

Features	PMP
Supported Deployment Roles	
Electronic Computer Classrooms	✓
Smart Classrooms w/ Smart Boards and Significant External USB/Audio/Visual Hardware	✓
Electronic Computer Learning Centers	✓
Computer Labs and Science/Technology Labs with Computers	✓
Web Browsing Stations (often requires no image)	✓
Thin Client Workstation (RDP) via RDesktop or VMWare View Open Client	✓
Campus Kiosks (often requires no image)	✓
Digital Signage Networks (often requires no image)	✓
Faculty/Staff/Administrator Offices w/ Virtual Disk User Profiles	✓
Supervisor	
Boot from Removable Media (CD/DVD/Thumb drive)	✓
Boot from Network	✓
Automatic Hard Drive Install	✓
Installs on Long Term Support Build of Ubuntu	✓
Centralized Supervisor Upgrades (utilizing peer-to-peer distribution)	✓
Supervisor Works Disconnected from the Network	✓
Self-healing Using Copy-on-Write Partition (high consistency)	✓
Super-fast Installation on Bare Metal Computers with Empty Hard Drives (less than 2 minutes)	✓
Supports 64 Bit Kernel (supports 32 and 64 bit client operating system deployments)	✓
Supports 32 Bit Kernel (for computers with old processors that are not 64 bit capable)	✗
Very Small Installation Size (< 1 GB)	✓
Status	
Hardware Inventory Collection and Reporting	✓
Remote Image Deployment Status Web Reporting	✓
Local Image Deployment and Provisioning Status on Screen	✓
Local CPU, Disk, Network Utilization on Screen	✓
Graphical User Interface Based Status and Reporting	✓
Textual Log Files with Detailed Information about Configuration and Provisioning	✓
Configuration and Management	
Assign Multiple Simultaneous Images (either Native VHD or Virtual Machines, any mix) to a Single Computer	✓
Hierarchal Configuration Schema Allowing Inheritance of Settings from Parents	✓
Bulk Reassignment of Nodes from One Configuration to Another	✓
Automated Quick Registration (allow junior and part time staff to quickly register computers)	✓
Can be Pre-loaded by Computer Vendors Before Shipping in Less than 2 Minutes	✓
Node Sub-group Membership, with Ability to Assign Configuration and Actions to a Sub-group	✓
Purpose Built Secure Desktop Focused on Launching Images	✓
Password Controlled Images and Applications	✓
Web Based Graphical User Interface: Image Management on Primary Seeder	✓
Director Command Line Configuration Commands and Text Configuration Files	✓
Network Based Command Sender and Listener (can target any level of hierarchy or specific nodes)	✓
Debugging/Test Modes that Allow Support Professionals to See More Verbose Messaging	✓

Distribution	
Peer-to-Peer Distribution (fast, minimal server requirements)	✓
Unicast Distribution (simple, more significant server requirements)	✓
Multicast Distribution (skipped in favor of peer-to-peer)	✗
Designate Clients as Dedicated Peer-to-Peer Seeders per Image	✓
Peer-to-Peer Clients can Start Downloading Image Before Image is Completely Uploaded to Server	✓
Virtual Disk Support (Shared by Microsoft Windows 7 Native VHD and VirtualBox VDI)	
Uncompressed Image Distribution	✓
Optional Compressed Image Distribution (approx 2:1 compression)	✓
Automated Sysprep Provisioning	✓
Automated Post-provisioning Patching	✓
Differencing Disk Used Before Provisioning to Keep Master Image Stable	✓
Differencing Disk Used Before End-user Boot (resets state for each boot)	✓
Offline File System Patching (NTFS, EXT2, EXT3, FAT)	✓
Offline Windows Registry Changes	✓
Reprovision Without Re-downloading	✓
Images Booted in Native VHD Mode	
Microsoft Windows 7 Native VHD Boot Support	✓
Automatic Boot Loader/BCD Configuration	✓
Support for Nested VHD Differencing Disks	✓
Automatically Hide NTFS Partition Holding VHDs From Windows	✓
Separate Native NTFS Pagefile Partition	✓
Continued Seeding of Images After Booting into Windows Natively	✗
Images Booted in Virtual Machine Mode	
Background Provisioning (e.g. Microsoft Windows Sysprep)	✓
Background Peer-to-Peer Transfers	✓
Boot Multiple VM's Simultaneously ¹	✓
Continued Seeding of All Images After Booting Virtual Machines	✓
USB Pass-Through ²	✓
Full screen VM or Windowed VM ²	✓
Hardware Accelerated Video Support ²	✓
Supervisor Hypervisor Integration for Guest Support	
Integrates with Oracle VirtualBox	✓
Integrates with VMWare (Not at this time, please inquire if you are interested)	✗

Client Minimum Requirements (assumes supporting two images, at 25 GB each)	
Processor:	64 Bit, 1.4 GHz or higher. Recommend 2.0 GHz+. Requires VT-X if not using Native VHD
RAM:	2 GB for Native VHD Boot. 4 GB Minimum for Virtual Machine Boot (Recommend 6GB+)
Hard Disk:	240 GB. Recommend 360 GB+
Network Card:	Minimum 100 mbps. Recommend 1 gbps, with PXE boot support.
Installation Method:	Requires support for one of: DVD-ROM Drive, USB Media Boot, or Network PXE Boot

Director Server Minimum Requirements	
Processor:	64 Bit, 1.4 GHz or higher
RAM:	4 GB
Operating System Disk Space:	80 GB
Imaging Storage Disk Space:	200 GB Minimum. 500 GB+ recommended. SATA drives are sufficient; speed comes from PivotalPeering and not from server disk speed.
Network Interface Card:	Minimum 1 gbps. Not a strong need for multiple NICs other than redundancy.
Installation Method:	DVD-ROM Drive for easy installation.
Virtualization:	Director is fully supported to run under VMWare, and most other commercial hypervisors.

¹ Limited by available RAM and CPU resources

² PMP simplifies and automates the configuration of these features for the chosen hypervisor platform. The capabilities and limitations of these features are specific to the chosen platform. When maximum performance and hardware compatibility is required, we recommend PMP's Native VHD boot mode.