# Larry (Lawrence Joseph) Karnis B.Sc., I.S.P.

#### Systems Analyst, Technical Specialist, Infrastructure Consultant, Author

## Synopsis

## I am computer Systems Analyst and Consultant with over 30 years of experience. I have a diverse set of professional skills and experiences including:

* Develop and implement remote lab environment for VMware enterprise technology
* Assist clients design, plan, implement and manage VMware Virtual Desktop Infrastructure
* Developed and published over 11 books VMware vSphere and View material to help people achieve maximum benefit from desktop and server virtualization products
* Help client understand, plan for, deploy, manage, and secure virtual infrastructure based on VMware’s suite of enterprise virtualization products
* Design, deploy, configure and secure RedHat Enterprise Linux systems
* Systems analysis, design and implementation on all major UNIX/Linux platforms
* C programming and product development expert using C on UNIX, Linux and Windows
* UNIX and Linux system management and administration including Best Practices.
* Networking, Internetworking and the Internet, including security.
* System architectures and design including policies, procedure and audit

## Professional ExperienceI have worked as an employee or contract/consulting resource for organizations of all sizes from mid-size to Fortune 500 businesses, crown corporations, government and professional services firms. I have worked as a systems analyst, a technical manager and as a project manager. Some of my past duties have included:

* Consultant for vLab.pro; a professional services firm that specializes in Virtualization with VMware vSphere products. Clients engage me to help them plan, deploy and manage IT infrastructure transitions from physically deployed servers and desktops to virtual systems based on VMware vSphere and VMware View product suites. Design / implement and run a VMware VATC lab service. We provide full remote lab support for VMware authorized classes including vSphere Install, Configure, Manage [V6] / [V5] / [V4.1], Fast Track [V6] / [V5], What’s New [V5] and VMware View [V6] / [V5]. Develop and maintain after market VMware courseware for VMware vSphere server virtualization and VMware View desktop virtualization courses
* Design / implement remote VMware labs for vendor independent VMware training
* Contract consultant / mentor for VMware Corporation. Help clients understand and work with server virtualization technologies. Include planning, deployment, best practices, high availability, clustering and troubleshooting
* Systems analysis, design and implementation services for Global Knowledge and its clients
* Design, deploy, secure and develop best practices for managing UNIX and Linux systems
* Consult to Global Knowledge and its clients in 'Best Practices' for high availability, security and performance
* Implement and secure UNIX/Linux servers including HP, Sun, SCO and RedHat systems
* Provide UNIX oriented consulting services including capacity and performance analysis & tuning, security, and disaster planning and recovery services.
* Install, configure and tune Progress databases for best performance and resource utilization. Various Progress work including, databases recovery of QAD MFG/Pro systems
* Design and implement secure Internet perimeter defenses including firewall services, proxy services, encrypted connections (VPNs), e-mail services (including antispam), etc.
* I designed, programmed and worked as a project leader on a C language software project.
* I have provided UNIX consulting services to a top-three multi-national accounting firm, two premier multi-national UNIX computer companies and two major multi-national systems integrators. I often do work for the clients of these organizations.
* Certified as an expert in general computing before the Tax Court of Canada (2004)
* Provided expert testimony relating to information security, administration and implementation procedures before the College of Nurses of Ontario.

## www.vLab.pro – 2009 to Present

Work as a consultant / mentor specializing in virtualization. I specialize in virtualization planning and implementation. I designed and implemented a remote access server pod and created a detailed Lab manual to clearly show how virtualization can be employed in corporate datacenters. We use this facility as a demo lab environment and also provide remote lab rental services to VMware VATC partners.

## www.ESXLab.com – 2009 to Present

Work as a content creator, consultant and mentor to meet the VMware professional development market. Create after market professional development content for 5 day VMware vSphere 6.0 / 5.5 / 5.1 / 5.0 and View 6.0 / 5.1. Design and implement remote access labs to support remote learning. Help training centers win VMware oriented professional development opportunities.

## VMware Corporation – 2004 to 2008, 2012

I work as a contract resource for VMware Corporation. I work with VMware staff and clients in all phases of Virtual Server planning, deployment and administration. Typical activities include:

* Lead professional development seminars for VMware internal staff on how to support and update vSphere systems from earlier editions
* Lead VMware vSphere training events
* Planning, implementation and guidance on implementing Virtual Infrastructure
* Helping clients make the transition from physical to virtual computing
* Provide guidance on high-available computing including clustering
* Best practices services for load and resource balancing in a Virtual Infrastructure environment.
* Provide troubleshooting and recovery services

## Global Knowledge – 1999 to 2008

I worked as a contract consulting resource for Global Knowledge both in the United States and in Canada. Global Knowledge is a high technology company specializing in imparting Best-Practice and Standard-of-Practice advice to its clients.

