dev, Pre-Prod, Prod):

* + - Creating and configuring SharePoint service and installation accounts under Active Directory
		- Creation and configuration of an automatic installation script of SharePoint Foundation 2013 (AutoSPInstaller) for the 3 environments:
			* environment name
			* version of SharePoint to install
			* location on disk of application folder for SharePoint
			* DisableLoopbackChek set
			* IE Enhanced Security setting disabled
			* SharePoint farm account set up
			* Parameterized cache accounts
			* Configuration of IIS and SharePoint log folders
			* Setting up SharePoint service accounts
			* Appointment of the Configuration Database
			* Appointment of Central Administration Database
			* Configuring SharePoint farm application services
			* Specification of Web apps and site collections to create
			* Specifying the IIS application pools to create
		- Creation of the necessary DNS entries for the URLs of the specified Web Apps
		- Running the AutoSPInstaller
		- SharePoint farm functionality check
		- Creation of the necessary managed accounts
		- Check IIS application pools
		- Check IIS and SharePoint logs
		- Site Collections Access Check
		- Setting up the SharePoint farm Search service
		- Backup of SharePoint Content Bases and SharePoint Farm
		- Drafting of solution architecture and installation documents

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| Fertial for BBS-Solutions (Microsoft partner) | May 2018 - June 2018 |
| **Azure & Office 365 consultant** |  |

Creation of an Intranet portal under SharePoint Online with access management and document tree structure:

* + - Creation and Design of a main communication site (modern SharePoint site) with management of news, events, and documentary container
		- Creation of a menu with tabs corresponding to each Direction
		- Each direction corresponds to a secondary communication site with its own news, and documentary libraries characterizing the direction in question
		- Access configured for each direction via SharePoint security groups: Readers and Members
		- Demonstration of the designed sites
		- Development of a second GED intranet established with various documentary libraries having their own tree structure at the request of the client
		- Documentation on the creation of the Intranet

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| Fertial for BBS-Solutions(Mirosoft partner) | March 2018 - May 2018 |
| **Azure & Office 365 consultant** |  |

Email migration to Office 365 and automated installation of Office 2016 (400 computer stations):

* + - Adding a domain to Office 365
		- Creating users under Office 365
		- Assigning licenses to users
		- Archiving of user mailboxes and recovery of .pst files
		- Migration from Exchange Server to Office 365 (DNS updates and MX and TXT record files)
		- Automated installation of Office 2016 tools via GPO at machine startup (with execution of a batch script)
		- Configuring Outlook email with Office 365 and recovering pst archives for each user
		- Writing installation documentation

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| Cevital for BBS-Solutions(Microsoft partner) | March 2018 - March 2018 |
| **Azure & Office 365 consultant** |  |

Automated installation of Skype For Business and OneDrive Business on 100 workstations via GPO:

* + - Copy of Office365 ProPlus binaries on AD server
		- Creation of two organizational units for installation (32-bit and 64-bit)
		- Creation of an automated installation GPO at startup of the machines (silent installation) within the 2 organizational units
		- Setting up an installation configuration xml file (to install only OneDrive Enterprise and Skype For Business)
		- Creating a batch file for running Office365 ProPLus binaries
		- Incorporating the installation batch file into GPOs
		- Installation tests on a wave of 5 machines
		- Generalization of the installation process on 100 workstations

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| Setram for BBS-Solutions(Microsoft partner) | November 2017 - February 2018 |
| **Azure & Office 365 consultant** |  |

Installation of a secure Windows Server infrastructure (with Backup) on Azure for application publishing to

remotely via RDS (Remote Desktops Services):

* + - Creating an Azure Windows Server 2012 R2 VM with Sophos Antivirus installed
		- Installing SQL Server 2012 and creating an instance
		- Installation of a client's CMMS (computer-aided maintenance management) application on the Azure VM
		- Installing the RDS role (Remote Desktop Services) on Windows Server 2012
		- Configuration of an RDS portal (Web access) accessible from a network outside the Azure VM (internet) with a purchased domain name and pointing to the public IP address of the Azure VM
		- Installation of a recognized and configured authority certificate for access to the RDS portal
		- Initial and weekly backup of the Azure VM configured at this stage
		- Publication of the CMMS application on the RDS portal
		- Test of the CMMS application via the RDS portal from tablets and smartphones
		- Generalization of the process and technical documentation

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| ENASC for BBS-Solutions(Microsoft partner) | November 2017 - November 2017 |
| **Azure & Office 365 consultant** |  |

Office 365 user training for branch managers:

* + - Training with practice on all the tools of the Office 365 Pack:
			* Outlook
			* Office Online
			* OneDrive
			* Skype For Business
			* SharePoint
			* Yammer
			* MicrosoftTeams
			* Schedule

