

IBM Tivoli Service Automation Manager V7.2.2

Managing projects



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In this training module you learn how to create a project and how to cancel a project.

Objectives

When you have completed this training module, you can accomplish these tasks:

- Create a project
- Name the three classes of users who are authorized to create projects
- Cancel a project

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Creating projects (1 of 7)

- Cloud administrators, cloud customer administrators, and team administrators can create new projects
- Create new project request will be either auto-approved (default) or sent for cloud administrator's approval
- New project customer must have the required resources assigned
- Log in to the self-service user interface as a cloud administrator, and select the customer
- In the **Home** panel, click **Request a New Service > Virtual Server Management**
- Depending on the hypervisor that is configured in your environment, select **Create Project** with the configured server type
- The Create Project wizard opens

Only cloud administrators, cloud customer administrators, and team administrators can create new projects. Depending on the approval workflow diagram, the request will be auto-approved (default), or sent for cloud administrator's approval. Ensure that the customer for which you are creating the project has the required resources assigned. To walk through creating new project, first log in to the self-service interface as a cloud administrator. Next, select the new project's customer. To select the customer go to the Home panel. Click **Request a New Service > Virtual Server Management**. Select **Create Project** with *the* configured server type.

Creating projects (2 of 7)

Create Project with VMware Servers

Project Details

Requested Image Provision one or more VMware virtual machines containing a software image.

Server Details (optional)

*Project Name *Team to Grant Access

Project Description

Additional Software (optional)

Network Configuration (optional)

*Start Date *Start Time *End Date *End Time

5/31/2012 11:10 AM Until this date 6/14/2012 11:10 AM

Other Settings (optional)

Summary

Check resources Back Next Finish Cancel

This screen capture displays a Create Project window.

Creating projects (3 of 7)

- **Project Details** data requirements:
 - Project name
 - Team having project access
 - Project description (optional text)
 - Project start date, start time, and project duration
- **Requested Image** data requirements:
 - Choose resource group used to reserve resources
 - Operating system image deployment choice (only registered images)
 - Number of project servers to be provisioned
- **Server Details:** Adjust settings of requested resources

In the **Project Details** panel you have to: Enter a project name. Select the team that should have access to the project. Optionally, type a description for the project.

Set the start date and time, and duration. Note that the time of provisioning is based on the time and time zone set on your local machine when the request is submitted.

Ensure that your time is set correctly. Click **Next**. Move into the **Requested Image** tab. Select the resource group used to reserve resources. Select the operating system image to be deployed. Consider that only registered images are available. Select the number of servers to be provisioned in the project. Again click **Next**. In the **Server Details** tab, use the slider buttons to adjust the settings of the requested resources as required. After adjusting the settings click **Next**.

Creating projects (4 of 7)

The following values are restricted for certain platforms:

	VMware	POWER® LPAR via HMC and VMControl
Memory	a multiple of 4 MB	a multiple of 128 MB
Swap Memory	a multiple of 1 GB - decimal values are not allowed	
Virtual CPU	1, 2 or 4	-
Disk	-	For POWER LPAR servers provisioned via IBM® Systems Director VMControl™ disk space value is static and cannot be modified.

There are four restrictions to keep in mind based on the platform:

- 1) The memory on VMWare must be a multiple of 4 MB; on Power LPAR it must be a multiple of 128 MB.
- 2) The Swap Memory must be a multiple of 1 GB – decimal values are not allowed.
- 3) Virtual CPU on VMWare can have a real value of 1, 2, or 4.
- 4) The disk space value for Power LPAR is static and cannot be modified.

Creating projects (5 of 7)

- If you are provisioning a POWER LPAR server using HMC, and have additional storage disks that are configured and assigned to the customer then add additional storage as necessary to your project in the **Additional Disks** tab:
 - Review available storage resources and verify they have been configured correctly
 - Specify a mount point, volume group name, and volume name
 - Select disk size to be assigned to each requested server
 - Select the file system
 - Click **Add New** to add another disk
 - Click **Next**

If you are provisioning a POWER® LPAR server using HMC, and have additional storage disks configured and assigned to the customer, you can add additional storage to your project. In the **Additional Disks** tab: Review the available storage resources. If no resources are available, verify that they have been configured correctly in the administrative user interface. Specify the mount point, volume group name, and volume name. Select the disk size to be assigned to each requested server. If you cannot select the disk size, the required resources are not available. Select the file system to be used. Click **Add New** to add another disk, and repeat the steps to fill in the details. Click **Next**.

