



# VReady Assessment Report

Prepared for:

Acme Inc.

Prepared by:

Lanamark Inc.

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## Executive Summary

Acme Inc. is considering an investment in virtual infrastructure to

- Reduce IT infrastructure expenses associated with
  - Administration and management
  - Power and cooling
  - Physical space
- Increase availability and business continuity of desktops and servers.
- Make IT infrastructure more efficient by running it at optimal service levels and utilization.
- Improve IT infrastructure agility and manageability, making it more responsive to business needs.

Lanamark VReady is a free platform-agnostic virtualization readiness assessment service designed to help Acme Inc. take the first step towards virtualization by assessing physical desktops and servers. This report details the findings of the *VReady* assessment.

## Next Steps

Acme Inc. should review the findings in this report and consider leveraging data already collected during *VReady* for the following *VAccelerate* analysis and design services intended to accelerate desktop and server virtualization projects:

### **VAccelerate Desktops**

Desktop virtualization planning service delivered by a Lanamark Solution Provider who can help you analyze existing desktops and design an optimal virtual desktop infrastructure solution using the Lanamark Suite. [Learn more](#)

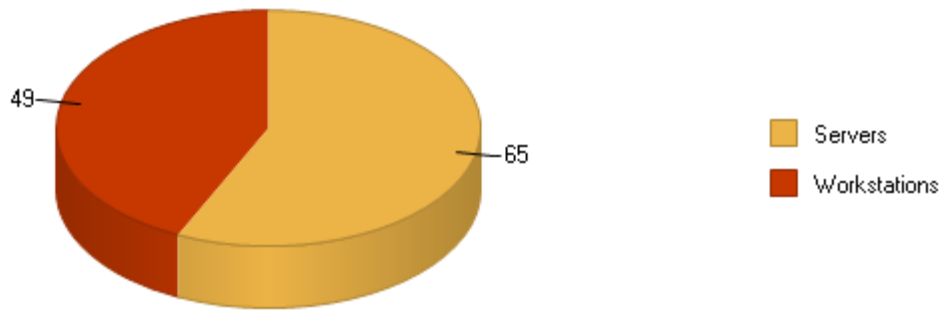
### **VAccelerate Servers**

Server virtualization planning service delivered by a Lanamark Solution Provider who can help you analyze existing servers and design an optimal virtual infrastructure. [Learn more](#)