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| SOPI for BBS-Solutions(Microsoft partner) | August 2017 - November 2017 |
| **Azure & Office 365 consultant** |

Installation and monitoring of a SharePoint 2013 Platform with WorkFlow Manager:

* + - Assistance with a manual installation of a SharePoint 2013 farm with the customer (support) and WorkFlow Manager 2013
		- Troubleshooting and help setting up the SharePoint 2013 farm:
			* Research Service
			* User Profile Synchronization Service
			* Restoring Web Apps and Site Collections

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| TouatGaz (Gaz de France - Sonatrach) for BBS Solutions (partnerMicrosoft) | July 2017 - August 2017 |
| **Azure & Office 365 consultant** |  |

Creation of dynamic BI reports from SharePoint data:

* + - Retrieving SharePoint data from SSIS (SQL Server Integration Services)
		- Creation of a data cube with establishment of measures and desired filters on the data at the level of SSAS (SQL Server Analysis Services)
		- Installing a Reporting Services Portal
		- Building BI Reports with Report Builder from SSAS Data Cube
		- Creation of data refresh Jobs under SQL Server to have reports automatically updated
		- Reporting Services Installation and BI Reporting Document

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| TouatGaz (Gaz de France - Sonatrach) for BBS Solutions (partnerMicrosoft) | April 2017 - May 2017 |
| **Azure & Office 365 consultant** |  |

Installation of a SharePoint Server 2016 Farm and WorkFlow Manager:

* + - Creating and configuring SharePoint service and installation accounts under Active Directory
		- Creating and configuring an automatic installation script for SharePoint Server 2016 (AutoSPInstaller):
			* environment name
			* SharePoint version and installation key
			* disk location of application folder
			* DisableLoopbackChek set
			* IE Enhanced Security setting disabled
			* SharePoint farm account set up
			* Parameterized cache accounts
			* Configuring SharePoint log folders
			* Setting up SharePoint service accounts
			* Configuration and Central Admin databases named and configured
			* Configuring SharePoint farm application services
			* Accuracy of IIS Application Pools
			* Specification of Web apps and site collections to create
		- Creation of the necessary DNS entries for the URLs of the specified Web Apps
		- Running the AutoSPInstaller
		- SharePoint farm functionality check
		- Checking IIS Application Pools
		- Verification of logs
		- Creation of the necessary managed accounts
		- Setting up the SharePoint farm search service
		- Setting up the User Profile Synchronization Service
		- Backup of SharePoint Content Bases and SharePoint Farm
		- Installing WorkFlow Manager 2013 and SharePoint Designer 2013
		- Writing architecture and installation documents for SharePoint Server 2016

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| SARPI (SONATRACH – ABB)for BBS-Solutions (Microsoft partner) | February 2017 - February 2017 |
| **Azure & Office 365 consultant** |  |

Replicating a CentOS (Linux) Mail Server on Azure:

* + - Creation of a Recovery services vault under Azure
		- Configuration of the type of replication to reproduce under the Azure portal (from a CentOS physical server to Azure)
		- Azure Site Recovery Provider Agent Download
		- Installing Azure Site Recovery Provider on a Windows Server 2012 R2 Intermediate Server that Acts as a Replication Driver
		- Configuring the Configuration & Process Server (Windows Server 2012 R2)
		- Installation of the mobility service under the master target server (CentOS server) with Linux commands
		- Installation of replication FX and VX agents under CentOS Server with linux commands
		- Replication authorization enabled under Azure portal
		- Demonstration made to the customer

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| iServ Solutions | July 2016 - January 2017 |
| **System Engineer** |  |

Completed tasks :

* + - Maintenance and system configuration of servers in the DataCenters of: Ooredoo, Ericsson, Djezzy
		- Virtualization and Clustering with HP servers
		- Mastery of Unix and Linux commands for Troubleshooting and Server Backup

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| STAR BRANDS SPA | December 2015 - March 2016 |
| **Research and Development Engineer** |

Completed tasks :

* + - Realization of a Client/Server application for Human Resources management with C# and ASP.NET
		- Handling production databases under SQL Server: Queries, jobs, stored procedures
		- HHT mastery of INTERMEC PDAs

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| SEAAL | August 2012 - August 2012 |
| **Network and System Administration Intern** |

Completed tasks :

* + - Active Directory and DNS on Windows Server
		- Backing up data with Symantec Backup Exec

# LANGUAGES

### Living languages

**French :**Excellent mastery

**English :**Good mastery of reading, writing and speaking

**Spanish :** Good mastery of reading, writing and speaking