# Citrix XenServer Action Pack

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## Overview

Objects are provide to provision and manage Citrix Xen Server virtual environments.

It uses the ‘xe’ command line utility to interact with Citrix Xen hosts. For complete details on xe, please refer to the Citrix XenServer Administration Guide which may be obtained here: http://support.citrix.com/article/CTX141500

## Pre-Requisites

* Automic Engine 11.2 or above
* Tested against Citrix XenServer 6.5.0
* Automic Windows / Unix agent
* Citrix XenServer ‘xe’ utility

## Installation

1. Install the ‘xe’ command line utility on your agent machine (it can be found on the XenServer media, or installed via rpm on Linux).
2. Update your PATH environment variable to include the location of xe.
3. Ensure you can connect to XenServer from the command-line, e.g.

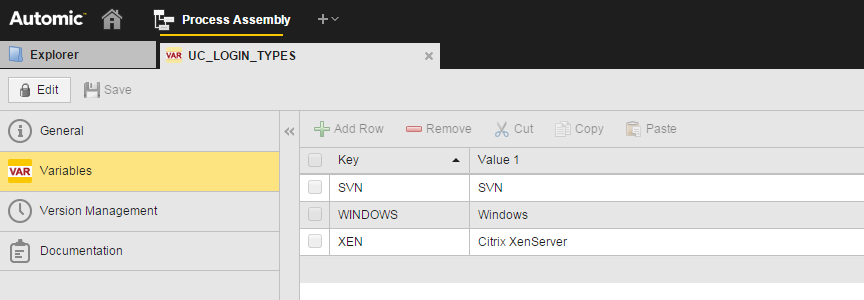
xe -s 192.168.59.138 -u root -pw password host-list

