



Colegio de San Juan de Letran
Dominican Avenue, Abucay, Bataan
Library and Media Services

RESEARCH GUIDE: SYSTEM ADMINISTRATION AND MAINTENANCE

TABLE OF CONTENTS

I. Scope Note

II. Search Aids

III. Information Resources

A. Library Resources

a. E-Journals

b. E-Theses

B. Open Access

a. Free E-Books

b. Free E-Journals

c. Free E-Theses

C. Professional Organizations

D. Other Related Web Portals

E. Related Research Guides

IV. Tutorials

RESEARCH GUIDES

SYSTEM ADMINISTRATION AND MAINTENANCE

I. SCOPE NOTE

System administration refers to the management of one or more hardware and software systems. [Techopedia. https://www.techopedia.com/definition/22441/system-administration](https://www.techopedia.com/definition/22441/system-administration)

II. SEARCH AIDS (BT: Broader Term, RT: Related Term, NT: Narrow Term)

BT:

- System Administration
- System Maintenance

RT:

- Computer System
- Distributed Computer System
- Database Administrator
- Project Manager
- Management Information System
- Distributed Computing System
- Database Software
- Data Modeling
- Database Server
- Structured Query Language
- Database Engine Tuning Adviser
- Microsoft Certified Database Administrator

NT:

- Information Technology and Software
- Comma - Separated Values File
- Hardware Assembly
- Troubleshooting
- OS Installation
- Booting
- Shutting Down
- WANs
- LANs
- Security

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

➤ E-JOURNALS

- Management Science.
https://search.proquest.com/central/publication/publications_40738
- Online Information Review.
https://search.proquest.com/central/publication/publications_27163
- Journal of Science Education and Technology.
https://search.proquest.com/central/publication/publications_2043721
- Journal of Technology.
https://search.proquest.com/central/publication/publications_38628
- Journal of Information System Education.
https://search.proquest.com/central/publication/publications_25848
- IUP Journal of Computer Sciences.
https://search.proquest.com/central/publication/publications_2029993
- Journal System Integration.
https://search.proquest.com/central/publication/publications_2032453
- Computer Technology Journal.
https://search.proquest.com/publication/publications_38406

➤ E-THESES

- Havens, R. (2020). Log management best practices for better IT governance: A Delphi study of log management systems administrators and managers (Order No. 28261282). Available from ProQuest Central. (2476556481). Retrieved from <https://www.proquest.com/dissertations-theses/log-management-best-practices-better-governance/docview/2476556481/se-2?accountid=190548>
- Wang, B. (2020). Rethinking existing cybersecurity frameworks: How to incentivise companies to better defend against cyber threats (Order No. 28087173). Available from ProQuest Central. (2447994765). Retrieved from <https://www.proquest.com/dissertations-theses/rethinking-existing-cybersecurity-frameworks-how/docview/2447994765/se-2?accountid=190548>
- Bartlett, T. (2020). Privacy and security management practices of emerging technologies: Internet of things (Order No. 28000028). Available from ProQuest Central. (2461614134). Retrieved from <https://www.proquest.com/dissertations-theses/privacy-security-management-practices-emerging/docview/2461614134/se-2?accountid=190548>
- Ofori-Duodu, M. (2019). Exploring data security management strategies for preventing data breaches (Order No. 27671992). Available from ProQuest Central. (2339172794). Retrieved from <https://www.proquest.com/dissertations-theses/exploring-data-security-management-strategies/docview/2339172794/se-2?accountid=190548>
- Montz, B. (2019). A novel virtual reality-based system for remote environmental monitoring and control using an activity modulated wireless sensor network (Order No. 13904364). Available from ProQuest Central. (2288107264). Retrieved from <https://www.proquest.com/dissertations-theses/novel-virtual-reality-based-system-remote/docview/2288107264/se-2?accountid=190548>
- Brookes, S. (2018). Mitigating privilege escalation (Order No. 10822683). Available from ProQuest Central. (2056555398). Retrieved from <https://www.proquest.com/dissertations-theses/mitigating-privilege-escalation/docview/2056555398/se-2?accountid=190548>