My job at Global Knowledge involved:

* Solaris System Administration Level 1 and 2
* UNIX I - Introduction to UNIX and UNIX II - Advanced UNIX for Users
* Introduction to Linux Administration and Advanced Linux System Administration
* Work as a technical editor for Global Knowledge in house developed courseware
* Assist in the identification and positioning of new technology opportunities
* Assist clients in expanding the scope of their practice based on corporate objectives
* Grow the Body of Knowledge (BoK) to include generalizations to the Standard

## Learning Tree

From 1989 through to 2000, I worked as a contract mentor / trainer for Learning Tree International. After completing the instructor qualification process, I took on their entire UNIX/Linux curricula. By the time I left the company, I had completed 104 course events and earned an average instructor rating of 3.78 (out of 4) with an average course rating of 3.65 (out of 4). I led the following events for Learning Tree:

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| * Introduction to C Programming
 | * UNIX WorkStation Administration
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| * Advanced Programming in C
 | * UNIX Server Administration
 |
| * Introduction to Client/Server Systems
 | * Porting Programs from UNIX to Windows NT
 |
| * Hands On Client/Server
 | * UNIX/Windows NT 4 Integration
 |
| * UNIX Tools and Utilities
 | * UNIX Security
 |
| * Korn Shell Programming
 | * UNIX Network Programming
 |
| * Apache Web Server (course author)
 | * Linux System Administration
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### University of Toronto

I worked as a Teaching Assistant and Continuing Education instructor at U of T, where I taught C programming and UNIX system administration.

## Expert Status

I have provided assistance in a number of legal matters involving Information Technology.

**College of Nurses of Ontario (CNO)**

I have been recognized by the CNO on multiple occasions as an expert in the field of general computer knowledge. Have given expert testimony (latest, Dec 2014) in the field of general computer knowledge on matters relating to electronic evidence, computer system security and computer administration.

**Federal Court of Appeal for the Tax Court of Canada**

I was recognized by Justice Archambault of The Federal Court of Appeal for the Tax Court of Canada as an expert in general computer knowledge (2004) where I gave expert testimony regarding a computer software product’s capabilities and technical potential.

**Canadian Information Processing Society / Toronto Chapter**

Recognized and acted as a subject matter expert in Linux and Open Source software by the Canadian Information Processing Society (CIPS), Toronto chapter (2001-2004). Act as CIPS liaison to industry and press for Linux and Open Source information.

Acting as an expert in general computer knowledge, I have assisted in matters involving:

* Security and operational review of a hospital records management system. Helped legal defense refute patient record access log evidence.
* Provide expert advice and testimony (by way of *Will Say* documents) related to a computer security complaint
* The loss of pharmaceuticals through an automated dispensing system.
* Privacy issues involving the use of a hospital computer system.
* Technology related to audio and video surveillance.
* Technical assessment of a product’s merits and capabilities

## Publications

I either authored and/or technical edited books on UNIX, Linux, Solaris and C Programming:

* *PC-STAR User's Manual*, an Investor Relations tool for the Toronto Stock Exchange.
* *Applied C*, Van Nostrand Reinhold Company, 1984. Contributing author and tech editor.
* Authored: *B-Tree, a Programmers Tool Kit for Keyed Record Management*. This product was incorporated into applications from Symantec and MicroFocus.
* *Migrating From UNIX to Windows NT*. Learning Tree International, 1997. Author.
* *UNIX/Windows NT 4 Integration Module 2*. A CBT CD published by Learning Tree (1997).
* *Apache Web Server*. Author. Published by Learning (1999).
* *Advanced Solaris Administration*. Author. Published by Global Knowledge's (2000).
* *Solaris Administration*. Technical editor. Published by Global Knowledge's (2000).
* *RedHat Certified Engineer Linux Study Guide*. Syngress Osborne McGraw Hill 2001. Contributing author and Technical Editor.
* *HackProof Linux*. Syngress Osborne McGraw Hill, 2001. Technical Editor.