uuid ( RO) : d63d7bbd-593c-4fd3-9f19-a38193f6f1e6

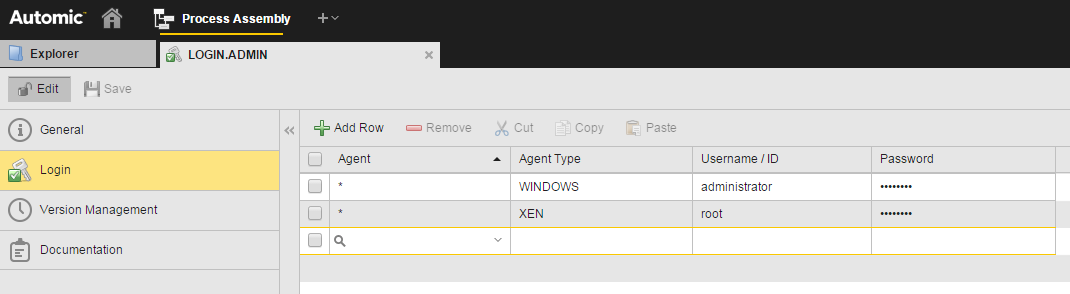
name-label ( RW): xenserver

name-description ( RW): Default install of XenServer

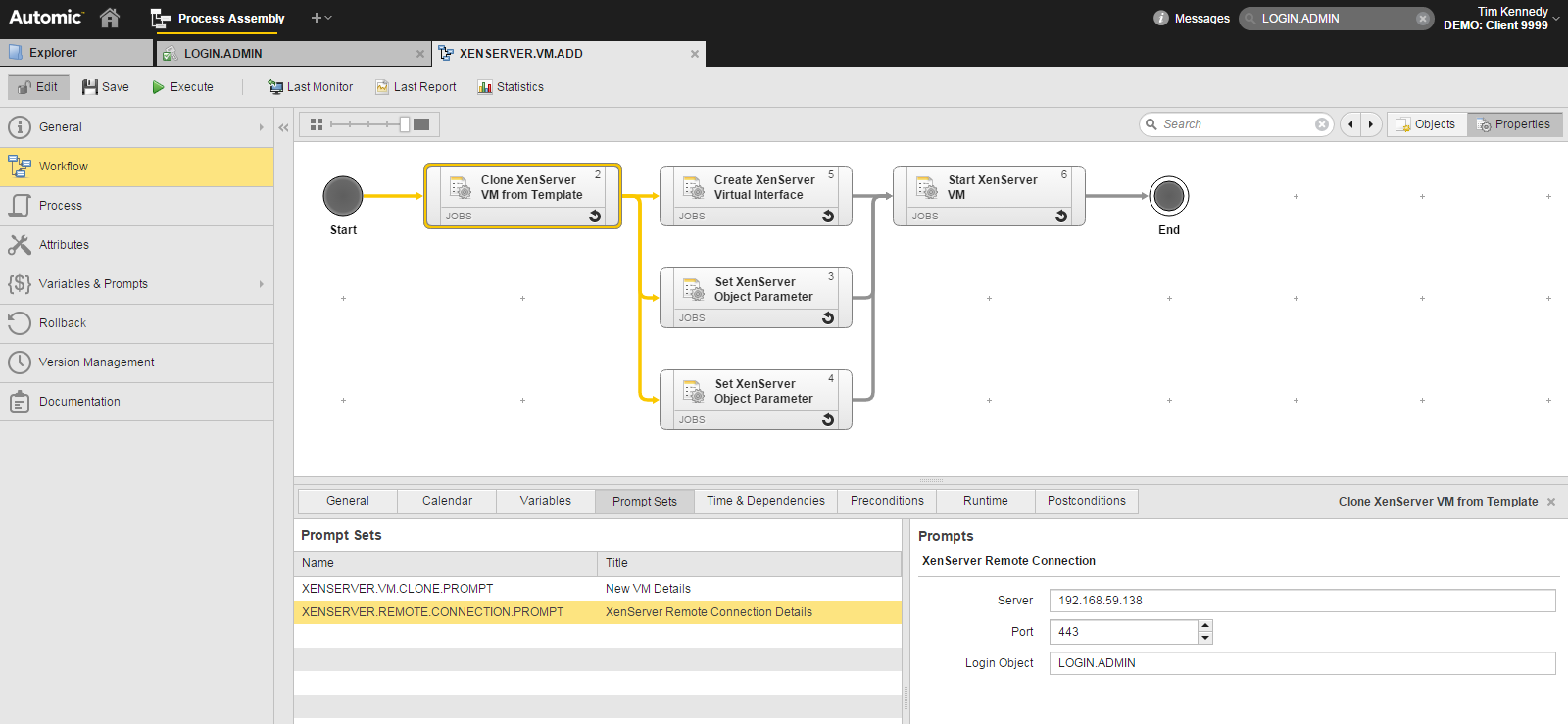
1. In client 0, open UC\_LOGIN\_TYPES and define an entry for XEN.



