

**Summary:**

Muthu has more than 2 decades of experience as Enterprise Architect, IT Consultant, Systems Manager, System and Network Administrator and has managed and headed many projects, worked in team and alone in different countries for implementation of Datacenter Infrastructure, Enterprise Systems Implementations, management and programming.

**Specialty Skills:**

- Enterprise architecture design, implementation and governance using vast field experience and including architecture frameworks like TOGAF.
- Enterprise IT - Set targets, KPIs, plans and budgets (CAPEX & OPEX) with strict control and adherence.
- Planning and implementation of financial systems Security, governance and PCI-DSS implementation etc.
- Financial Technology (FinTech) Infrastructure IT Strategist and Implementation specialist.
- Enterprise infrastructure implementations and management using multiple vendor technologies including hyper-converged infrastructure (HCI) technologies.
- Storage Area Network (SAN) Technologies Design, Implementations, and Management using EMC, HP and NetApp.
- Backup Solutions including NetBackup, Veeam and Openview Dataprotector.
- Disaster Recovery and Business Continuity technologies.
- Virtualization using VMWare, Microsoft Hyper-V, KVM and Citrix Solutions for Datacenter and VDI.
- Cloud Technologies with Amazon Web Services (AWS), Microsoft Azure and Docker containers.
- Enterprise infrastructure and applications performance tuning and diagnostics.
- Enterprise Open source technologies Implementations and management.

**Education:**

**Bachelor of Engineering (B.E. - Electronics and Communication Engineering),**  
University of Madras, Chennai (TN), India.

**Master of Business Administration (M.B.A. – Systems Management),**  
Manonmaniam Sundaranar University, Tirunelveli (TN), India.

**Technical Skills:**

Methodologies	:	RDBMS, Client/Server, n-Tier, OOPS, Cloud.
Web Technologies	:	HTML, CSS, XML, Java, Servlets, JSP, EJB, JavaScript, ASP, Microsoft .NET, PHP.
Languages	:	C, C++, Pascal, FORTRAN, x86 Assembly Language.
Database	:	Oracle DB, Oracle RAC, MS SQL Server, MySQL PostgreSQL, MS Access.
Application Server	:	Oracle AS/Fusion, Web Logic, JBoss.
GUI	:	VS.NET, VB 6.0, VC++, NetBeans, Eclipse.

Operating Systems : UNIX, Linux, Windows Servers, Windows Desktop OS, DOS, Novell Netware, Novell OES, VMware.

**Certifications:**

Red Hat Certified Engineer (RHCE) : Cert. No.807102010805594 (110-016-672)

**Professional Experience:**

**June 2015 – Till Date**

**Procco Financial Services WLL, Bahrain**

**Enterprise Architect**

- Design and implementation of Tier-n Datacenters in different regions for group and client companies.
- Implemented highly efficient datacenters using VMware and Virtualization Technologies for group companies in different regions.
- Disaster Recovery and Business Continuity using VMware DR solutions.
- Planning and maintaining IT infrastructure budgets (CAPEX & OPEX) with strict control and adherence.
- Administration, Maintenance of UNIX Systems including HP-UX, RHEL, CentOS.
- Backup Systems using HP Dataprotector, NetBackup and Veeam.
- SAN/NAS Administration and Maintenance - HP, EMC and NetApp.
- Administration, Maintenance of Oracle Database ,Oracle Application Server, MS SQL and MySQL
- Infrastructure Design, Implementation and Management using Microsoft Active Directory, Microsoft Exchange Clusters and Microsoft File & Print Clusters.
- ITSM implementation and experience, ITIL framework knowledge and following standards.
- Implemented/replaced many enterprise software using Open-source equivalents for open standards and cost saving measures.

**June 2007 – May 2015**

**Procco Financial Services WLL, Bahrain**

**Senior Enterprise Administrator**

- Installation and Maintenance of Red Hat Enterprise Linux, Ubuntu and HP-UX Servers.
- Operating system security hardening for Red Hat Enterprise Linux and HP-UX and Windows Servers.
- Installation, Configuration and Maintenance of Symantec VERITAS Netback Enterprise for Heterogeneous Servers with Bare Metal Restore
- Installation, Configuration and Maintenance of HP Dataprotector.
- Configuration and Maintenance of HP Serviceguard for HP-UX.
- Installation and Maintenance of Oracle 12c/11g/10g/9i Database/Dataguard, MySQL and Oracle 10g Application Server in HP-UX, RHEL and Windows.
- Installation and Maintenance of Virtual Servers using VMWare vSphere and other Virtualization technologies.
- Consolidation of servers /Virtualization of existing physical to virtual servers.
- Installation and Maintenance of Enterprise monitoring tools like Zenoss, MRTG.
- Written many shell scripts for the automating tasks / jobs in Linux and HP-UX from regular maintenance to more advanced tasks.

