



VM Provisioning and Management Solution for Azure Automation

Controlled self-service virtual machine provisioning and management powered by Microsoft Azure Automation, Kelverion Automation Portal and Kelverion Runbook Studio.

The VM Provisioning and Management Solution enables approved users to request, create and manage Azure virtual machines through a controlled self-service portal, while Microsoft Azure Automation performs the deployment and management actions using consistent, reusable runbooks. The solution removes the need for users to work directly in the Azure Portal and helps IT retain control over VM standards, security, approvals and operational governance.

Designed for Azure Automation and Runbook Studio customers, the solution provides a practical framework for turning repeatable VM requests into governed automation services. It can be used with the Kelverion Automation Portal or integrated with existing service catalogue, change management and CMDB platforms such as ServiceNow, BMC Helix ITSM, Atlassian Jira and BMC Atrium.

The Challenge: Manual VM Management Creates Risk, Delay and Cost

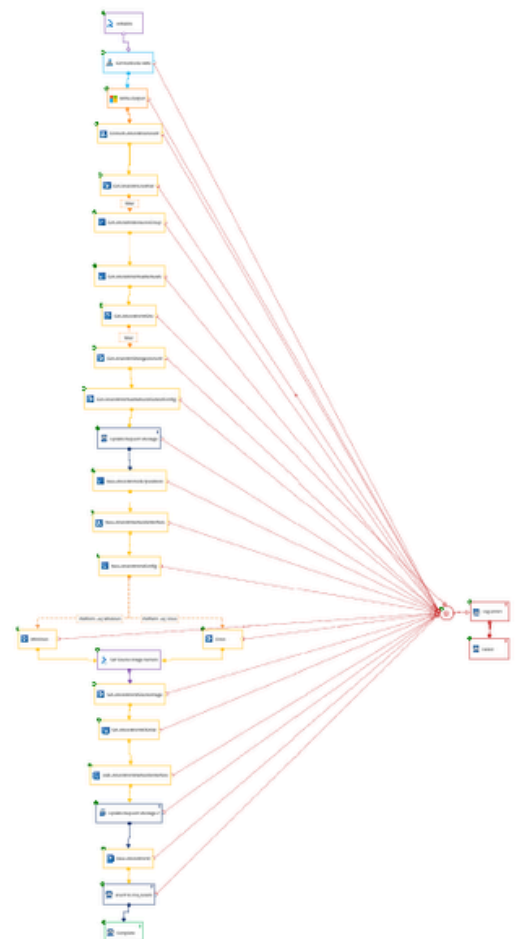
On-premises and Cloud platforms make it easy to stand up virtual machines, but without a controlled request and fulfilment process, this ease of access can quickly create operational problems. Users may create VMs without the right configuration, security controls, cost visibility or lifecycle management, leaving IT teams to manage inconsistent environments after the event

- Uncontrolled VM creation can lead to inconsistent standards, unmanaged resources and increased security risk
- Manual request fulfilment slows down service delivery and consumes skilled administrator time
- Users often need access to complex Hypervisor or Cloud interfaces or specialist knowledge to request the right resources
- Approval, change and CMDB updates can become disconnected from provisioning activity
- Provisioning across multiple subscriptions is difficult to manage consistently without repeatable automation
- VM lifecycle actions such as start, stop, update and scheduled management are often handled manually or through isolated scripts

VM Provisioning and Management Solution is positioned for organisations that want to give users faster access to cloud infrastructure without creating a free-for-all model of VM creation. It provides a controlled self-service layer over Azure Automation, enabling IT to standardise provisioning, management, approval and reporting while improving the request experience for users.

For Azure Automation customers, the solution provides a ready-to-use framework that accelerates VM automation without starting from a blank canvas. For Runbook Studio customers, it demonstrates how low-code graphical runbook authoring can be used to build, maintain and extend service request automation across Azure infrastructure and wider hybrid environments.

