Percy Kwong

Cloud and Infrastructure Architect

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SKILLS

Application Infrastructure and Architecture

Hands-On Virtualization and Storage (Traditional and Cloud Platforms)

Hands-On Dev-Ops Toolchain implementation and Management

Process and Systems Automation

Excellent Written and Communications Skills

Extensive Hands-On experience with Network and Application Security

ABOUT ME

I'm an extremely hands-on Application and Infrastructure Architect with 27+ years of experience building and refactoring Application and Compute Infrastructures with a focus on Efficiency, Resiliency, and Performance.

My focus is on working with companies to design and deploy architectures that provide continuity of service and future scalability.

I am commonly tasked with leading and mentoring teams on projects I participate.

I believe that to be effective, one should lead by example; I'm a doer. I try to maintain the highest level of ethics and morality at all times.

WORK EXPERIENCE

Koi Consulting (1995 > Present)

Infrastructure and Cloud Application Architect with experience in Azure, AWS, Rackspace and Openstack

Infrastructure and Hybrid Architecture for Integration and Migration from traditional Legacy Solutions to Cloud / Virtualized Platforms

Served as Chief Geek (Chief Architect) at Crosslayer Networks to design and build a fully automated infrastructure for a new carrier infrastructure.

Consulted with Nexius Insight to provide SDN and NFV capabilities for AT&T, Verizon Wireless, and other Tier-2 and Tier-3 carriers.

Created and Trained AT&T infrastructure and operations teams in Openstack installation and management. (Bare-Metal Install to API Operations)

Created Virtualized DNS solution for Verizon Wireless and HP Enterprise Solutions using F5, NFV Director, and Nominum DNS.

Created Virtualized DNS solution for AT&T AIC Labs using Bind. Final solution provided an autoscaling Virtualized Network Function performing 20K queries-per-second on each two-core instance.

Worked with FICO to rearchitect Adeptra Fraud Prevention solution for efficient deployment into AWS. Clients included most major US banking institutions.

Worked with Shoedazzle to implement and rearchitect a fully-redundant Active-Active solution in Amazon AWS that handled 30M+ visitor sessions per day. Increased resiliency from 99.0 % availability to 99.999% availability over two years. Served as one of two Enterprise Linux Administrators. Handled deployments of 3-5 deployments using a Dev-Ops toolchain per day to production.

Worked with Abvee Pharmaceuticals to implement research development infrastructures in Amazon AWS using Cloudfront, EC2, and S3.

Worked with Neustar to develop and deploy distributed database infrastructure in Amazon AWS for Ultraviolet, a major industry digital rights management system utilized by major content producers.

Developed and Deployed Accenture's customer development environments using a full Dev-Ops toolchain and Chef on Windows for their new client onboarding process. Reduced provisioning time for development environments from 30 days to approximately 10 minutes.

Develop and Deployed a VOIP traffic transport solution for International toll-based traffic system utilizing Amazon's AWS footprint to originate and terminate traffic from the US to Europe and the Middle-East. The solution utilized Open Source technologies (Asterisk, IPSEC, and Freeswitch to reduce cost and improve uptime). Built using EC2, S3, RDS, ELB (Amazon AWS Technologies).

Worked with MDLIve (Telemedicine platform) to stabilize and migrate their existing infrastructure from their hosting provider to Microsoft Azure Cloud.

Vertical Market Expertise

Healthcare, Telecommunications, E-Commerce, In-Building Networks, Information Security

References

Available on Request

Technical Skills List

All of the skills and technologies listed here are the culmination of 27+ years of professional exposure and another 10+ years of personal intellectual curiosity. The majority of this experience was acquired out of necessity and self-taught. This is not a concise list, but a relatively good approximation of my experience with skills and packages over my entire career. In summation, I have probably neglected to list a good part of the technologies I have experience with here, because I simply forgot to add them due to the broad exposure to technologies I've had throughout my career.

Virtualization Platforms:

- Xen
- KVM
- VMWare /vSphere
- Hyper-V
- Docker
- Kubernetes
- Openstack

Cloud Platforms:

- Rackspace
- AWS
- Azure
- Openstack
- Linode

Languages:

- Bash
- Powershell
- Batch Scripting (DOS)
- Python
- PHP
- Ruby on Rails
- ANSI C/C++
- Java / JEE
- HTML 4/5
- CSS
- Legacy Languages:
    - Fortran
    - Cobol
    - 8 bit ASM

Operating Systems:

- Unix
- Linux (All)
- FreeBSD / OpenBSD / NetBSD
- Solaris
- Trusted Solaris
- VMS
- Windows Server Platforms *([3.11] NT to Current)
- MS-DOS

Web / Application / Software Servers:

- Nginx
- Websphere
- Apache
- Tomcat
- JBOSS
- Hadoop
- Mysql
- MariaDB
- RabbitMQ
- Bind
- Oracle 8/9
- Postgres
- Redis
- MemcacheD
- OpenvSwitch
- Postfix

- Sendmail
- Qmail
- WordPress
- Joomla
- FreeIPA
- Radius
- Origin (CDN)
- FlexLM
- Veritas
- Legato
- Networker
- IIS
- SQLServer
- Active Directory
- Sharepoint
- Exchange
- Asterisk
- Pentaho
- SNA Server – Token Ring to Ethernet Bridge

Security:

- SSL / TLS
- IPTables
- PFSense
- Checkpoint
- Fortinet
- Cisco
- Port Knocking
- Snort
- General IDS
- General IPS
- OSSEC
- AlienVault

Networking:

- IPv4 / IPv6
- Routing
- RIP / BGP / OSPF
- F5 and F5 License Manager (for Virtual LBs)
- Cisco
- Juniper
- Token Ring
- Infiniband (IPoIB)
- Ethernet

- OpenContrail / Contrail
- Openstack
- Gigabit+ Optical Technologies on Fiber (Single and Multi-Mode)
- CWDM / DWDM

CI / CD:

- Git
- Artifactory
- Jenkins
- Chef
- Ansible
- Puppet
- Mocha / Chai / Selenium
- Travis
- TeamCity
- Maven
- Serenity
- Cypress
- Robot

Logging and Audit:

- Graylog
- ELK (Elasticache / Logstash / Kibana)
- Syslog

Load Balancers and Resiliency:

- HAProxy
- F5
- Nginx Reverse Proxies
- AWS
- Azure
- Digital Ocean
- Cloudflare
- Loadmaster