CARLOS FERNÁNDEZ SAN MILLÁN

Head of ICT & Digitisation

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⚱ 18th June 1977 🗓 Last Updated: May 20, 2024

Head of IT with 20+ years of experience in international IT enterprise environments. Experience in projecting Data Centers, and High Performance IT infrastructures. Managed large scale virtualization and storage infrastructures, proficient in Linux, VMware, NetApp, and PowerScale with deep passion for enterprise-wide management, security, and optimization. Ability to work as a team, experience in international multidisciplinary groups, primarily in education and research environments, leadership and fast learning ability. Always interested in challenging projects, as well as close interaction with manufacturers.

EXPERIENCE

Head of ICT and Digitisation

Human Technopole

🗓 January 2023 – Present 📍 Milan, Italy

– Responsible of the Human Technopole's ICT and Digitisation Department
  - Managed a multi-million € / year budget department (≅ 8-12M €/year [fluctuating depending on year's requirements])
  - Manages the IT infrastructure and offers support for the National Facilities

Chairman IT Review

European Council on Foreign Relations

🗓 Sep. 6th., 2023 – Sep. 8th., 2023 📍 Berlin, Germany

Chaired the panel who was assigned to Review the IT Deparment of the ECFR

Data Center Infrastructure Manager

Human Technopole

🗓 May 2022 – December 2022 📍 Milan, Italy

– Responsible of Data Center Infrastructure
  - Support in defining and implementing IT standards and processes in accordance with the regulations applied by the competent authorities and the Foundation's policies and Internal rules.
  - Manages the high-performance IT infrastructure
  - Manages centralised data storage dedicated to scientific research
  - Manages Backup, Business Continuity and Disaster recovery
  - Manages network security and control and MAN Campus network management
  - Provides user support for scientific computing and liaise with Heads of Research and research staff for managing demands and needs
  - Defines procurement planning for Data center-related hardware and software and manages related contracts and suppliers
  - Monitors IT infrastructure including physical infrastructure and support services
  - Coordinates with other departments for all aspects concerning the maintenance of existing facilities and design/building of new ones.

Storage and Virtualisation Engineer

Human Technopole

🗓 January 2021 – May 2022 📍 Milan, Italy

– Responsible of Storage and Virtualization
  Management of central storage based on PowerScale, VMware and VDI infrastructure, and other linux based services like Eduroam and Radius authentication.

STRENGTHS

Linux Administration VMware Administration
NetApp Administration MySQL Optimization
PowerScale Administration vSAN Scripting
Veeam Backup & Recovery

PROFESSIONAL SKILLS

- **Virtualization:** VMware vSphere, VMware Horizon, OpenNebula, oVirt
- **Storage:** NetApp, PowerScale, DELL Unity, QNap, Synology
- **Backup:** TSM, Veeam
- **Monitoring:** Zabbix, vROps
- **ERP:** SAP
- **Network:** Fortigate, Extreme Networks, Netgear, Linksys, MicroTik, TP-Link, Ubiquity, ZyXEL, D-Link, AVM
- **Operating Systems:** RedHat, CentOS, Debian, Ubuntu, SuSE
- **Services:** LDAP, DHCP, DNS
- **Automation:** Foreman, Puppet, Ansible, Scripting
- **Containers:** Docker
- **Container's Orchestration:** Kubernetes

CERTIFICATES

Bacula Administrator I

Bacula Systems

🗓 Apr 2021 📍 Milan, Italy

Bacula Administrator I

VMware Certified Associate - Data Center Virtualization

VMware

🗓 Dec 2013 📍 Heidelberg, Germany

Credential ID 12011513-BE5E-90361323E2E7

SOFT SKILLS

Learning Potential Team Work Organization
Flexibility Professionalism Responsibility
MultiTasking Work Under Pressure Initiative
Problem Solving Proactiveness Social Skills
Curiosity

Systems and Virtualisation Engineer

European Molecular Biology Laboratory - EMBL

📅 October 2018 – December 2020   📍 Heidelberg, Germany

Systems Engineer

European Molecular Biology Laboratory - EMBL

📅 October 2012 – October 2018   📍 Heidelberg, Germany

- Responsible of VMware Cluster (28 physical hosts & 650 VMs)
  Migration from ESX 4.1 to ESXi 5.1, 5.5, 6.0, 6.5 and 6.7 (VMware vSphere Enterprise Plus). Consolidation of VMware Clusters in Heidelberg, Rome, and Barcelona; managed from Heidelberg's HQ. Responsible of the High Performance, GPU Driven, VDI infrastructure. Planned, configured and administered vSAN for the VDI cluster. In charge of the virtualisation backup with Veeam Backup & Replication.