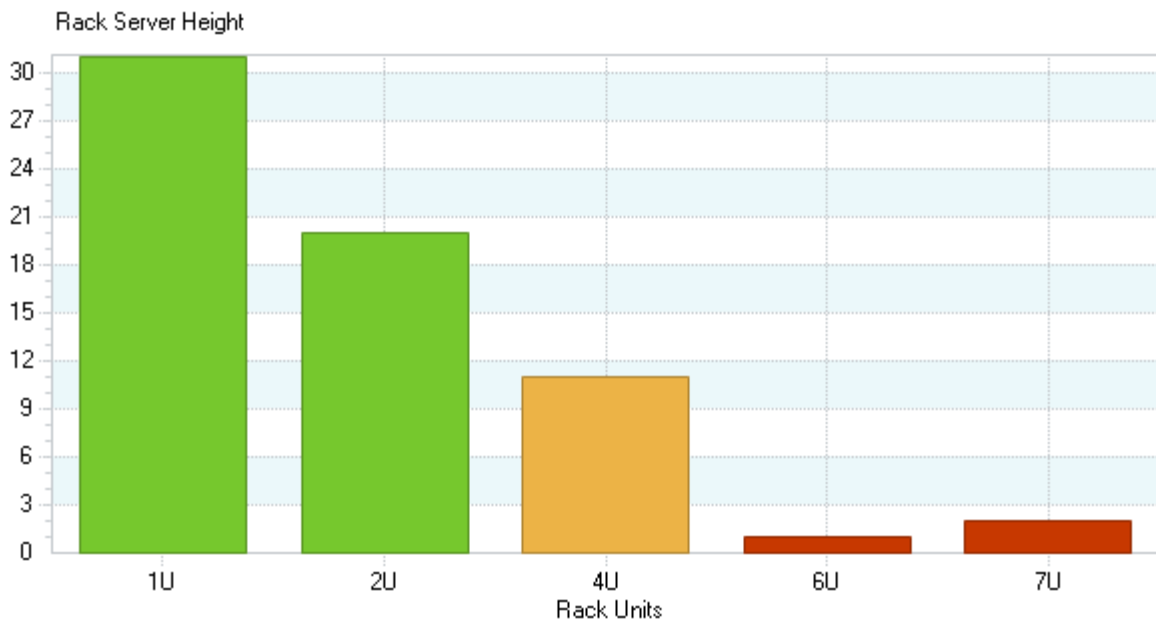
# IT Infrastructure Summary

Here is the number of physical servers and workstations in the Acme Inc. IT environment. Workstations include both desktops and laptops.

Servers vs. Workstations



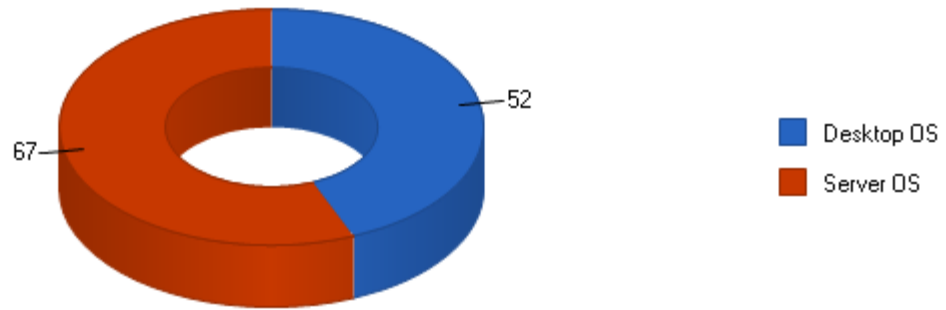
Here is the rack unit height distribution for rack servers.



# Workload Summary

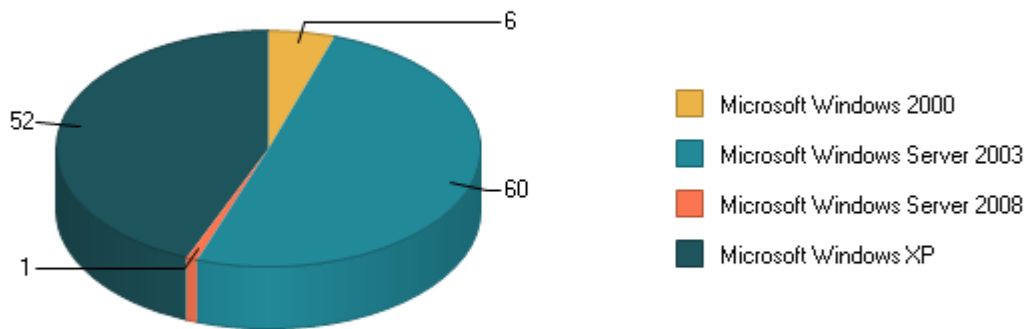
Here is the breakdown of desktop versus server operating systems.