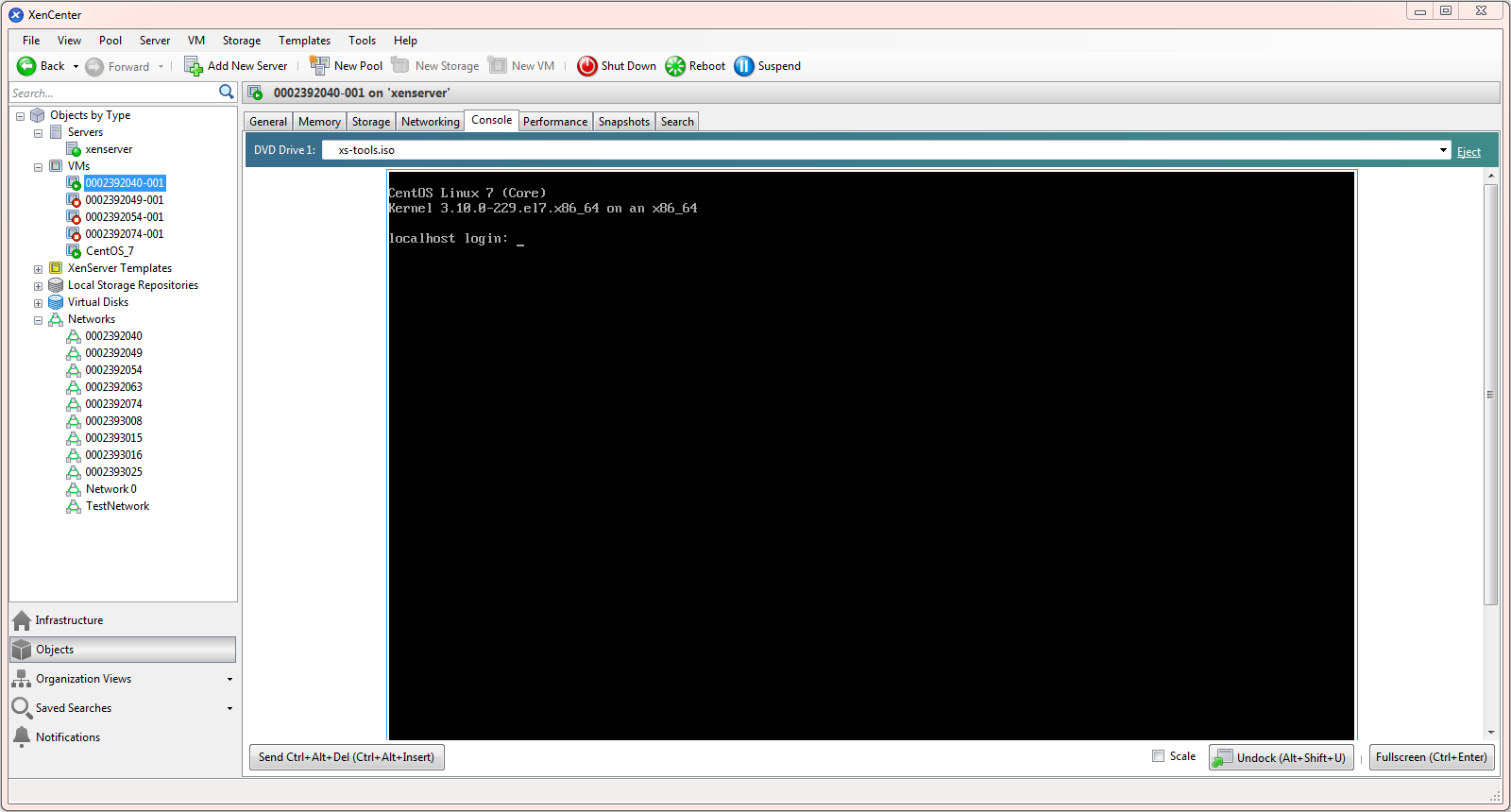
1. In your client, create a LOGIN object containing the username and password required to connect to XenServer. XEN should now be a valid type.



The LOGIN object can now be used to configure each job.



Jobs can be validated via the job report or from Citrix XenCenter



### Jobs

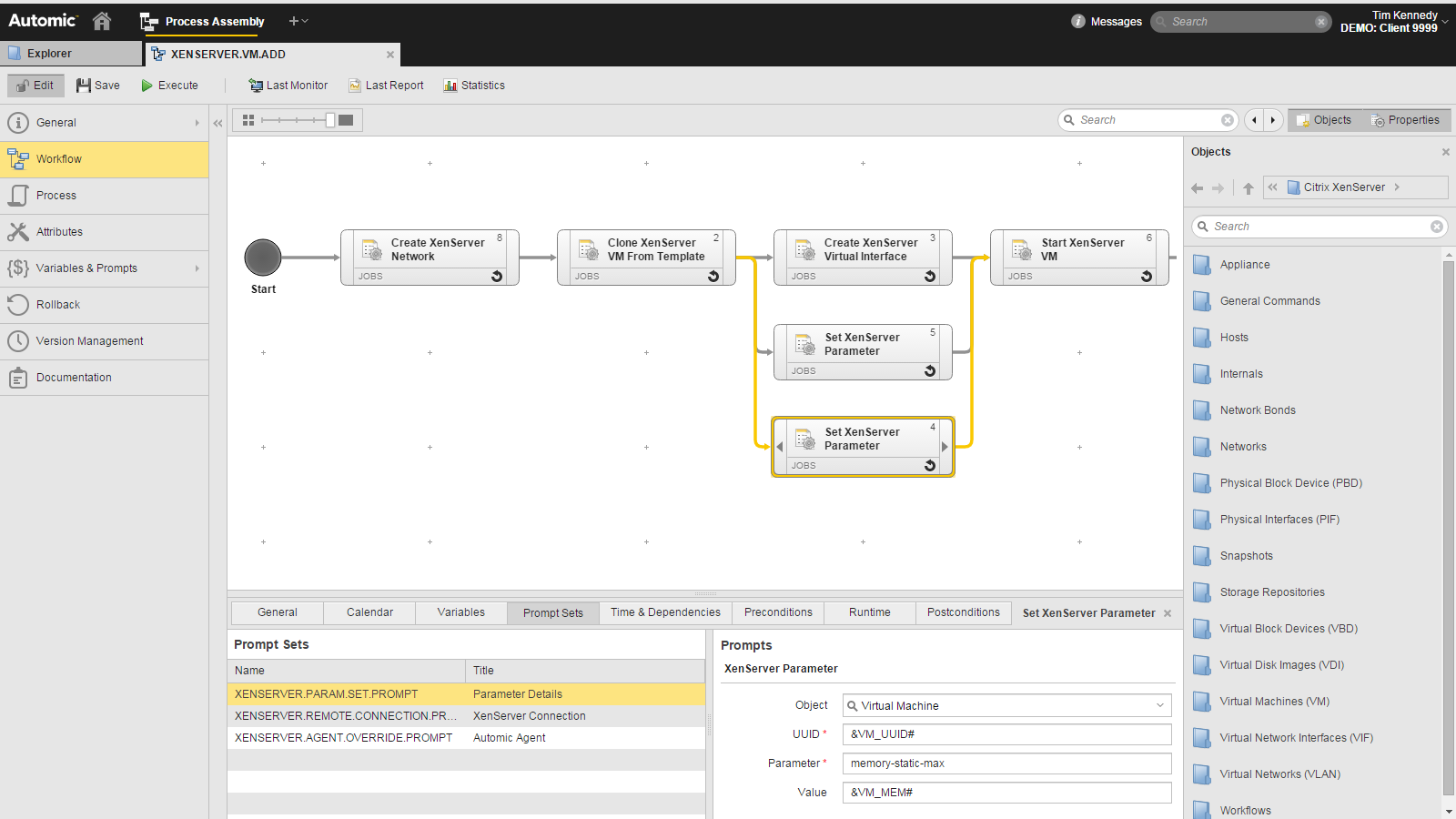
The following jobs are provided:

