

HP Packaged Consulting Services

HP Client Virtualization Analysis and Modeling Service

Service overview

One of the keys to a successful client virtualization implementation, especially with virtual desktop technologies, is correct analysis of the existing physical desktops' current load and use characteristics regarding both applications and resources (e.g., CPU, memory, disk I/O). Applying testing guidelines from software vendors to one's own environment is a common mistake that often results in a significant investment of capital into a supporting infrastructure that is determined, usually late into the implementation cycle, to be insufficient to meet the organization's performance requirements. To help you avoid having to rely on sizing and performance models developed in a virtualization vendor's lab, HP offers the Client Virtualization Analysis and Modeling (CVAM) Service, an entry-level service that supports up to 500 seats (desktops).

HP will supply an agent-based data collection tool and use it to gather data regarding users and the applications they use. The data collection tool is delivered as a virtual appliance—essentially, a virtual machine running Windows® 2008 R2 with the data collection tool pre-installed. The result is a series of reports and recommendations for a properly planned and sized virtualization project. The HP CVAM Service provides the necessary analysis, modeling, and planning support to get your client virtualization project, specifically a virtual desktop infrastructure (VDI) project, off on the right foot.

Service benefits

HP CVAM Service will assist you with:

- Understanding your current environment and properly planning your move to client virtualization
- Analysis of real desktops in your environment
- Capacity planning and resource modeling based on your real-world numbers, rather than best-case scenarios
- The right information to plan for virtual machine 'golden' images, including:
 - Understanding application usage
 - Identifying applications that could prove problematic when included as part of a virtual machine image

Service feature highlights

- Service objectives and results
- Resource calculations
- Data analysis
- Deliverables



Specifications

Table 1. Service features

Feature	Delivery specifications
Service objectives and results	Understanding the current environment and properly planning for virtualization is the key to success. During this 5-week engagement, HP CVAM Service will gather and apply information specific to the Customer's environment (for up to 500 desktops), eliminating the guesswork. In short, this service will help the Customer understand user behavior; observe how that behavior drives application resource requirements; and identify those applications, users, and systems that are suitable (as well as those that are unsuitable) for virtualization.
Resource calculations	During modeling of the virtualized environment, data gathered from the Customer's environment will be used to calculate the following resources: <ul style="list-style-type: none">• Predicted data- or time-based demand• Auto-detected work week and breaks• Cooperative loads for load leveling• Resources, including CPU, memory, disk, and network• Operating system and service pack• Application demand and commonality among users• User-specific growth and confidence requirements Depending on the Customer's security requirements, HP will use either the delivery consultant's HP laptop computer or the USB key/external USB drive attached to a computer on the Customer's network to import the HP CVAM Virtual Appliance into the Customer's virtual infrastructure environment (using software such as vCenter or SCVMM).
Data analysis	The data collected and analyzed during modeling is used to generate: <ul style="list-style-type: none">• Calculated hardware requirements• Optimized physical-to-virtual mappings• Application and user analysis• Executive summary recommendations• Service deliverables
Deliverables	HP will provide one copy of each of the following deliverables at the conclusion of the engagement: <ul style="list-style-type: none">• HP summary report: a Word document summarizing HP's findings.• User grouping report: a Word document identifying user profiles based on system and application usage• Virtualization report: a PowerPoint document identifying a high-level plan for desktop virtualization, based on the endpoints analyzed.• Client virtualization hardware and software report: a Word document identifying, at a high level, the hardware and software needed to move forward with a client virtualization pilot, to support the endpoints analyzed, including:<ul style="list-style-type: none">– Number of hypervisors and their specifications– Amount of storage required, including maximum sustained input/output processors– Applications found on the analyzed endpoints– Number of unique images currently in the enterprise (based on desktops analyzed)

Service limitations

The scope of this service is limited to the activities outlined above. While HP provides additional virtualization and desktop services, the HP CVAM Service excludes the following components:

- Visit to more than one site
- Detailed financial business case development
- Server virtualization
- Current-state detailed technical analysis, future-state architecture blueprint, realization roadmap, design, detailed planning, production pilot, or implementation services

HP Technology Services will deliver HP Client Virtualization Analysis and Modeling (CVAM) Service during normal business working hours, Monday through Friday, 8:00 a.m. to 5:00 p.m., excluding HP holidays. The scope of this service is limited to the deliverables stated in this document; it does not include the integration of other products and services. An engagement start date will be established upon receipt of the Customer's purchase of this service, which is limited to 500 seats (desktops) or fewer.

Customer responsibilities

The Customer must fulfill the following prerequisites for HP CVAM Service delivery prior to the arrival of the HP delivery consultant:

- Provide 20 GB of disk space, two vCPUs, 4 GB RAM, one 10-Gb virtual NIC, and a computer name to be used with the HP CVAM Virtual Appliance
- Set up an IP address to be used with the HP CVAM Virtual Appliance:
 - IP 'visibility' from appliance to targeted assets
 - DNS host entry for appliance
 - DNS server IP addresses
 - Default gateway IP address
- Ensure that the HP CVAM Virtual Appliance has Internet access (to register the license file)
- Provide the needed corporate antivirus software if the appliance requires antivirus software to be loaded

Note: Any firewall security in place between the virtual LAN (VLAN) that contains the HP CVAM Virtual Appliance and the VLAN that contains the target assets must incorporate a rule that allows for the following access on IP port 57632:

- HP CVAM Virtual Appliance IP to any IP address in the target VLAN
- Any IP address in the target VLAN to HP CVAM Virtual Appliance IP
- List of assets targeted for analysis and modeling, which must include:
 - Text file of short names and/or IP addresses
 - No DNS issues with any of the systems in the import list; otherwise, IP delivery only will be used
 - Credentials for use in the deployment tool that is a member of local administrators group on the targeted assets, or a domain account that is a part of the local administrators group if the Customer requires the appliance to be added to Active Directory

The Customer must either supply HP with a user account that has credentials to access the Customer's virtual infrastructure, or assign the needed credentials to a Customer resource skilled in importing and configuring virtual appliances, to allow for the importation of the HP CVAM Virtual Appliance.

Ordering information

Availability of service features and service levels may vary according to local resources and may be restricted to eligible products and geographic locations. To obtain further information or to order the HP CVAM Service, contact a local HP sales representative and reference the following product number:

- H1Y18A1 for HP Client Virtualization Analysis and Modeling Service

Depending on the point of purchase and the requested service-level option, other product numbers may apply. Please consult a local HP representative or HP reseller regarding which product number will best meet specific needs.

For more information

For more information on HP Packaged Consulting Services, contact any of our worldwide sales offices or resellers or visit our website at hp.com/services/consulting.