Desktop vs. Server Operating Systems



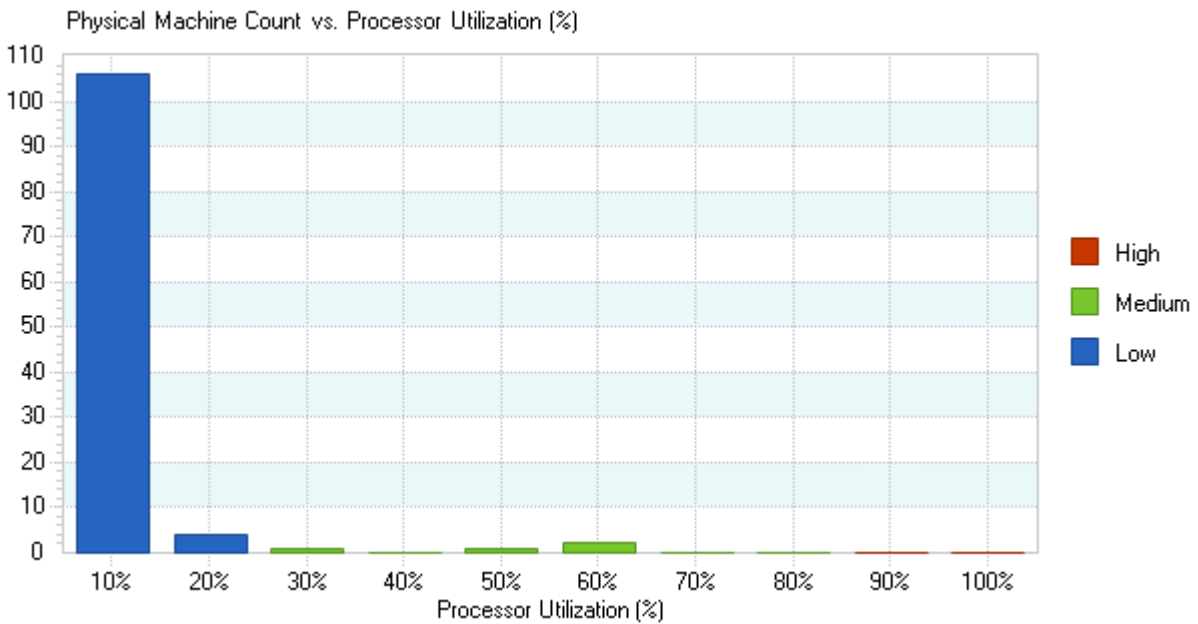
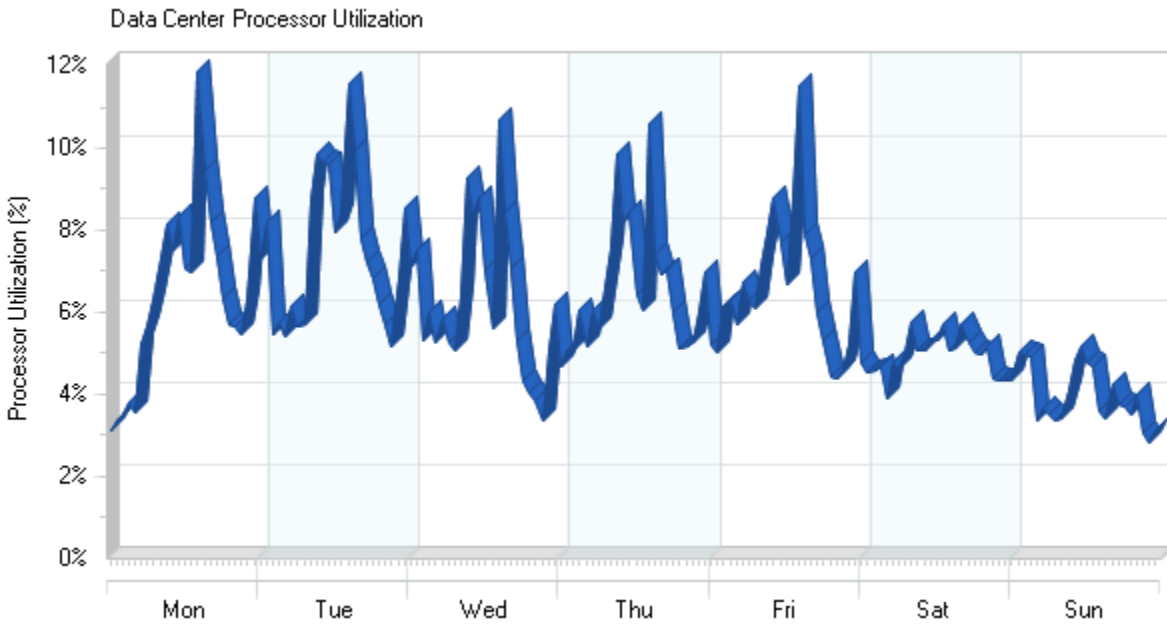
Here is the distribution of workload operating systems. Most hardware virtualization platforms support Microsoft Windows 2000 or higher. VMware ESX has the broadest platform support, followed by Citrix XenServer and other Xen-based platforms. Microsoft Hyper-V support is currently limited to Microsoft Windows and Novell SUSE Linux Enterprise Server 10.