* Appliance
  + Add VM
  + Create
  + Destroy
  + Shutdown
  + Start
* Bond
  + Create
  + Destroy
  + List
* General
  + Set Parameter
  + Get Parameter Value
  + Wait For Event
* Host
  + Disable
  + Enable
  + Evacuate
  + List
  + Power On
  + Reboot
  + Shutdown
* Network
  + Create
  + Destroy
* Physical Block Device
  + Create
  + Destroy
  + Plug
  + Unplug
* Physical Interface
  + Forget
  + Introduce
  + Plug
  + Reconfigure
  + Scan
  + Unplug
* Storage Repository
  + Create
  + Destroy
  + Forget
  + Disable XAPI Database Replication
  + Enable XAPI Database Replication
* Virtual Block Device
  + Create
  + Destroy
  + Eject Media
  + Insert Media
  + Plug
  + Unplug
* Virtual Disk Interface
  + Clone
  + Copy
  + Create
  + Destroy
  + Forget
  + Resize
  + Snapshot
  + Unlock
* Virtual Interface
  + Create
  + Destroy
  + Plug
  + Unplug
  + VLAN
  + Create
  + Destroy
* Virtual Machine (VM)
  + Clone
  + Destroy
  + Export
  + Import
  + List Attached CD images
  + List Network Interfaces
  + List Disks
  + Migrate
  + Reboot
  + Restart
  + Resume
  + Shutdown
  + Start
  + Suspend
  + Uninstall

### Workflows

The following sample workflows are provided in the XENSERVER\_WORKFLOWS folder:

* XENSERVER.DEMO.VM.ADD - Create Network Container and VM
* XENSERVER.DEMO.VM.DELETE - Delete VM



### Creating Additional Commands

The majority of commands described in the Citrix XenServer Administration Guide have been provided as Automic jobs.

The full list of commands available with xe can be obtained by running the following command:

xe –s *server* -u *user* -pw *password* help –all

The job XENSERVER.CLASS.METHOD can be used as a template to create new jobs.

## Known Issues

* XENSERVER.HOST.LIST job does not populate values into object variables due to bug in set\_script\_var function in AE 11.2. Workaround: Replace the function call with switch/case statements on matched parameter names – uuid, name-field, power-state.
* When creating objects that have a description field e.g. VMs or networks, if spaces are used in the description field, only the first word is used. Workaround: use underscores in place of spaces.