- NetApp administration [Data ONTAP until 9.7] [18 nodes $\approx$ 9 PB]
  Management of volumes, qtrees, policies (export, QoS, quota, snapshots), network interfaces. Monitoring the 14 node cluster to ensure optimal performance. Migrated qtrees and volumes from the legacy 7-Mode cluster to Data ONTAP.

- Other responsibilities
  Datacenter management. Linux Support. Management and support of application such as Alfresco and Owncloud. Development of tools in python to consume APIs. Management of central infrastructure with Foreman, Puppet and Git. Monitoring infrastructure with Zabbix.

IT Manager

Digital Arts & Designers, S.L.

📅 July 2010 – September 2012   📍 Las Palmas de Gran Canaria, Spain

Management of IT Projects. Linux Administration. Server Management. Networking Management. Monitoring and keeping infrastructure in optimal conditions. Responsible of purchasing technical equipment and keeping good relations with providers.

Freelance System Administrator

FIFA

📅 June 2010 – July 2010   📍 Pretoria & Johannesburg, South Africa

System administrator of Referee Channel, an e-learning platform based on web and video-streaming for FIFA Refereeing Department during the 2010 FIFA World Cup.

EDUCATION

Technical Engineering in Computer Science

University of Las Palmas de Gran Canaria

📅 2000 – 2005   📍 Las Palmas de Gran Canaria

Activities and Societies: Gran Canaria Campus Junior Enterpreneurship

BSc Computer Science

School of Arts and Science, University of San Francisco

📅 1996 – 2000   📍 San Francisco, California

Activities and Societies: USF Men's Soccer Team.

Summer Courses

University of California, Berkeley

📅 Summer 1998   📍 Berkeley, California

Physics and Computer Architecture.

LANGUAGES

Spanish - Native
English - Full Prof. Proficiency
Italian
Galician
Portuguese
German

REFERENCES

Dr. Rupert Lück, Head of IT.
@ European Molecular Biology Laboratory
✉ lueck@embl.de

Prof. Dr. Cayetano Guerra Artal, Professor of Computer Science & Artificial Inteligence
@ University of Las Palmas de Gran Canaria
✉ cayetano.guerra@ulpgc.es

OTHERS

- Driving License – B
- SSI Diver Level 3 (MID 312710)
  11-2016 – Specialty Diver
  11-2016 – Dry Suit Diver
  10-2016 – Enriched Air Nitrox
  09-2016 – Perfect Buoyancy
  11-2015 – Mission Deep Ocean Ranger
  11-2010 – Open Water Diver

RECOMMENDATIONS

Available upon request

PREVIOUS JOBS / COMPANIES

- Jan 2009 - May 2010 | Systems administrator, Neuronal Software S.L.
- Mar 2008 - Dec 2008 | Media Producer & System Administrator, Univ. of Las Palmas de G.C.
- Dec 2005 - Feb 2008 | IT Consultant - Freelance
- Oct 2005 - Nov 2005 | Technical officer, Gran Canaria Espacio Digital
- Sep 2004 - Jun 2005 | Consultant, Gran Canaria Campus junior entrepreneurship
- Jun 2002 - Jul 2002 | Project Manager & Developer, La Provincia, Diario de Las Palmas
- Sep 1997 - Sep 1999 | Laboratory Assistant, University of San Francisco