Distribution of Operating Systems



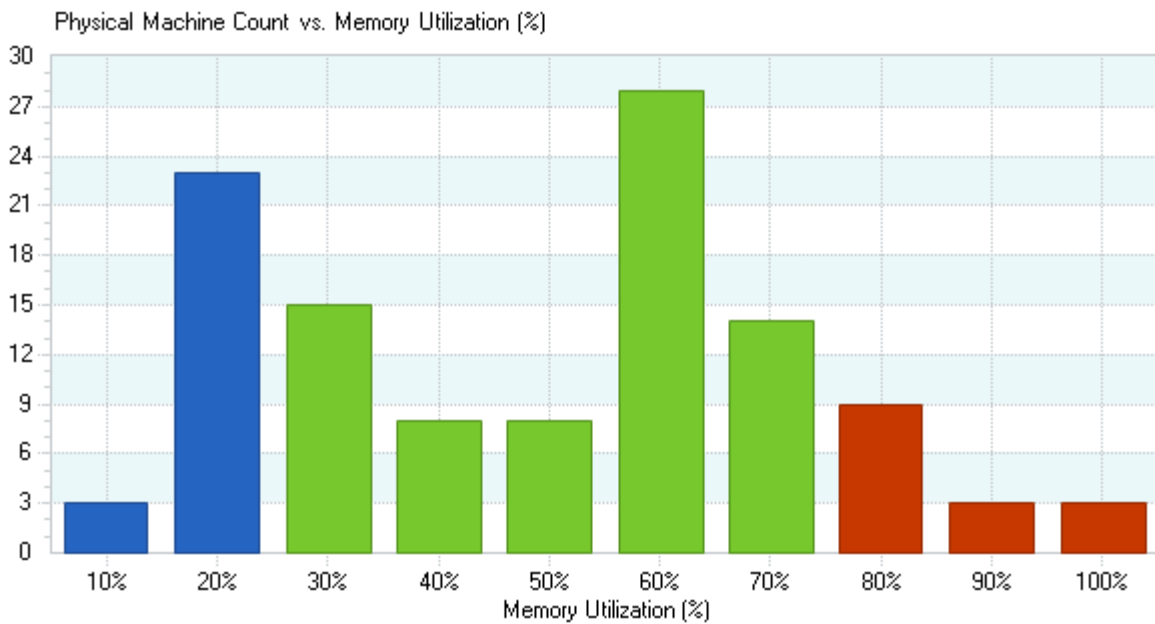
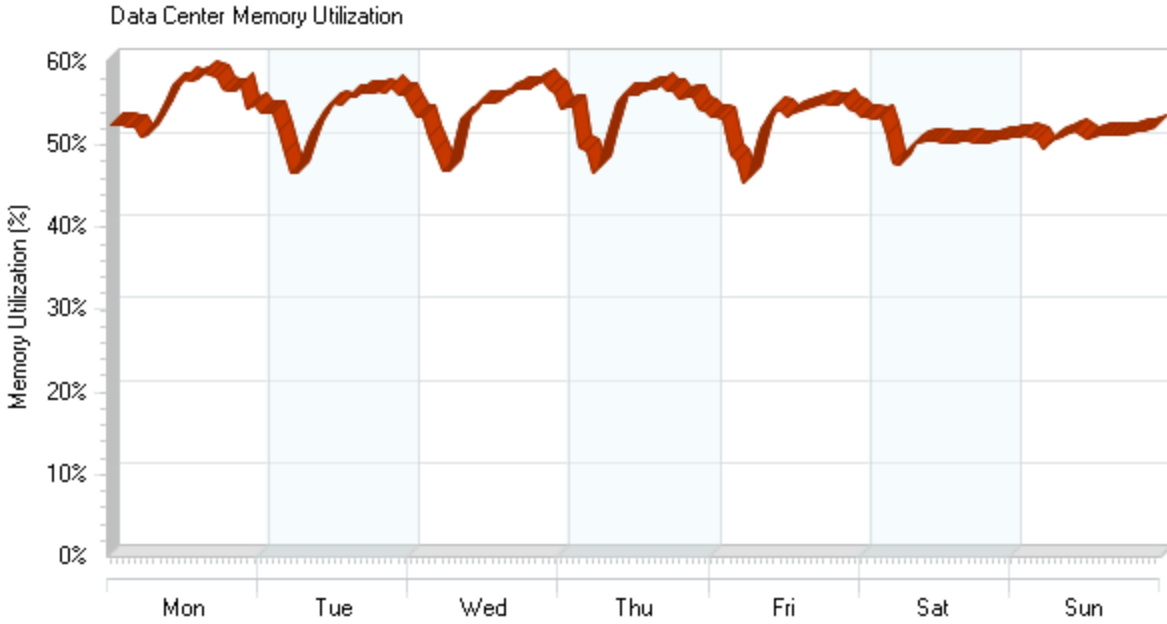
## Processor Utilization