- SAN/NAS Configuration, Management and Maintenance in EMC VNX Series, HP-Storageworks EVA MSA, NetApp etc. for Linux, HP-UX and Windows and others.
- Installation, Configuration and Maintenance of Microsoft Clusters of Exchange 2010/2007/2003, SQL Server 2012/2008/2005 and MS File & Print Servers.

**November 2003 – May 2007**

**National Computer Services Ltd., Kuwait**

**IT Consultant**

- Enterprise Wide Consultation for Systems and Linux Deployments using Red Hat Enterprise Linux and Novell/SuSE Linux Enterprise Server.
- Highly Available and Enterprise Cluster Solutions including implementation of Red Hat Cluster Suite, HP Serviceguard for Linux.
- Enterprise Server Consolidation using VMware ESX Server.
- SAN Storage configuration in Linux (including Multipathing).
- Implementation and Migration Strategies from Existing Heterogeneous Operating Environment to another Network.
- Messaging and Collaboration Solutions Design and Implementation.
- Oracle Database, Oracle RAC 10g, Oracle Application Server and Oracle Collaboration Suite Implementations and Migrations in Linux.
- Design and Implementation of Identity Management, Single Sign-On and Resource Management solutions.
- Enterprise Solutions for File Server, Print Server Implementations using Novell Open Enterprise Server (Netware/SLES), Red Hat Enterprise Linux/Applications.
- Design and Implementation of Enterprise Linux Desktop Solutions using Novell Linux Desktop and Red Hat Desktop.
- Training Red Hat Authorized Courses and Writing Manuals and Course ware for Enterprise Linux Courses.

**December 2001 – October 2003**

**Kuwait Linux Computer Systems Company, Kuwait.**

**Systems Manager**

- Install, configure and administer Oracle 9i Database, Oracle RAC and Oracle 9i Application Server on Linux.
- Install, configure and administer Failure Resistant, Highly Available (HA) Clustering Environment with Load Balancing using RedHat Advanced Server.
- Install, configure and administer Oracle 9i RAC on HP-Tru64.
- Migration of Windows Environment to Linux Environment.
- Writing web-based applications in PHP & Java using Apache Web server.
- Implemented many Linux systems in heterogeneous networks (using DHCP, DNS and cross platform communication using Samba).
- Wrote many shell scripts for the company/clients for automating job.

**April 2000-July 2001**

**Cray Technologies Pvt. Ltd, India.**  
**Projects Manager, Technical Consultant**

**Project – I**

**Jul 2001**

**Task Master (Resource Management)**

**Project Designer**

This project involves assigning various tasks to various types of user. Users include Project Managers, Programmers, Reviewers, etc. This project contains Project Creation, Task Creation, Task Scheduling, User Profiles Notes and Reports. This is completely a web-enabled and any user belonging to the organization anywhere can access the Home page and direct any tasks. Whenever a person joins the organization, his profile

information is given to the task master administrator. The Administrator updates his profile and enables his user ID in web. In Project Creation Module only, authorized users can access this page to create projects. In Task Creation Module the user can create Tasks through this form. Scheduling the Task Module is used to assign the task to the appropriate persons. Notes screen is used to enter the information against the task assigned. In Profile Module, the administrator is authorized to edit or update the profile information of various users. Reporting module is used for reporting purposes.

**Role**

- Developed the UML, SRS for the Project.
- Designed Project Creation, Task Creation Modules
- Integrated and tested various modules.

***JDK 1.2, Java Servlets, JavaScript, JDBC, JSP, HTML, MS Access, Oracle, Web Logic Server and Java Web Server.***

**Project – II Automation of a Transport Company****Aug 2000-Dec 2000****Projects Designer**

This project is developed for a full automation of a transport company. It contains five modules Front end Administration, Backend Administration, Finance & Accounts, Warehouse maintenance, Truck maintenance and Customer Support Services. Front-end administration deals with customer settlement and billing, warehouse deals with stock movement and stock maintenance. And truck department deals with truck maintenance and engineering maintenance. Back end administration is the backbone of the organization, which interacts, and tracks all the department and schedules stock dispatch and truck schedules, and finally Customer Support deals with customer care.

**Role**

- Analyzed , Designed the project and the Designed the required Database
- Designing and integrating all Forms as per specifications.
- Testing the Application for Bugs and Performance.
- Implementing the system at client's site.

***JDK 1.2, Java Servlets, JavaScript, JDBC, HTML, MS Access, Oracle, Web Logic Server and Java Web Server.***

**Project – III Web Portal - www.parryscorner.net****Apr 2000–Aug 2000****Web Analyst**

This portal hosts various businesses using Server sided scripting is used to access the database and perform various transaction level processing. It hosts various public utility and governmental sites, business directory can be accessed through the interactive modes and various live sites are linked through it. The portal offers many utility services from a single point.

**Role**

- Analyzed and reviewed Functional and Technical Specification with the team
- Coded HTML forms with Server Sided Scripts in HTML forms for entry validation
- Implemented ADO object to connect to the Server database
- Developed Server Sided Scripts containing business logic
- Discussing with the client regarding system details.
- Designing and integrating the pages as per desired specifications.