- Freet, D. N. (2017). A security visualization analysis methodology for improving network intrusion detection efficiency (Order No. 10261868). Available from ProQuest Central. (1916581901). Retrieved from <https://www.proquest.com/dissertations-theses/security-visualization-analysis-methodology/docview/1916581901/se-2?accountid=190548>
- Velasquez, N. F. (2008). An examination of work practices and tool use in high risk environments (Order No. 3316255). Available from ProQuest Central. (219999472). Retrieved from <https://www.proquest.com/dissertations-theses/examination-work-practices-tool-use-high-risk/docview/219999472/se-2?accountid=190548>
- Pang, G. (2015). Scalable transactions for scalable distributed database systems (OrderNo. 3733329). Available from ProQuest Central. (1730862919). Retrieved from <https://search.proquest.com/docview/1730862919?accountid=190548>
- Chen, T. (2015). Improving the quality of large-scale database-centric software systems by analyzing database access code. Piscataway: The Institute of Electrical and Electronics Engineers, Inc. (IEEE). Retrieved from <https://search.proquest.com/docview/1690358904?accountid=190548>
- Susarapu, S. R. (2012). Aligning security and usability objectives for computer based information systems (Order No. 3542940). Available from ProQuest Central. (1170997543). Retrieved from <https://search.proquest.com/docview/1170997543?accountid=190548>
- Johansson, J. M., March, S. T., & Naumann, J. D. (2003). Modeling network latency and parallel processing in distributed database design. Decision Sciences, 34(4), 677-706. Retrieved from <https://search.proquest.com/docview/198110627?accountid=190548>
- Korzyk, A. D., Sr. (2002). A conceptual design model for integrative information system security (Order No. 3066666). Available from ProQuest Central. (276357323). Retrieved from <https://search.proquest.com/docview/276357323?accountid=190548>
- Shi, H. (1998). Database management system modeling for construction project cost and time data process (Order No. 1393567). Available from ProQuest Central. (304439737). Retrieved from <https://search.proquest.com/docview/304439737?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Limoncelli, Thomas A., Hogan, Christina J., Chalup, Strata R. (2017). The Practice of System and Network Administration, Volume 1 (3rd ed.). Boston: Addison-Wesley. <https://www.pdfdrive.com/the-practice-of-system-and-network-administration-volume-1-devops-and-other-best-practices-for-enterprise-it-e157098292.html>
- Bergstra, Jan, Burgess, Mark (Eds.) (2007). Handbook of Network and System Administration. Amsterdam: Elsevier. <https://www.pdfdrive.com/handbook-of-network-and-system-administration-d185718212.html>
- Montoro, Arturo, (2012). Linux Mint System Administrator's Beginner's Guide A practical guide to learn basic concepts, techniques, and tools to become a Linux Mint system administrator. U.K.: PACKT Publishing. <https://www.pdfdrive.com/linux-mint-system-administrators-a-practical-guide-to-learn-basic-concepts-techniques-and-tools-to-become-a-linux-mint-system-administrator-d166936036.html>
- Cato, William W. and Mobley, Keith. (2001). Computer-Managed Maintenance Systems:A

Step-by-Step Guide to Effective Management of Maintenance, Labor, and Inventory. U.S.A: Elsevier Science. <https://www.pdfdrive.com/computer-managed-maintenance-systems-second-edition-a-step-by-step-guide-to-effective-management-of-maintenance-labor-and-inventory-d157123149.html>

➤ FREE E-JOURNALS

- Systems Open Access Journal. <https://www.mdpi.com/journal/systems>
- International Journal of Database Management System. <http://airccse.org/journal/ijdms/index.html>
- Journal of Databased Management. <https://www.igi-global.com/journal/journal-database-management/1072>

➤ FREE E-THESES

- Wu, B. (2021). Assessing and improving security awareness and concerns in teleworking. (Thesis). Purdue University. Retrieved from <https://doi.org/10.25394/pgs.14502837.v1>
- Elwing-Malmfelt, L. (2021). Semi-automated hardening of networks based on security classifications. (Thesis). Blekinge Institute of Technology. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:bth-21793>
- Charkhgard, P. (2020). The network maintenance problem. (Doctoral Dissertation). University of Newcastle. Retrieved from <http://hdl.handle.net/1959.13/1416256>
- Zhang, C. (2020). Low-cost wireless sensor network time synchronisation with energy conservation. (Doctoral Dissertation). Loughborough University. Retrieved from <http://hdl.handle.net/10.26174/thesis.lboro.14479167.v1>
- Akbari, I. (2018). Enabling self organisation for future cellular networks. (Doctoral Dissertation). University of Surrey. Retrieved from <https://doi.org/10.15126/thesis.00849661>; <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.759556>
- Tuisku, K. (2016). Network management system dimensioning with performance data. (Masters Thesis). Tampere University. Retrieved from <https://trepo.tuni.fi/handle/10024/99448>
- Zhang, Y. (2016). Data distribution and task scheduling for distributed computing of all-to-all comparison problems. (Thesis). Queensland University of Technology. Retrieved from <http://eprints.qut.edu.au/92604/>
- Ricksten, G. (2020). The role of digitalized product information in maintenance services of complex products or systems. (Thesis). Karlstad University. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:kau:diva-78599>
- Ollakka, I. (. (2013). CERN library Thin Client System modernization. (Masters Thesis). University of Oulu. Retrieved from <http://urn.fi/URN:NBN:fi:oulu-201305131249>
- Karban, D. (2019). Systém pro řízení virtuálních serverů: System for Virtual Server Administration. (Thesis). Brno University of Technology. Retrieved from <http://hdl.handle.net/11012/54596>
- Simmonds, Daphne Marie. (2015). Information Technology and Sustainability: An Empirical Study of the Value of the Building Automation System. <https://www.proquest.com/dissertations-theses/information-technology-sustainability->