Here is the overall processor utilization across desktops and servers. Most non-virtualized IT infrastructure operates at processor utilization below 10%. Virtualized IT infrastructure uses processing capacity much more efficiently, thereby reducing power consumption and carbon emissions.



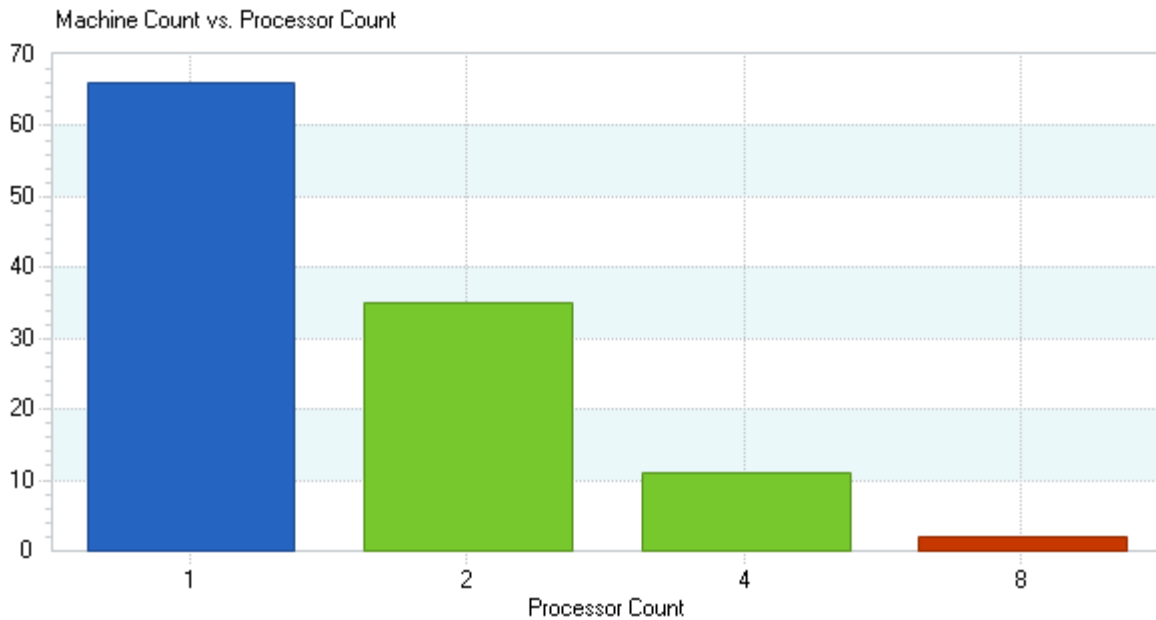
# Memory Utilization

Here is the overall memory utilization across desktops and servers. Memory is typically the constraining resource for virtualized IT infrastructure, particularly when virtualization overhead is taken into account.