Kelverion_VMPM_30-1-1_Worker_AzureDeployStandardVM





Benefits for Azure Automation and Runbook Studio Customers

- **Controlled Self-Service**
Give approved users the ability to request and manage VMs without granting direct administrative access to Azure infrastructure
- **Faster Fulfilment**
Replace manual build steps with repeatable Azure Automation runbooks that can provision and manage VMs consistently
- **Improved Governance**
Align VM requests with approval, change and CMDB processes, so IT keeps visibility and control
- **Reduced Operational Risk**
Constrain requests to approved templates, images and configurations to reduce configuration drift and security exposure
- **Lower Manual Effort**
Free skilled administrators from repetitive provisioning and lifecycle management tasks
- **Multi-Subscription Management**
Support VM deployment and management across multiple Azure subscriptions from a consistent automation framework
- **Low-Code Extensibility**
Use Runbook Studio to maintain and extend VM automation through graphical authoring, collaboration and version control
- **Extensible Hypervisors**
The solution can be extended to manage both on-premises hypervisors like VMware or Microsoft Hyper-V or other cloud services like Amazon EC2
- **Future-Ready Framework**
Extend the model to additional service catalogues, ITSM tools, CMDBs, and other hypervisors through further services engagement

Services VM Provisioning and Management

Name	Description
Deploy Standard VM	Deploy a new Virtual Machine using a Virtual Machine Template
Stop VM	Stop (deallocate) the selected VM
Start VM	Start the selected VM
Restart VM	Restart the selected VM

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Typical Automation Scenarios

- Request and provision a new Azure virtual machine from an approved service catalogue
- Deploy VMs using existing approved Azure VM templates and images
- Manage provisioned VMs through controlled start, stop, restart or other lifecycle actions
- Schedule future VM deployments or management actions to support planned work and cost control
- Record new VMs in the Kelverion Automation Portal CMDB or an external CMDB
- Route requests through an existing ServiceNow, BMC Helix ITSM, Atlassian Jira or other service management process
- Extend the automation framework to support additional VM platforms or hybrid environments



Key Capabilities

- **Self-Service Management Portal**
Provide a simple front end for approved VM requests and management actions
- **Azure Automation Execution**
Use Microsoft Azure Automation to run consistent VM provisioning and management runbooks
- **Modular Runbook Framework**
Simplify support, maintenance and extensibility with modular automation components
- **Azure Image Provisioning**
Provision virtual machines from a full range of approved Microsoft Azure images and templates
- **Provisioned VM Management**
Manage virtual machines after creation through controlled automation actions
- **Multi-Subscription Support**
Manage VM activity across multiple Azure subscriptions
- **Scheduling**
Schedule future deployments or VM management actions
- **Service Desk and CMDB Integration**
Connect the service catalogue and change process with tools such as ServiceNow, BMC Helix ITSM, Atlassian Jira and CMDB platforms
- **Runbook Studio Authoring**
Design, review, version and extend automation runbooks using a low-code graphical authoring experience

Services > VM Provisioning and Management - Azure Automation > Deploy a standard VM to Azure > New Request

Request Fields

Required Field

VM FQDN

Enter the Fully Qualified Domain name of the Virtual Machine

Description

Enter the Description of the Virtual Machine

Location

Search

Location	ResourceGroup	StorageAccountName	DisplayName
West Europe	Development	kurdev	Microsoft Azure - Dev
West Europe	Test	kurtest	Microsoft Azure - Test
West Europe	Production	kurprod	Microsoft Azure - Prod

Virtual Machine Template

Search

ImageDescription	Publisher	Platform	ImageName
2008 R2 SP1	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2008-R2-SP1\Versions2_127.20171217
2008 R2 SP1 etwdata	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2008-R2-SP1-etwdata\Versions2_127.20171217
2012 Datacenter	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2012-Datacenter\Versions3_127.20171115
2012 Datacenter etwdata	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2012-Datacenter-etwdata\Versions3_127.20171115
2012 R2 Datacenter	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2012-R2-Datacenter\Versions4_127.20171217
2012 R2 Datacenter etwdata	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2012-R2-Datacenter-etwdata\Versions4_127.20171217
2013 R2 Enterprise	MicrosoftBizTalkServer	Windows	Publishers\MicrosoftBizTalkServer\VirtualTypes\VMImage\Offers\BizTalk-Server\Stu2013-R2-Enterprise\Versions3_11.158
2013 R2 Standard	MicrosoftBizTalkServer	Windows	Publishers\MicrosoftBizTalkServer\VirtualTypes\VMImage\Offers\BizTalk-Server\Stu2013-R2-Standard\Versions3_11.158
2016 Datacenter	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2016-Datacenter\Versions2016_127.20171217
2016 Datacenter Server Core	MicrosoftWindowsServer	Windows	Publishers\MicrosoftWindowsServer\VirtualTypes\VMImage\Offers\WindowsServer\Stu2016-Datacenter-Server-Core\Versions2016_127.20171218

