Andrea **Di Iulio**

CLOUD ARCHITECT

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Summary

Cloud Architect at DXC Technology. 18 years of experience in engineering, architecting and deploying IT traditional and cloud solutions. Strong supporter of open source and community collaboration through freely available resources. I prefer Vim.

Skills

Cloud	AWS, VMware on AWS, OpenStack, Google Cloud, VMware SDDC, Hybrid & Virtual Private cloud solutions
Traditional IT	Open & commercial Linux, Disaster Recovery, VMware vSphere and SRM, OS modeling & engineering
Certification	AWS Certified Solution Architect (12/2017), Google Cloud Platform Professional Architect (ongoing)
Software-defined networking	Public Cloud networking (AWS, GCP), AWS Direct Connect, hybrid layouts (e.g. AWS transit VPCs, NSX
Orchestration & Hybrid Cloud	Scalr, Terraform
Programming & IaC	Ruby, C, LaTeX, Go, GitHub, CloudFormation, Terraform, Docker Compose
Languages	Professional english, italian

Work Experience

DXC Technology
Rome – Italy

CLOUD ARCHITECT
April 2017 – now

- AWS hub/spoke architecture with a transit VPC based on Check Point CloudGuard. Multi-region deployment, with secondary region as 1:1 disaster recovery environment. The deployed architecture delivers services for an insurance corporate.
- End-to-end responsibility on a Hybrid Cloud proposal using Scalr cloud management platform backed by private and public VMware software-defined data centers (public ones using VMware on AWS). Core/edge computing model. Orchestration framework based on Scalr+Terraform integration, driving back-end contexts such as Oracle ExaCC and NSX-T virtual networking (alongside the Hybrid Cloud itself). The proposal ranked #1 across competitors.
- Architectural design, proposal, volume and cost modeling for a dual-AZ VMware on AWS deployment, adopting DXC's own internal offering.
- Dry-run sessions with the VMware on AWS offering team for an end-to-end architectural review and documentation quality walkthrough.
- Within the SPC Cloud community cloud (www.cloudspc.it), implemented by DXC, target atchitecture design, migration planning and execution of a Government Authority website and integrated services (www.autorita-trasporti.it).
- For an EMEA customer, end-to-end accountability on a multi-region AWS solution with common Organizations layout and general network layout based on multiple Direct Connect gateways. Security, network and VPC design. Full logical security layout using AWS Organizations and IAM policies. Integration and orchestration artifacts via DXC Private Cloud solution and its own portal. Full analysis on the SNOW's ITSM capabilities and full-working orchestration proof of concept.
- For an italian oil&gas customer, dual-site Red Hat Openstack architecture and proposal with underpinning block, object and image Ceph stretched cluster.
- Within the italian automotive context, architecture definition and proposal of a Container as a Service internal solution - based on Docker, Swarm and a custom CI/CD pipeline, developed and maintained by local delivery teams. Cost modeling and transition planning.

Hewlett Packard Enterprise
Rome

INFORMATION SYSTEMS ARCHITECT
2009 – April 2017

- Part of the SPC Cloud development team. Main contributions: Oracle PaaS catalog, relevant licensing and restricted workload placement, underpinning technical architecture, cost and price modeling. Also, I worked for enabling a custom dual-site OpenStack deployment with Disaster Recovery capabilities. SPC Cloud is a community cloud solution for Gov't agencies (federal, central) based on HPE Helion Openstack and custom requirements.
- Docker & Swarm multi-node deployment underpinning a long-running training service for the Ministry of Justice.
- Application containerization within a virtual private cloud, for a banking application.
- VPC architecture, migration planning, cost modeling and IaaS setup enabling a SAP relocation two different EMEA & UK customers.
- Disaster Recovery for a core service of the Ministry of Justice, between two main DCs, using VMware SRM. End-to-end task including requirements definition, target architecture (under and over DR), relationships with internal and external stakeholders including vendors, and team leadership.
- Multi-node VMware deployment and Oracle RAC deployment for a Gov't agency: project and technical management.

EDS Electronic Data Systems *Rome, Milan*

TECHNICAL ARCHITECT, SYSTEMS ENGINEER AND PREVIOUS ROLES *2000 – 2009*

- Corporate e-mail system head of service delivery and contiuous improvement. Integration between commercial & open source products.
- UNIX & Linux systems modeling, software packaging and automated deploying for the Ministry of Education.
- Systems modeling and hardening for the 2004 & 2005 electronic polling experimentations by the Italian Government: I developed the OS part of the e-vote kiosks.
- For Fata Informatica: Technical trainer (classroom) on Java, C, C++, and consultant on systems engineering and service administration for the Ministry of Education
- For Frama Development (Milan): programmer on CRM and DWH solutions.