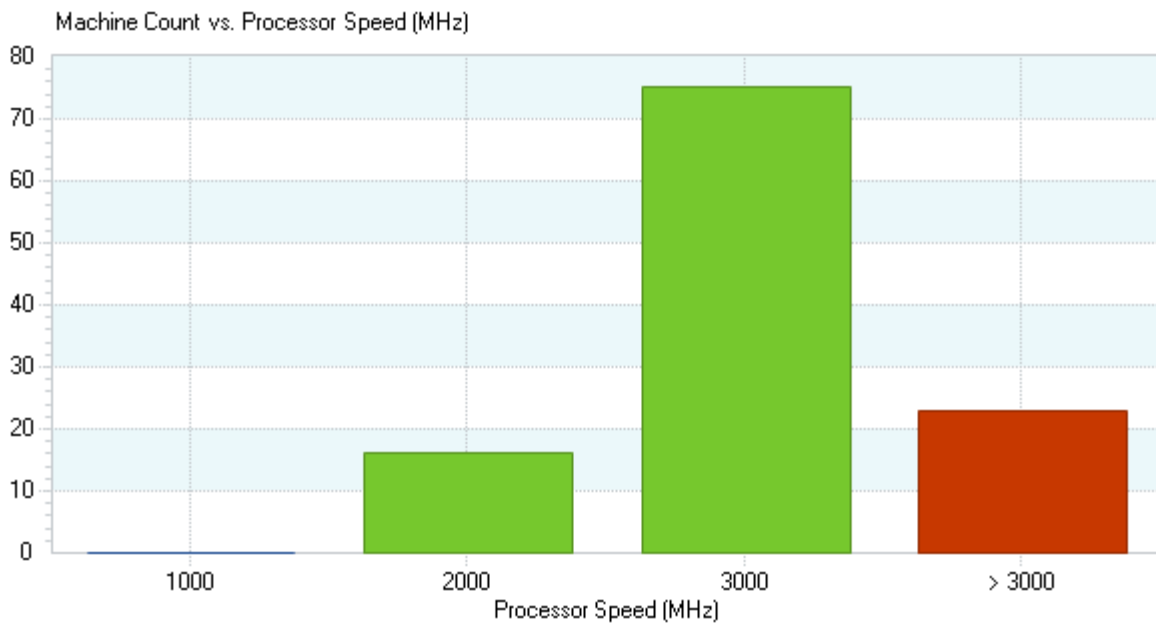


## Processors

Here is the distribution of physical desktops and servers based on the number of physical processors each one contains. In most cases, one-way servers with low processor and memory usage are good candidates for virtualization. Servers with four or more processing cores are often good candidates for redeployment as virtual machine hosts.