VM Instance Type

Search

Type	CPU	MemoryGB
Basic_A0	1	0.75
Basic_A1	1	1.75
Standard_A0	1	0.75
Standard_A1	1	1.75
Standard_A2	2	3.5
Standard_B1ms	1	2
Standard_B1s	1	1



Automation Use Cases Included

Automation Area	Included Use Cases	Customer Values
VM Provisioning	Request and provision a new Azure virtual machine from approved templates, images and configuration options	Accelerates fulfilment while ensuring every VM is built to approved standards
Self-Service Request Management	Submit VM requests through the Kolverion Automation Portal or an integrated service catalogue	Improves the user experience while keeping IT in control of access and available options
VM Lifecycle Management	Manage provisioned VMs using controlled automation actions such as start, stop, restart and other approved operations	Reduces repeated manual administration and supports standard operating processes
Multi-Subscription Management	Provision and manage VMs across multiple Azure subscriptions	Provides a consistent automation model across complex Azure estates
Scheduling	Schedule future deployments or management actions	Supports planned change windows, operational efficiency and cost optimisation
CMDB Update	Add newly created VMs to the Kolverion Automation Portal CMDB or an external CMDB such as ServiceNow or BMC Atrium	Improves asset visibility and supports ongoing governance and operational support
Service Desk Integration	Drive change and request processes through ServiceNow, BMC Helix ITSM, Atlassian Jira or other service management tools	Connects automated fulfilment with existing IT governance and approval workflows
Extension to Hybrid Platforms	Extend the framework to support on-premises VMs or other cloud providers as part of a services engagement	Protects the customer's automation investment and supports future platform expansion



Jump Start Service

Kelverion can provide a led implementation service to help deploy and configure the VM Provisioning and Management Solution in the customer environment. In this option, the customer provides remote access and subject matter expertise around the Azure and virtualisation configuration, while a Kelverion consultant leads the installation and configuration of the solution. The implementation service is valid for three months from solution purchase.

The scope of the Kelverion-led implementation is defined as:

- Deployment into a single Azure Automation Account
- Integration of the solution with one Azure Compute Subscription
- Configuration of the integration to the Kelverion Automation Portal
- An Approved User will enter the Kelverion Automation Portal and request the provision of a virtual machine, creating a new Request in the Portal
- Azure Automation will detect the request and provision a new VM in Azure using an existing Virtual Machine template
- Azure Automation will mark the Request as complete when the VM has been built

Customer responsibilities are:

- Configuring the Azure Subscription, Resource Groups, Automation Account and Compute infrastructure
- Granting Kelverion access to the Azure Subscription
- Ensuring VM templates have been built and are available to call from the Azure Portal
- Manually testing the templates to confirm successful deployment and operation of a guest VM in the Azure Subscription

Why Kelverion?

Kelverion specialises in Microsoft Automation and helps organisations simplify IT operations across Azure Automation, Runbook Studio, PowerShell, Power Automate, Logic Apps and System Center Orchestrator. Kelverion solutions are designed to wrap existing operational systems and service desks, enabling customers to automate cross-functional IT processes without replacing the tools they already use.

- Experts in Microsoft Automation with deep Azure Automation and Runbook Studio experience
- Ready-built automation solution packs that reduce time to value
- Smart integrations with enterprise service desk, CMDB and management platforms
- Low-code and no-code approaches that broaden automation ownership across IT teams
- Consultancy and implementation support to help customers deploy, configure and extend automation successfully

Ready to Bring Control, Speed and Consistency to Azure VM Provisioning?

Speak to Kelverion about VM Provisioning and Management Solution for Azure Automation and Runbook Studio. Arrange a demonstration, discuss the Jump Start service and see how quickly your organisation can move from manual VM fulfilment to secure, governed self-service automation.

For more information contact our helpful team today

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