## VMware Specific Publications

I also authored the following books on VMware’s enterprise class virtualization products:

1. *VMware vSphere 6 Optimize and Troubleshoot.* August 2016
2. *VMware vSphere 6.0 Boot Camp.* February, 2016
3. *VMware vSphere 6.0 with ESXi and vCenter,* April 2015

*Desktop Virtualization with VMware View 6.0*, July 2015

1. *VMware vSphere 5.5 Advanced Administration.* June 2014
2. *VMware vSphere 5.5 Boot Camp.* February, 2014
3. *VMware vSphere 5.5 with ESXi and vCenter,* November 2013
4. *VMware vSphere 5.1 with ESXi and vCenter*, October 2012
5. *VMware vSphere 5.1 Boot Camp*, December 2012
6. *VMware vSphere 5.1 Advanced Administration*, August 2013

*Desktop Virtualization with VMware View 5.1*, July 2012

*VMware vSphere 5 Boot Camp*, October 2011

*VMware vSphere 5 Advanced Administration*, October 2011

*VMware vSphere 5 with ESXi and vCenter*, October 2011

*VMware vSphere 4.1 Boot Camp*, August 2010

*VMware vSphere 4.1 Advanced Administration*, August 2010

*VMware vSphere 4.1 with ESXi and vCenter*, August 2010

*VMware vSphere 4 with ESXi and vCenter*, August 2009

## Formal Education

*Bachelor of Science*, University of Toronto, 1984. Computer Science major, Mathematical Science minor.

## Continuing Education

*VMware vSphere Install, Configure, Manage [v6],* October 2016

*VMware vSphere 5.1 Support Readiness Training,* May, 2012

*VMware Virtual Infrastructure 3.5 –* Install & Configure. January 2008.

*VMware Virtual Infrastructure 3 –* Install & Configure. July 2006.

*VMware ESX 2.1 – Administration and Configuration*. October 2005.

*VMware ESX 2.0 – Administration and Configuration*. October 2004.

*RedHat 300/302* - RHCE Advanced Administration and RHCE Exam prep course. May 2001.

VMware ESX-1 – Introduction to Server Virtualization with VMware ESX. October, 2004

VMware ESX-2 – Advanced Server Virtualization with VMware ESX. October, 2004

## Professional Associations

Member, Canadian Information Processing Society (1992-2007).

*Information Systems Professional* (I.S.P.). Designation granted by the Canadian Information Processing Society (chartered by the Government of the Province of Ontario), April 1992, retired 2007.

## Vendor Certification Details

I have earned the following vendor designations:

* **VMware Certified Associate (VCA on vSphere 5.1).** October, 2013**.**
* **VMware Certified Professional (VCP on vSphere 5),** February 2012
* **VMware Certified Professional (VCP on vSphere 4),** December 2009
* **VMware Certified Professional (VCP on ESX 3.0/3.5),** September, 2006.
* **VMware Certified Professional (VCP on ESX 2.1),** February, 2005.
* **VMware Certified Instructor (VCI),** November, 2004. Retired January 2009
* **VMware Certified Professional (VCP on ESX 2.0),** October, 2004.
* **RedHat Certified Examiner (RHCX),** January, 2004. Was certified to deliver both the RHCT and RHCE exams.
* **RedHat Certified Instructor (RHCI),** January, 2004. Was certified to teach all RedHat classes up to and including RH300.
* **Linux Professional Institute Certified** - Level 1. (LPIC-1), November, 2003.
* **RedHat Certified Engineer** (RHCE), May 2000. RHCE Certificate Number 807001619803047. (Scored 96.7%)
* **Tarantella Advanced Certified Engineer** (ACE), October 2000.
* **SCO Master Advanced Certified Engineer** (ACE), SCO UNIXWare 7, May 2000.
* **SCO Master Advanced Certified Engineer**, SCO OpenServer 5, January 2000.
* **HP Certified Information Technology Professional**, Hewlett Packard, May 1999.
* **UNIX Programming Certified Professional**, Learning Tree International. Nov, 1998.
* **UNIX Systems Certified Professional**, Learning Tree International. May 1998.
* **SCO Advanced Certified Engineer***,* SCO UNIXWare 2.1, May 1998
* **SCO Advanced Certified Engineer**, SCO OpenServer 5, January 1998

# Contact Information

**Larry Karnis**, B.Sc., I.S.P. (ret), VCP 2,3,4,5, RHCE, RHCI (ret), RHCX (ret), SCO ACE

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