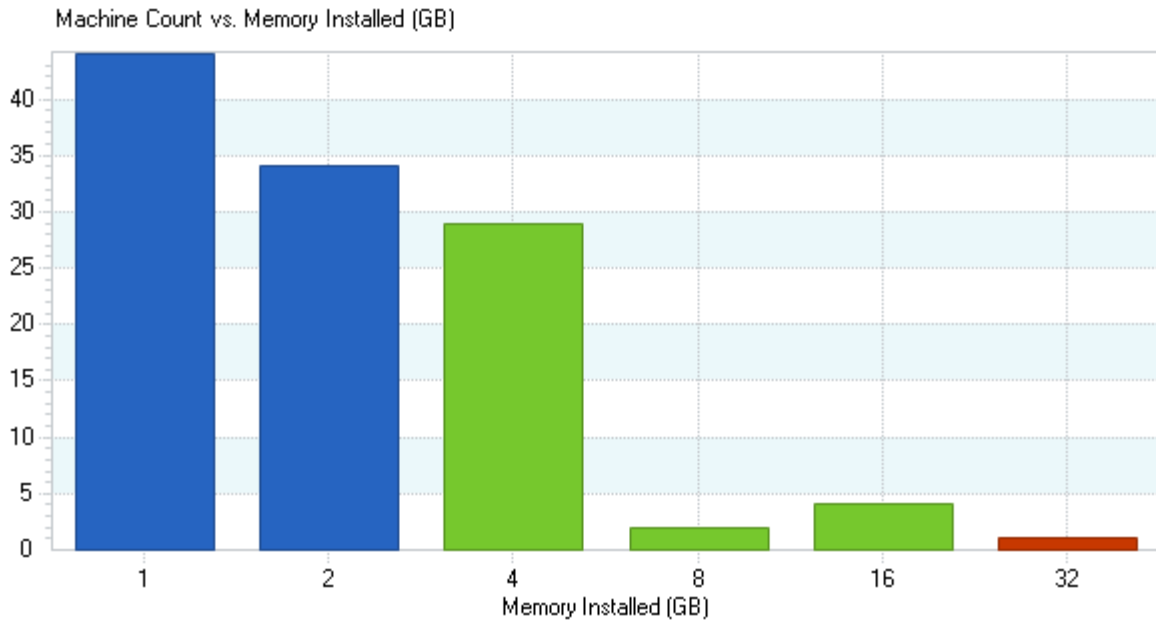


Here is the distribution of physical processors based on processor speed.



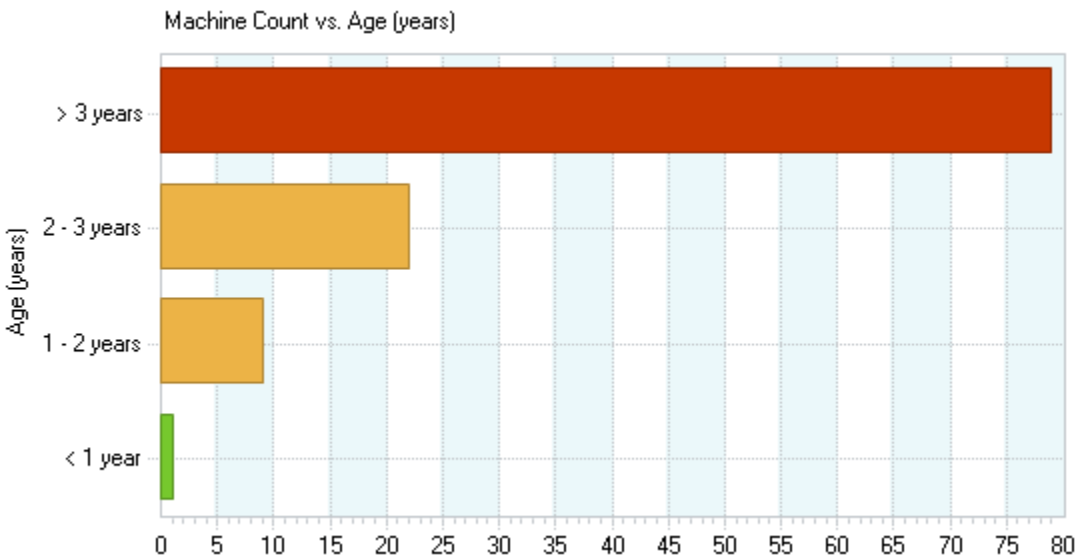
## Memory

Here is the distribution of desktops and servers based on the amount of physical memory installed. In most cases, servers with 2 GB of memory or less are good candidates for virtualization. Servers with 12 GB of physical memory or more are suitable for redeployment as virtual machine hosts.



