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| **Minor Award Name** | Virtualisation Support |
| **Minor Award Code** | 5N2434 |
| **Level** | 5 |

**Suggested resources to support delivery:**

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| --- | --- | --- | --- | --- |
| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| History of Computer Virtualisation Technology | Online Articles | These online articles describe the initiation of virtualisation in the 1960’s in IBM and its advances through the decades. They describe how hardware, application and software virtualisation came about and when. | Everything VM: Sean P. Conroy  Network World: Jon Brodkin  VM Blog: Joseph Hand | <http://www.everythingvm.com/content/history-virtualization>  <http://www.networkworld.com/article/2254433/virtualization/with-long-history-of-virtualization-behind-it--ibm-looks-to-the-future.html>  [http://vmblog.com/archive/2012/02/02/virtualization-history-has-an-impact-on-windows-server-backup.aspx#.VjJuATZOfIU](#.VjJuATZOfIU) |
| Virtualisation Technologies | Book  Weblink  Weblink  Online Resource  Online Article  Online Article  Online Article  White Paper | The book “Virtualization for Dummies”  describes server, hardware, desktop/client and storage virtualisation as well as paravirtualisation. It also describes how to implement various virtual technologies.  The book “Virtualization the Complete Cornerstone” describes various virtualisation technologies and compares against them.  “Xen Virtualisation Essentials” provides a chapter describing para, full and hardware virtualization techniques.  This weblink provides alot of resources to all things virutalisation including hardware, application and server virtualisation.  Server virtualisation, its uses and advantages are described here. Also the difference between server and desktop virtualisation is referred to.  How server virutalisation works is described here.  Storage virtualisation and its structures are discussed in this article.  Desktop virtualistion is discussed.  Server virtualisation as well as para, full and OS virtualisation are discussed.  Vmware's full, para and hardware assisted virtualisation are described in this document to allow users to fully understand the differences between the three. | Author: Bernard Golden and Published by: Wiley&Sons  Author: Ivanka Menken and Published by Emereo Pty Ltd.  Author: Neil Smith  Author: Various Authors  Author: V. Beal  Author: J. Strickland  Author: R. Kay  Author: E. Knorr  Author: J. Strickland  Author: VMware | <http://www.amazon.com/Virtualization-For-Dummies-Bernard-Golden/dp/0470148314>  <https://books.google.ie/books/about/Virtualization_The_Complete_Cornerstone.html?id=pUYKqC6OB0MC&redir_esc=y>  <http://www.virtuatopia.com/index.php/Xen_Virtualization_Essentials>  <http://whatis.techtarget.com/glossary/Virtualization>  <http://www.webopedia.com/TERM/S/server_virtualization.html>  <http://computer.howstuffworks.com/server-virtualization.htm>  <http://www.computerworld.com/article/2551439/data-center/storage-virtualization.html>  <http://www.infoworld.com/article/2627220/vdi/what-desktop-virtualization-really-means.html>  <http://computer.howstuffworks.com/server-virtualization2.htm>  <https://www.vmware.com/files/pdf/VMware_paravirtualization.pdf> |
| Virtualisation Advantages and disadvantages | Book  Online Articles | The book “Virtualization the Complete Cornerstone” describes the benefits of different virtualisation technologies and how they fit into the big picture of the data centre.  Various articles exist online that discuss various advantages and disadvantages associated with virtualisation. Some of these are listed here. | Author: Ivanka Menken and Published by Emereo Pty Ltd.  Author: Paul Estcott  Author: Patti Mc Kenna  Author: Sara Angeles | <https://books.google.ie/books/about/Virtualization_The_Complete_Cornerstone.html?id=pUYKqC6OB0MC&redir_esc=y>  <http://techattitude.com/windows-tips-and-tricks/the-advantages-and-disadvantages-of-virtualisation-explained/>  <http://computer.howstuffworks.com/how-virtual-computing-works2.htm>  <http://www.businessnewsdaily.com/6014-pros-cons-virtualization.html> |
| Trends in Virtualisation | Book  White Paper  White Paper  Online Article | The book “Virtualization for Dummies” discusses the future of virtualisation and where it is used in industry.  This White Paper from Dell Wyse discusses the role of Cloud computing and virtualisation in education.  This White Paper from IBM discusses the role of Virtualisation in education.  This online article describes the benefits of using virtualisation in education. | Author: Bernard Golden and Published by: Wiley&Sons  Author: Dell Wyse  Author: IBM  Author: The Research Pedia | <http://www.amazon.com/Virtualization-For-Dummies-Bernard-Golden/dp/0470148314>  <https://www.techdata.com/wyse/files/Wyse-Role%20of%20Cloud%20Computing%20and%20Virtualization%20in%20Education%20Whitepaper.pdf>  <http://www-07.ibm.com/solutions/in/education/download/Virtualization%20in%20Education.pdf>  <http://www.theresearchpedia.com/research-articles/benefits-of-virtualization-for-education-industry> |
| Construction of virtualised components | Books  Online Resource | All of the resources listed in this section describe various virtualisation implementations such as servers and virtual machines. Resource management and monitoring is also discussed.  This article describes 10 difference management solutions for virtualisation management. It also links to other resources. | Author: Bernard Golden and Published by: Wiley&Sons  Author: Ivanka Menken and Published by Emereo Pty Ltd.  Author: E. Siebert | <http://www.amazon.com/Virtualization-For-Dummies-Bernard-Golden/dp/0470148314>  <https://books.google.ie/books/about/Virtualization_The_Complete_Cornerstone.html?id=pUYKqC6OB0MC&redir_esc=y>  <http://searchservervirtualization.techtarget.com/tip/Top-10-virtualization-management-tools> |

**Useful Organisations:**

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| **Name** | **Contact Information** |
| VMware | <https://communities.vmware.com/community/vmtn/> |
| VMware | <https://www.vmware.com/virtualization/overview.html> |
| Oracle’s Virtual Box | <https://www.virtualbox.org/> |
| Xen Server | <http://xenserver.org/> |
| Webopedia | <http://www.webopedia.com/TERM/V/virtualization.html> |
| Virtualization Practice | <https://www.virtualizationpractice.com/> |
| **MOOCs (Massive Online Open Courses)** |  |
| Free access to online courses  Search regularly for new courses and new start dates | https://www.mooc-list.com/ |