TRAINING

Presential Instructor-Led Training

- 08-2023 – ITILv4 Foundations [IT-ITIL4F-P] (Fast Lane)
- 04-2023 – PRINCE2 Practicioner [PRINCE2P] (Fast Lane)
- 01-2023 – PRINCE2 Foundations [PR-PRINCE2F] (Fast Lane)
- 04-2021 – Bacula Admin I (Bacula Systems)
- 03-2019 – Kubernetes Fundaments & Operations Bundle (Amazic via Evenbrite)
- 09-2016 – VMware vRealize Automation: Install, Configure, Manage [V7.0] (VMWAREVRICM7) (QA Limited)
- 05-2016 – VMware vSphere: Install, Configure, Manage plus Optimize and Scale Fast Track [V6.0] (VMware)
- 07-2015 – IBM Tivoli Storage Manager 7.1.1 - Implementation and Administration (QA Limited)
- 10-2014 – Clustered Data ONTAP 8.2 Administration [NA - DCADM] (Fast Lane)
- 11-2013 – Data ONTAP 7-Mode Administration [NA - D7ADM] (Fast Lane)

Online Training

- 04-2020 | VMware Skyline Support
- 04-2020 | Learning VMware Horizon 7
- 03-2020 | Essential Container Concepts
- 02-2020 | Beginner's Guide to Containers and Orchestration
- 02-2020 | Ansible Quick Start
- 09-2018 | Puppet Quick Start
- 09-2018 | DevOps Essentials
- 08-2018 | Mastering The Linux Command Line
- 08-2018 | VIM - The Improved Editor
- 08-2018 | Git Quick Start
- 05-2026 | Optimize and troubleshoot performance issues in VMware
- 12-2013 | Data ONTAP 7-Mode Fundamentals
- 07-2013 | Data ONTAP 8.1.1 7-Mode New Features
- 07-2013 | Data ONTAP License Key Replacement Scenarios
- 07-2013 | Introduction to NetApp Products
- 07-2013 | NetApp Transition Fundamentals
- 07-2013 | Technical Overview of Licensing in Data ONTAP 8.2
- 07-2013 | What's New in Data ONTAP 8.2 Licensing

PROJECTS

Referee Channel

Digital Arts & Designers S.L.

📅 October 2010 – October 2012   📍 International

- Referee Channel is a classification system of all game situations occurred in competition's matches which can be consulted from anywhere in the world without having to duplicate resources, allowing to establish a reliable and proactive communication system between all members of an organization. I was in charge of the server infrastructure and correct operation of the application.
- This tool was used by several institutions and during several competitions in these countries: Colombia, Spain, South Africa, Russia, USA
  - 4th South American Under 20 Futsal World Cup Championship. Itagüí (Colombia)
  - I-International Planet of Football, and Technology organized by Royal Spanish Soccer Federation. Madrid (Spain)
  - 2010 FIFA World Cup South Africa. Pretoria, (South Africa)
  - Russian Soccer Federation. Moscow (Russia)
  - CONCACAF Gold Cup 2010. New York (USA)

112 Accesible

University of Las Palmas & Cátedra Telefónica

📅 June 2011 – November 2011   📍 Las Palmas de Gran Canaria

- 112 Accessible is a winning project of the prize from Cátedra Telefónica developed in the University of Las Palmas to help the emergency services to be more accessible to people who can't contact the 112 Emergency Center by voice call. I organized and produced the contents for 112 Accessible

IESCampus

Neuronal Software S.L.

📅 June 2008 – June 2010   📍 Las Palmas de Gran Canaria, Spain

- IESCampus is an innovative educational website where you find all the resources necessary to achieve quality training in Secondary Education and Baccalaureate. IESCampus includes the full syllabus of the subjects, providing an excellent educational tool for students, and their teachers and parents

Prometeo

University of Las Palmas de Gran Canaria

📅 July 2007 – June 2010   📍 Las Palmas de Gran Canaria, Spain

- E-learning application for the University of Las Palmas de Gran Canaria, based on web and video streaming, in compliance with Bologna Process.

PUBLICATIONS

📄 Collaborator

- A. Vinceti, R. R. D. Lucia, P. Cremaschi, *et al.*, "Crisprcleanr webapp: An interactive web application for processing genome-wide pooled crispr-cas9 viability screen," *Cell Reports Methods*, p. 38, Apr. 11, 2022. DOI: 10.2139/ssrn.4081522, Accepted.

📄 Acknowledgements

- M. Cortese, Ed., *Integrative Imaging Reveals SARS-CoV-2-Induced Reshaping of Subcellular Morphologies*, Dec. 9, 2020.

PRIVACY AUTHORIZATION

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".