

VMmark 3.1.1 Release Notes

VMmark® 3.1.1 | 14 March 2020 | vmmark3.1.1-template-031420

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What's New in VMmark 3.1.1

VMmark 3.1.1 fixes a bug in Weathervane (one of the VMmark workloads).

Upgrading from VMmark 1.x, 2.x, or 3.0

To upgrade from VMmark 1.x, 2.x, or 3.0 to VMmark 3.1.1, perform a complete installation by following the instructions in Chapter 3 ("Preparing the Infrastructure for VMmark 3 Benchmark Tests") of the *VMmark User's Guide*.

Upgrading from VMmark 3.1

To upgrade from VMmark 3.1 to VMmark 3.1.1, perform the following steps:

1. Using the latest VMmark3 template (vmmark3.1.1-template-031420.ova) as the source, deploy a new VM and name it VMmark3.1.1-template-031420.
(See "Deploy the VMmark Template" on page 46 of the *VMmark User's Guide* for detailed instructions.)
2. If desired, redeploy the prime client:
 - If you choose to redeploy the prime client, you'll lose any prior VMmark results stored on your existing prime client (though you can manually transfer them to the new prime client if desired, as described below).
 - If you choose *not* to redeploy the prime client, your VMmark environment will continue to display version 3.1 within the VMmark splash screen and STAX logs.

To redeploy the prime client:

- Rename your existing prime client.
- Follow the instructions in the *VMmark User's Guide* in the sections "Create the Prime Client," "Configure the Prime Client," and "Optional Configuration Changes for the Prime Client."
- Optionally, manually transfer any prior VMmark results files from your old prime client to your new prime client (as described below).

3. Delete the following VMs:
 - All existing workload client VMs (but do not delete the prime client).
 - All Weathervane workload VMs (that is, all VMs beginning with Auction or Elastic).
4. Power on all remaining workload VMs (that is, all VMs beginning with DS3 or Standby) and wait until the boot process has completed and they are all online.
5. Reprovision the client VMs and Weathervane workload VMs you just deleted:
 - a. In the VMmark3.properties file update the provisioning source and the deploy template:
 ProvisioningSource = vmmark3.1.1-template-031420
 Deploy/Templates = vmmark3.1.1-template-031420
 - b. Still in the VMmark3.properties file, modify the ProvisioningDatastores parameter so that only the VMtype:DatastoreName pairs you deleted are listed and will be reprovisioned.
 (By removing the VMtype:DatastoreName pairs for the VMs you don't want to recreate, you prevent the provisioning service from seeing those VMs and issuing an error message.)
 These VM types must be reprovisioned:
 Client, AuctionLB, AuctionMSQ, AuctionWebA, AuctionWebB, AuctionAppA, AuctionAppB, AuctionNoSQL, AuctionDB, ElasticLB, ElasticWebA, ElasticWebB, ElasticAppA, ElasticAppB, and ElasticDB.
 - c. Issue a new provisioning request that includes the tile number (or numbers) in which you wish to recreate VMs.
 (See "Recreating Part of a Tile" on page 55 of the *VMmark User's Guide* for detailed reprovisioning instructions.)
6. Verify the upgrade by examining the /root/version.txt file on the client0 VM. You should find a line that starts with VMmark 3.1.1.

Note: After completing this upgrade, any VMmark results should have their disclosure.html files edited to change two occurrences of "VMmark 3.1" to "VMmark 3.1.1". This is true whether or not you redeploy the prime client.

Optional: Transferring VMmark Results Files Between Prime Clients

VMmark results files can be transferred between prime clients of the same major version by following the instructions in this section. You might wish to do this, for example, if you replace the prime client in a VMmark environment.

1. Mount an NFS share on the old prime client:


```
mkdir /tmp_mnt
mount <NFS Server IP>:/<share volume> /tmp_mnt
```
2. Copy the VMmark results directory from the old prime client to the NFS share:


```
cp -R /root/VMmark3/results/* /tmp_mnt
```
3. Unmount the NFS directory from the old prime client:


```
umount /tmp_mnt
```

4. Mount an NFS share on the new prime client:
`mkdir /tmp_mnt`
`mount <NFS Server IP>:/<share volume> /tmp_mnt`
5. Copy the VMmark results directory from the NFS share to the new prime client:
`cp -R /tmp_mnt/* /root/VMmark3/results/`
6. Unmount the NFS directory from the new prime client:
`umount /tmp_mnt`

Notices

VMmark Security Updates

The template virtual machine supplied with VMmark 3.1 includes all relevant guest operating system security patches known to VMware at the time of release. However, new security issues might be discovered after the template is released.

Because the VMmark benchmark requirements specify that VMmark test runs should be conducted in an isolated environment, we believe the security risks for typical VMmark deployments to be minimal. We thus do not plan to issue updated templates as new security issues are discovered. Each user should evaluate the risks based on their own environment and security policies; if desired, users can apply patches to their VMmark virtual machines, consistent with the benchmark run and reporting rules.

For the latest information on identified security advisories regarding the CentOS 7 operating system, see:

<https://www.centos.org/>

If you have additional questions, contact VMware at vmmark-info@vmware.com.

Further Information

For further information, contact VMware at vmmark-info@vmware.com.