

Kelverion

VM Provision and Management for Azure

Heterogeneous Self-Service Virtual Machine Provisioning

The VM Provisioning and Management Application enables users to create and manage Virtual Machine instances on in the cloud from a Service Request Portal, automated via Microsoft Azure Automation

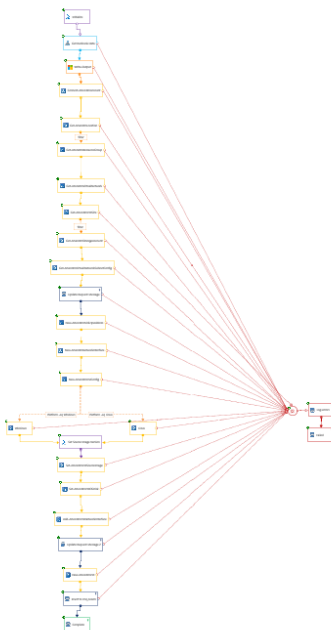
With the power of Cloud it is possible for anyone to stand up a Virtual Machine but first you need access to the Cloud infrastructure and then you need the expertise to build the VM in a stable and secure manner. What happens at the moment is free for all where VMs get built with no control, security or management by IT. What IT need is a Self Service portal they can control which gives everyone the power to build VMs but now in a controlled manner.

We also recognize that for some customers using the Self Service capability of their Service Desk product is either to complex and time consuming or not feature reach. Therefore our application leverages the power of the Kelverion Automation Portal to drive the application from a light weight HTML5 web portal.

The application provides a simple and flexible interface that prompts the user for the required information to provision a virtual machine, while remaining tightly constrained so that the users can only deploy the resources that you want in a configuration that is approved. The simplicity of the portal means that the users are not faced with dealing with the Azure Portal or understanding the complexity of the resources that are required

within Azure before they deploy the virtual machines.

Kelverion_VMPM_30-1-1_Worker_AzureDeployStandardVM



The screenshot shows the 'Automation Portal' interface. At the top, there's a navigation bar with 'Services', 'VM Provisioning and Management', and 'Deploy Standard VM - New Request'. Below this is a 'Fields' section with several input fields: 'VM FQDN' (with a placeholder 'Enter the Fully Qualified Domain Name of the Virtual Machine'), 'Description' (with a placeholder 'Enter the Description of the Virtual Machine'), and 'Infrastructure'. The 'Infrastructure' section has a search bar and a list of options: 'Amazon EC2', 'Microsoft Azure' (selected), 'Microsoft HyperV', and 'VMware vSphere'. Below this is a 'Location' section with a search bar and a list of options: 'East US'. The interface is clean and modern, with a white background and blue accents.

The application is modular and easy to extend. Using the framework that the application provides, it's possible extend the application to deploy and manage on-premise virtual machine, or VM's hosted in different cloud providers from a single easy to use portal.

The flexibility of the application would also allow you to host the Service Catalogue in the Automation Portal and then drive the Change Process via your existing Service Desk, like ServiceNow or BMC Remedy for example.



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New Virtual Machines are added to the Portal CMDB or could be created in your own CMDB such as BMC Atrium, or ServiceNow.

This Solution delivers the following features;

- Self-Service Management Portal
- Modular Runbooks to simplify support and extensibility
- Provisioning of a full range of Microsoft Azure Images
- Management of provisioned VM's
- Consistent and reliable provision of virtual machine
- Management of VM's across multiple subscriptions
- Scheduling of future deployments or management actions

The Self-Service VM Provision offering supports the following Target systems:

Virtualisation Technologies

- Microsoft Azure

Service Catalogue or Change Request

- Kelverion Automation Portal
- Atlassian Jira
- BMC Helix ITSM
- ServiceNow

CMDBs

- BMC Atrium
- ServiceNow

The screenshot displays the Kelverion Automation Portal interface. At the top, the logo and 'Automation Portal' text are visible, along with a welcome message. A navigation bar shows 'Services' and 'VM Provisioning and Management', with a red arrow pointing to 'Stop VM - New Request'. Below this, the 'Fields' section is shown, with a search bar and a list of infrastructure options: Amazon EC2, Microsoft Azure, Microsoft HyperV (selected), and VMware vSphere. A message below the list says 'Please Select the target infrastructure'. The 'Virtual Machine' section follows, with a search bar and a table with columns: FQDN, Description, DeploymentType, and VMTemplateUsed. One row is visible: TestSW.kelverion.local, TestVM. Below the table, there are input fields for 'ActionDate' (format yyyy-mm-dd) and 'ActionTime' (9:28 AM).

SOLUTION IMPLEMENTAION

The application is available on it's own or as a Kelverion lead installation and configuration. In this option you provide Kelverion with remote access to your environment and then a Kelverion consultant will lead the installation and configuration of the application into your environment and you will provide the subject matter expertise around your around your Virtualisation configuration.

The application implementation service is valid for 3 months from application purchase.



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SCOPE OF THE KELVERION JUMP START

The scope of the Kelverion led implementation is defined as:

1. Deployment into a single Azure Automation Account only
2. Integration of application with one Azure Compute Subscription
3. Configuration of the integration to the Kelverion Automation Portal as an Azure Web App
4. An Approved User will enter the Kelverion Automation Portal and request the provision of a virtual machine, thus creating a new Request in the Portal
5. Azure Automation to detect the request and provision a new VM in Azure using an existing Virtual Machine template
6. Azure Automation to mark Request as complete when VM built

You are responsible for:

- Configuring the Azure Subscription, Resource Groups, Automation Account and Compute infrastructure
- Granting Kelverion access to your Azure Subscription
- VM Templates having been built and being available to call from the Azure Portal
- You have manually tested the templates to confirm successful deployment and operation of a guest VM in your Azure Subscription

Kelverion are an established Independent Software Vendor specialising in IT Automation solutions. Kelverion provides software and specialist consultancy solutions for Microsoft Azure and the Microsoft System Center suite.

Find out more at <http://www.kelverion.com>



Cloud & Hybrid Automation Experts