empirical/docview/1722048376/se-2?accountid=190548

- Lane, Jo Ann. (2009). Impacts of system of system management strategies on system of system capability engineering effort. University of Southern California. <https://www.proquest.com/dissertations-theses/impacts-system-management-strategies-on/docview/304996503/se-2?accountid=190548>

C. PROFESSIONAL ORGANIZATIONS

- Computer Professional for Social Responsibility. <http://cpsr.org/>
- Association of Software Professionals. <https://asp-software.org/www/>
- Association for Computing Machinery. <https://www.acm.org/>
- Association for Information Technology Professionals. <https://www.baylor.edu/business/mis/index.php?id=92998>
- Association of Independent Information Professionals (AIIP). <https://www.aiip.org/>
- IEEE Computer Society. <https://www.computer.org/membership>

D. OTHER RELATED WEB PORTALS

- InformationWeek News Connects The Business Technology Community. <https://www.informationweek.com/>
- Info World. <https://www.infoworld.com/>
- Computer Weekly. <https://www.computerweekly.com/news>
- Fingent. <https://www.fingent.com/blog/>
- Tech Republic. <https://www.techrepublic.com/>
- Reddit. <https://www.reddit.com/r/InformationTechnology/>
- Elligense. <https://medium.com/elligense-team>
- Tech Community. <https://techcommunity.microsoft.com/t5/itops-talk/ct-p/ITOpsTalk>

E. RELATED RESEARCH GUIDES

- Fordham University Libraries Lib Guides. <https://fordham.libguides.com/ElectronicResources/OpenAccess>
- Dalhousie University Research Guide. <https://dal.ca.libguides.com/c.php?g=257042&p=1716320>
- Golden gate University Research Guide. <https://ggu.libguides.com/c.php?g=106861&p=693879>
- Mississippi State University Research Guide. <https://guides.library.msstate.edu/c.php?g=578108&p=3987898>
- University of Texas at El Paso Research Guide. <https://libguides.utep.edu/c.php?g=430080&p=2932358>

IV. TUTORIALS

- Windows 10 Maintenance Tasks. <https://www.youtube.com/watch?v=muhFxsTTng>
- Basic PC Maintenance. <https://www.youtube.com/watch?v=J07rd4nMXeo>
- Software Troubleshooting Tools. Part 3. Network Management and Administration. <https://www.youtube.com/watch?v=7xZNDBoJ3og>
- Open Source Remote Management. <https://www.youtube.com/watch?v=uc5NjIEIINO>
- Virtualization. <https://www.youtube.com/watch?v=JpuckrJj5MQ>

- Backup and Recovery Introduction. https://www.youtube.com/watch?v=y_FVGc0S7RM
- Network Security Tutorial Course for Beginners. <https://www.youtube.com/watch?v=gXEXfYaxlDs>
- Intellipaat. <https://intellipaat.com/blog/>
- Galido Networks. <https://galido.net/blog/best-freelancing-websites-to-get-remote-work-in-2020/>
- ZD Net. <https://www.zdnet.com/>
- Paessler. <https://blog.paessler.com/>
- Value Coders. <https://www.valuecoders.com/blog/>

Prepared by:

Mr. Marvin A. Milla

Layout

mamilla@letranbataan.edu.ph

Ms. Maria Rosiel C. Ordenes

Subject Librarian

mrcordenes@letranbataan.edu.ph

Asst. Prof. Norady Mercado Pere

Chief Librarian

ndmercado@letranbataan.edu.ph

For more inquiries kindly, e-mail us at library@letranbataan.edu.ph