Creating projects (6 of 7)

- In the **Additional Software** tab, select **additional software modules** to install on the requested servers:
 - Use the arrows to select additional software to be installed on the provisioned servers. Then, use the vertical arrows to set the order in which the items are to be installed. If the software item requirements can be fulfilled, its name will appear in the **Selected Software** box. Otherwise an error message will be displayed
 - To specify any additional parameters for each software item, select an item and click **Configure Software**
 - Fill in the fields as required
Default values for the parameters are displayed in the input fields and are editable if they can be modified. Input for encrypted parameters is displayed as passwords. Hidden parameters are not displayed on the user interface
- In the **Network Configuration** tab, select a network segment for each network interface

In the **Additional Software** tab, select additional software modules to install on the requested servers. Use the arrows to select the additional software. Use the vertical arrows to set the order in which the items are to be installed. If the software item requirements can be fulfilled, its name will appear in the **Selected Software** box. Otherwise, an error message will be displayed. To specify any additional parameters for each software item, select an item and click **Configure Software**. Fill in the fields as required. Default values for the parameters are displayed in the input fields and are editable if they can be modified. Input for encrypted parameters is displayed as passwords. Hidden parameters are not displayed on the user interface. In the **Network Configuration** tab, select a network segment for each network interface.

Creating projects (7 of 7)

- Define settings in the **Other Settings** tab:
 - Select the following VMware, POWER LPAR using HMC and KVM project options, if required:
 - Configure the project to automatically save a new image of each virtual server in this project at the time the project is canceled
 - Configure the project so that the existing server images are not removed along with the servers at the time the project is canceled
 - Select Monitoring Agent installation, if required
 - Click **Next**
- Review the **Summary** tab settings and click **Finish** to submit the request
- When the **My Requests** section on the right side of the **Home** panel shows this request as "Resolved", the project has been created and the requested virtual machines have been deployed. All users in the team will receive emails with the virtual machine credentials needed for access

Define required settings in the **Other Settings** tab. For VMware, POWER LPAR using HMC and KVM projects, select the following options, if required: Select the required check box if you want to configure the project to automatically save a new image of each virtual server in this project at the time the project is canceled. Select the required check box if you want to configure the project so that the existing server images are not removed along with the servers at the time the project is canceled. Select **Monitoring Agent to be Installed**, if required. This agent performs scans to identify server resource utilization (memory, CPU and disk space). The usage values can then be viewed in the **Manage Servers** panel. This field is only available if configured. Click **Next**.

In the **Summary** tab, review the settings for your project. Click **Finish** to submit the request. When the **My Requests** section on the right side of the Home panel shows this request as "Resolved", the project has been created and the requested virtual machines have been deployed. All users in the team will receive emails with the virtual machine credentials so they can access them.

Cancelling a project (1 of 3)

- The cancellation action de-provisions all virtual machines associated with the project
 - Resources are assigned (CPU, memory, and disk) back into the Cloud pool
 - The project's status will be decommissioned
 - It can be accounted for in reporting and usage accounting, if the features are enabled
 - To cancel a project:
 - Log in to the self-service interface as a cloud administrator, and select the customer
 - In the Home panel, click **Request a New Service > Virtual Server Management > Cancel Project**
 - Select the Project Name from the drop-down list
- Notice the save and keep flags at the bottom of the screen:
- The **save** statement means that a new backup of the server will be taken before de-provisioning
 - The **keep** statement means that any existing backups will not be deleted

Users can cancel an operational project. This action de-provisions all virtual machines associated with the project, assigning those resources (CPU, memory, and disk) back into the Cloud pool. The project's status will be decommissioned so that if features are enabled the project can be accounted for in reporting and usage accounting statistics.

To cancel a project:

Log in to the self-service interface as a cloud administrator, and select the customer. In the **Home** panel, click **Request a New Service > Virtual Server Management > Cancel Project**.

Select the **Project Name** from the drop-down list. Notice the save and keep flags at the bottom of the screen. The save statement means that a new backup image of the server will be taken before de-provisioning. The keep statement means that any existing backups will not be deleted.

Cancelling a project (2 of 3)

Use this task to cancel a project. All of its virtual servers will be de-provisioned and would no longer be available. Any saved images will also be deleted.

*Project Name

Project Details Operational

Project Name	GF_LISTVM_TEST
Project Description	
Project Type	RDP
Start Date	5/22/12 10:17 AM
End Date	Indefinite
Team Access	L2

The following servers will be returned and made available to other users

Server Name	Hypervisor	Status	CPU	Memory	Disk
Its10706	VMware	Created	1	0.098 GB	12 GB
vmw010000107007	VMware	Created	1	0.098 GB	12 GB

The following images will be removed from the image library

Image Name	Date	Creator	Description	CPU	Memory	Disk
<input type="checkbox"/> Save an image of each server when the project reaches its end date and is being decommissioned <input type="checkbox"/> Keep existing saved images after the project has been decommissioned						

OK Cancel

This screen capture shows the **Cancel Project** panel.

Cancelling a project (3 of 3)

- Submit the project cancellation request
- Confirm the project cancellation

When the Cancel Project request is Resolved, check to see that the backups have completed and that the deprovisioning of the virtual machine resources has occurred

Click **OK** to submit the cancellation request. Click **Yes** at the **Cancel Project** confirmation. Wait for the project cancellation change in status.

When the project cancel request goes to status Resolved, verify that backups have completed and that de-provisioning of virtual machine resources has occurred.

Summary

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