

PROJECT PROGRESS REPORT



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Coláiste na hOllscoile Corcaigh, Éire
University College Cork, Ireland

BENEFITS FOR SME'S USING VIRTUALIZATION V'S TRADITIONAL METHODS

SHANE DORGAN OCT.2016

Module: Computer Mediated Communications



PROJECT PROGRESS OVERVIEW



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- LITERATURE REVIEW OF PRINCIPALS & GUIDELINES
- COST ANALYSIS OF TRADITIONAL V'S VIRTUALISED FRAMEWORK
- DISASTER RECOVERY TRADITIONAL V'S VIRTUALISATION
- INVESTIGATION INTO METHODS AND TECHNIQUES TO IMPLEMENT VIRTUALISATION INTO SME



PROBLEM DEFINITION



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TO COMPARE THE DIFFERENCES BETWEEN USING TRADITIONAL METHODS AGAINST VIRTUALIZATION AND THE BENEFITS AND COST SAVINGS THAT VIRTUALIZATION CAN BRING TO AN SME'S TO ALLOW FOR MORE EFFICIENCY IN THE WORK PLACE.

Traditional Architecture



Virtual Architecture

WHY VIRTUALIZE YOUR SERVER?

- » LESS POWER USED
- » LESS LICENSES BOUGHT
- » LESS HARDWARE PURCHASED
- » LESS STORAGE SPACE REQUIRED

PROJECT OBJECTIVES

AREAS TO INVESTIGATE

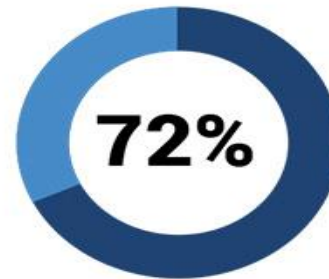


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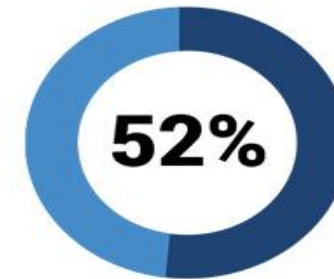
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- SERVER INEFFICIENCY
- DISASTER RECOVERY
- BUSINESS CONTINUITY
- COST SAVINGS

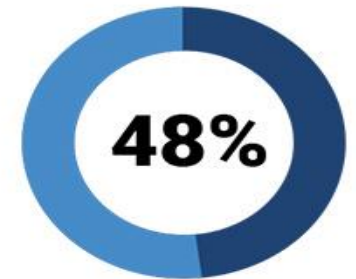
Traditional Benefits of Virtualization



Improve server utilization



Reduce or contain number of servers



Enhance security



Boost availability and up-time



Improve server and application management



Enable better data backup and protection

Source: <http://www.vmware.com>

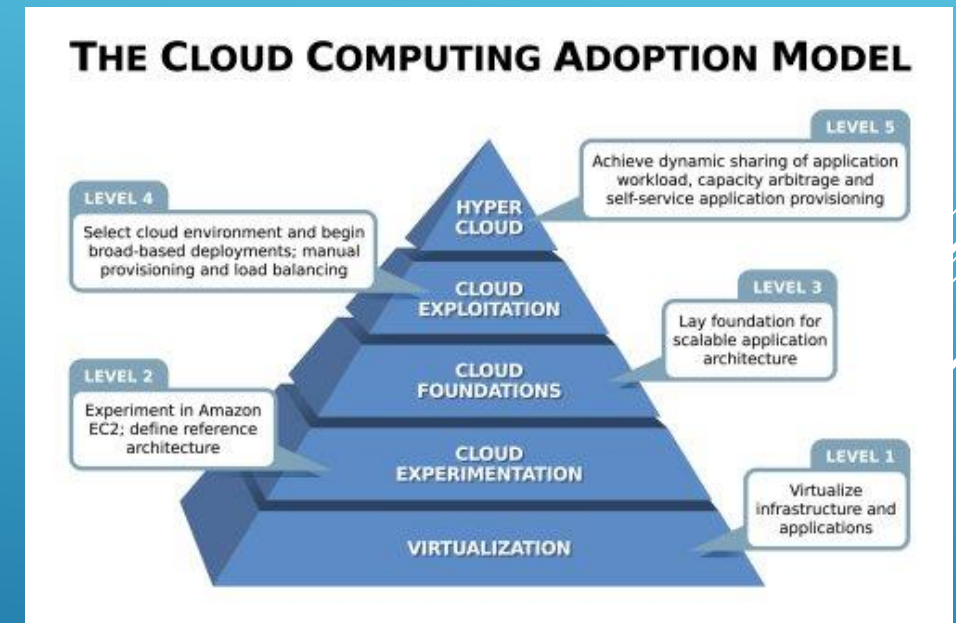
FUTURE STEPS



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- TO IMPLEMENT VIRTUALISATION USING CLOUD COMPUTING
- TO CARRY OUT SURVEYS ON PEOPLES ATTITUDE TO CHANGING THERE PERCEPTION TO VIRTUALIZATION
- TO IMPLEMENT ON A SMALL SCALE PROJECT USING VIRTUALIZATION AND THE BENEFITS THAT IT CONTRIBUTES TO SME'S FROM A PRACTICAL VIEW POINT



OUTLINE OF FINAL REPORT STRUCTURE



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Figure 1

Benefits-for-SME's-Using-Virtualization-v's-Traditional-Methods

Shane Dorgan | CE6014 Computer Mediated Construction | 2016
STUDENT NUMBER: 11253755

ABSTRACT

To compare the differences between using Traditional against Virtualization and the benefits and savings that Virtualization can bring to an SME's to allow for more efficiency in the work place.

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Page Break

1.1 Scope

investigate the benefits of virtualization for small-SME's-V's-the traditional Methods
using IT infrastructure and to analysis the following key areas

- Cost Saving
- Disaster-Recovery
- Efficiency-Increase
- Continuity

Virtualization can be traced back as far as the late 1960s as early as the 1950s when multiple operating systems on the same computer were commonly run many applications and even operating systems on the same computer in an environment called a virtual machine which led to Virtualization.

Virtual operating systems on a single processor machine were then conceived with virtualization in mind but not until the late 1990s by Stanford University researchers in a paper titled "Virtualizing the x86 architecture" that the need for virtualization at a low cost was highlighted.

PAGE 1

PAGE 3

Does Virtualization work?



We will look at full virtualization as this type is the most common.

Virtual operating system e.g. (windows 7) can be used on a real machine. Virtualization software itself can be under-utilized for its full capacity. Virtualization fans still run at same speed as real machine (Real Machine) is used for that particular machine.

Benefits-for-SME's-Using-Virtualization-v's-Traditional-Methods



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University College Cork, Ireland

FEEDBACK ,COMMENTS OR QUESTIONS ?

E-MAIL : 115221715@UMAIL.UCC.IE

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