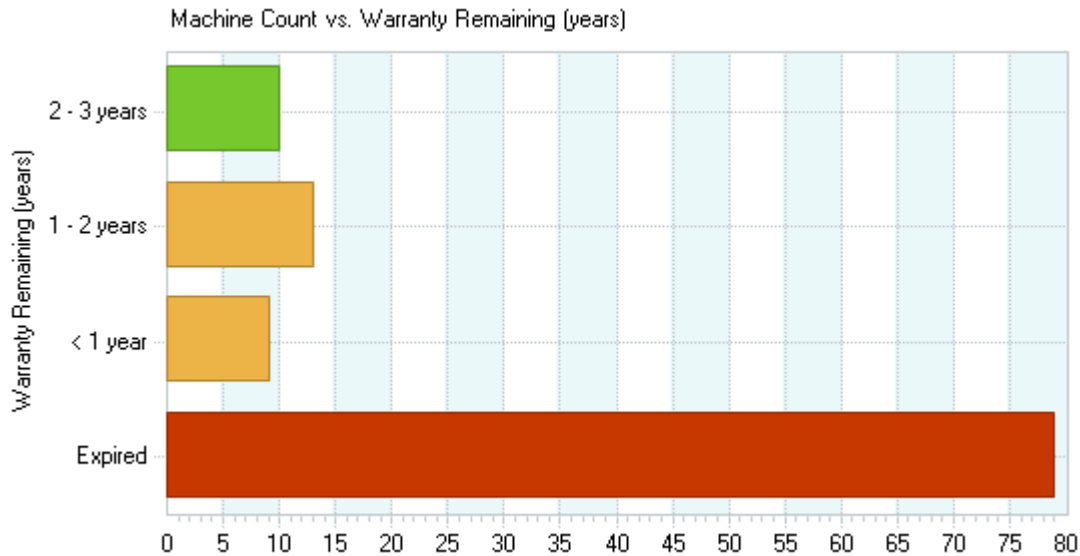
## Age

Here is the approximate age of physical servers and desktops with known age information.



## Warranty Coverage

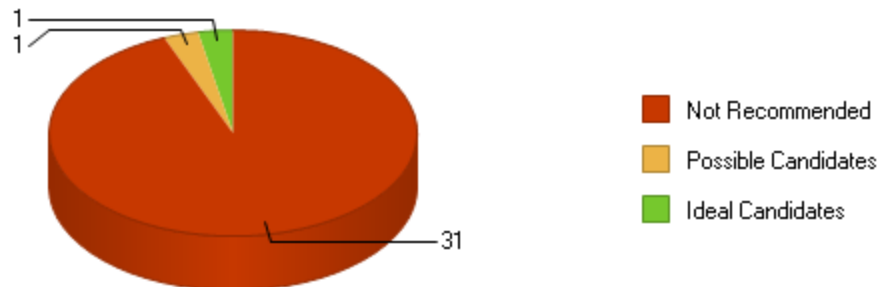
Here is the approximate warranty coverage for physical desktops and servers. It is recommended that machines with expired warranty be virtualized. Alternatively, workloads should be migrated from these machines to ones under warranty.



## Hardware Reuse Candidates

Here is the distribution of servers that may be reused based on memory installed. Servers with 24 GB of memory or more are ideal candidates for redeployment as virtual machine hosts. Servers with less than 24 GB of memory installed but 12 GB or more are possible candidates for redeployment. It is possible but not recommended to redeploy servers with less than 12 GB of memory installed.

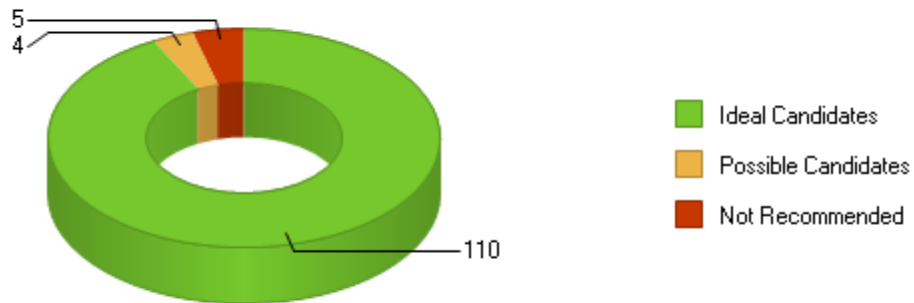
Hardware Reuse Candidates Based on Memory Installed



## Virtualization Candidates

Here is the distribution of candidate workloads for virtualization based on processor usage. Ideal candidates are workloads using less than 1000 MHz. Workloads using less than 3000 MHz but more than 1000 MHz are possible candidates for virtualization. It is possible but not recommended to virtualize workloads using more than 3000 MHz.

Candidate Workloads for Virtualization Based on Processor Used



Here is the distribution of candidate workloads for virtualization based on memory usage. Ideal candidates are workloads using less than 1.5 GB of memory. Workloads using less than 6 GB but more than 1.5 GB are possible candidates for virtualization. It is possible but not recommended to virtualize workloads using more than 6 GB of memory.

Candidate Workloads Based on Memory Used

