

Time Machine[®] Sync Server

SYNC VIRTUAL TIME ACROSS THE ENTERPRISE

Features

Group Related Application Resources into Sync Groups

Automate Date and Time Sensitive Testing by Defining Simple Rules

Intuitive and Easy to use GUI

Supported on the Following Platforms:

- Linux
- Windows
- Solaris
- AIX
- HP/UX

API for Enabling and Disabling Sync Groups Programmatically

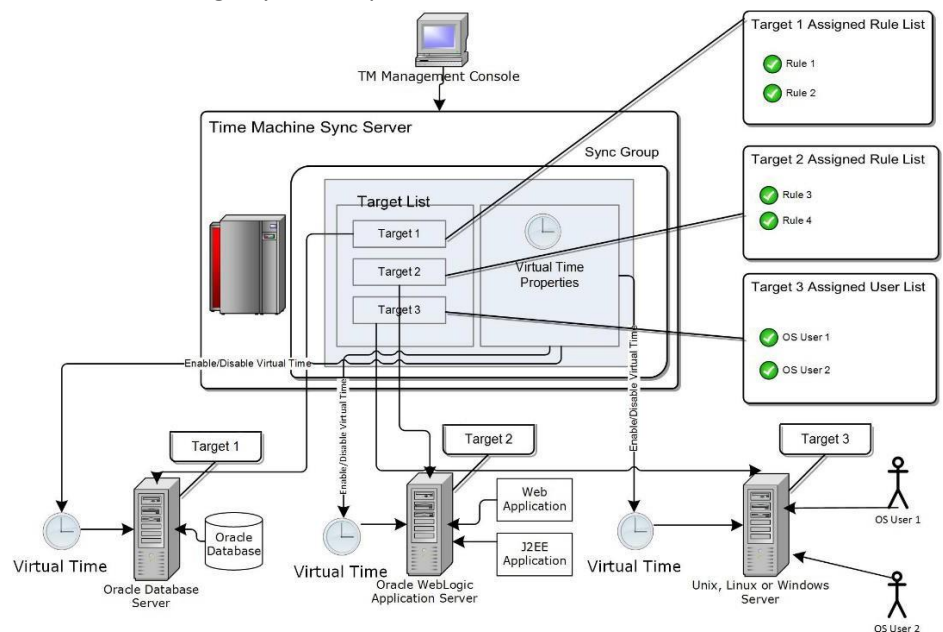
The Time Machine Sync Server also allows for the configuration of password protected roles facilitating Access Control Lists; providing a certain group of users the ability to set virtual clocks and others to actually manage and configure the Sync Groups and their targets.

Ease of Use for Automated Testing

Time Machine has long been the de facto standard in enabling the automation of time shift testing. Now, with the Time Machine Sync Server, a comprehensive API allows for the ability to enable, disable and set virtual time for a Sync Group programmatically. Just call the API as part of an automated testing script to enable the Sync Group, then proceed through the scripted test case(s), change the virtual time for the Sync Group to accommodate the next date centric test case and when virtual clocks are no longer needed, the Sync Group can be disabled via the API. The API calls could be initiated from industry leading tools from HP, Oracle, IBM, SmartBear, open source tools like Selenium or even in pure development in test environments. So long as the scripting language has the ability to make a web service call via http(s), the Sync Server API will facilitate faster regression testing through automation.

The Time Machine Sync Server provides a centralized control center for broadcasting virtual clocks to all Time Machine servers in the enterprise, making management and deployment of virtual clocks a breeze. The Sync Server uses Sync Groups to group together target machines that can be on-premises or in the cloud. They can include Time Machine clients running on UNIX, Linux, and Windows, standalone Docker containers or deployments in orchestration platforms such as OpenShift or Kubernetes; and even rules defined with the Time Machine Frameworks for databases or application servers.

Simply deploy the Time Machine Sync Server to any UNIX, Linux or Windows server. So long as the Sync Server machine has Java version 1.8 or greater and network accessibility to the targets you need to control with synchronous virtual clocks, the choices are wide open. The Time Machine Management Console provides Sync Server users an intuitive GUI interface from which to create and manage Sync Groups.



Sync Group Management & Settings

Sync Group Settings | Sync Group Management

Sync Group Virtual Time :: not enabled

Property	Value
General Settings	
Sync Group Name	dotNetApp
Enabled?	☐
Description	
General Virtual Clock Settings	
Apply Virtual Clock Settings to Sync Group Rules?	☒
Use Absolute Virtual Clock?	☒
Frozen?	☐
Clock Speed	2
Persistent? (Valid only for TMAgent targets)	☐
Virtual Clock Settings :: Absolute Time (Time Zone: Pacific Standard Time PDT)	
Absolute Date (Pacific Standard Time PDT)	9/ 1/2018
Absolute Time (Pacific Standard Time PDT)	9:30 PM
Virtual Clock Settings :: Relative Time	

Target List					Rule List	
Target Name	Target Type	Online?	Connection String	Actual Virtual Time	Rule Name	Avail
win2012	TMAgent	Yes	172.16.112.134:7800		snguyen(User)	Yes
					SQL(User)	Yes
					sylvia(User)	Yes
					test1\$(User)	Yes
					tester(User)	Yes
					iis apppool\web9(User)	No
					nt service\mssqlserver(User)	No

OK Save Close

Virtual Clock Persistence

The Time Machine Sync Server has introduced another sought after feature. Solution-Soft's customers have requested virtual clock persistence and we have listened. Part of the Sync Group configuration allows for the virtual clocks to persist through the restart of the servers often required for things like system maintenance and the application of security patches. If a virtual clock was set for the target and marked as persistent, then at restart, when Time Machine and the Time Machine Agent start the virtual clocks will be re-established in a way that enables them to be in sync with the other targets in the Sync Group.

Request a Demo

Download a free Time Machine demo at www.solution.com.

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