***ASP, HTML, JavaScript, VB Script, ADO, SQL Server.***

**Project-IV**                      **Repository Merchandise (RM)**                      **Aug 2000–Nov 2000**  
**Hyundai Motors, Madras.**                      **Systems Analyst**

This Project involves two phases. Phase-1 emphasizes on the Receipts of Materials that are shipped from other countries, Phase-2 comprises of dispatch of the materials to local customers as per the market. The project operates on a set of functions to support growth, and provide a baseline system for seeking requirements

Role

- Designing the database and Forms as per specifications.
- Coding forms following the VB standards strictly.
- Integrating all the forms in the module
- Testing the Application for Bugs and Performance.
- Implementing the system at client's site.

***Visual Basic 6.0, COM, DCOM, MTS, SQL Server 7, ADO, ActiveX, Crystal Reports 6.0, Oracle, Windows NT/98.***

**Project V**                      **Chennaiguru.com**                      **Jan'2001- Jul 2001**  
**ChennaiGuru is a horizontal portal**                      **Projects Designer**

Role

- Developing the UML, SRS for the Site.
- Designing the Color Schemes and Layout, UI.
- Studying the Technical Feasibility of the portal.

***JSP, Servlets, JavaScript, MS SQL Server.***

**April 1999-March 2000 CyberVista Systems, India**                      **Systems Analyst**  
**(National Institute of Edutainment & Software Technology (Niest), India)**

**Project-I**                      **Macvista Online Shopping**                      **Apr 1999 – Jul 1999**  
**Macvista Systems, India.**                      **Software Engineer**

This is a shopping cart project, where the users can purchase IT products on-line, JavaScript is used for client and VBScript for server sided scripting. The site is updated daily according to the rates in the market. Through its interactive model, the site is very user friendly and various modules can be reached from any part of the site.

Role

- Developed pages with Server Sided Scripts in HTML forms for entry validation
- Implementation of ADO objects to access the database
- Coded html forms with JavaScript embedded for various validations.
- Developed test cases for Unit testing and maintenance
- Designing and integrating all the pages in the module as per desired specifications.

***ASP, Visual Interdev, HTML, JavaScript, VB Script, ADO, SQL Server 7.***

**Project II**                      **Online Bookstore**                      **Jul 1999 –Aug 1999**  
**Systems Analyst**

The Client is a leading publisher of legal books in Malaysia. The Website is a full feature online store front with features like browsing books by category, searching by category, author or ISBN and Shopping Cart facility

**Role**

- Developed the UML, SRS for the Site.
- Coded html forms with JavaScript embedded for various validations.
- Integrated various modules and tested the complete site.

***JSP, Servlets, JavaScript and MS SQL Server.***

**Project – Web Portal www.occkw.com Aug 1999 –Oct 1999**  
**Orient Consulting Center, Kuwait.**

The Company is a Kuwait Stock Exchange based, which automates the Share trading and gives the site users a wide range of analysis, graphs, statistical details, tips of the stocks. It maintains an archives of the old stock trading. The site has an online stock ticker for live stock quotes.

**Role**

- Designing and Normalizing the Database.
- Validating the modules of the site using JavaScript on the client side and VbScript on the server side.
- Coding the modules using ASP.
- Making the site use both English and Arabic.
- Designing forms for the required situation using VB.

***ASP, JavaScript, VBScript, IIS, MS SQL Server, MS Visual InterDev, Visual Basic.***

**Dec 1998 to Feb 1999 Computhink Computer Company, Systems Programmer**  
**(A Group of Sayed Hamid Behbehani & Sons Co.) , Kuwait.**

**Role**

- Coded Image Viewing and Image Handling Modules of The Paperless Office 2.0 Using VC++.(The Paperless Office is a Desktop program to handle all papers works and organize it in a orderly fashion and maintain everything electronically) .
- Using Lead Tools for Images Modules.
- Translation of The Paper Office using Visual Basic Modules and Macros, for Multi - Lingual Language Support like Arabic, Portuguese etc..

***MS VC++, Lead Tools, VB Modules and Macros.*****Other Projects**

- **System development projects in NIIT Ltd., India.**  
**Invoice Maintenance System using FoxPro.**
- **Data Compression Engine**  
**Image Processing, Speech Processing and Text or Data for B.E. final Year Projects.**  
**University of Madras, India.**  
 Data Compression Engine uses **C** with image processing, speech processing concepts techniques. Using pointers, arrays and direct memory access for bit by bit manipulation using INT (Interrupt) commands and many algorithms of compression.

**Other Qualifications and Interests**

- Ex-RHCX/RHCI – Red Hat Certified Examiner/Instructor up-to RHEL 5 Series.
- Learning and Writing papers about Artificial Intelligence (AI).
- Doing Research in Compression and Space Compression.
- Interested in knowing about Cosmos, star gazer and an amateur astronomer.