

# Cloud & IT Automation

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## BENEFITS

- Leverage Nutanix-developed intellectual property to accelerate adoption of Cloud and automation solutions
- Reduce time to deliver workloads and applications from weeks to minutes
- Reduce operational overhead and empower end users by enabling self-service provisioning of key applications
- Follow best practice recommendations to build a robust application automation solution
- Mitigate risk and accelerate time to value by leveraging Nutanix experienced consultants
- Gain knowledge from our comprehensive project documentation and a robust knowledge transfer session

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## OVERVIEW

The Cloud & IT Automation service focuses on collaborating with customers to assess, design and build application-centric infrastructure automation and lifecycle management (LCM) platforms. This service streamlines and accelerates your journey to build a private or hybrid cloud solution.

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## SERVICE SCOPE

Develop the requirements, engineer the design and build a cloud automation solution based on Nutanix Calm. This service offers 3 different sizes and scopes depending on customer needs:

### **Starter Service:**

For customers who want to establish a basic Infrastructure as a Service (IaaS) that accelerates time to value when adopting Nutanix as your automation platform

### **Starter Service includes:**

- Nutanix Services architecture data gathering
- Network configuration requirements gathering and impact assessment
- Nutanix Calm architecture design for one development and one production environment
- Overview of Agile development lifecycle, code repositories and release management processes for infrastructure automation projects
- Basic show-back functionality enabled on-premise with Nutanix Beam
- Self-Service portal design based on Calm Marketplace
- RBAC via Calm project membership definition
- Automation of one Linux and one Windows Operating System (OS) deployment based on standard Nutanix Services Blueprints
- Integration with AD/LDAP authentication, DDI and supported backup services
- Notification to requestor via email with provisioning details and access instructions

### **Pro Service:**

For customers who want additional IaaS blueprints (e.g., web/application servers, standalone database servers, etc.) and the ability to provision blueprints to a public cloud provider such as AWS, Azure or GCP.

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## OPTIONAL ADD-ON SCOPE

- Nutanix Flow  
Micro-segmentation design and integration
- Nutanix Objects storage design and integration
- Nutanix Era DBaaS integration (Era design and build is a prerequisite)
- ServiceNow integration for service request management

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## PREREQUISITES

- Existing and functional Nutanix platform running latest versions of AOS and AHV or ESXi
- Appropriate Nutanix product licenses
- Nutanix-supported Windows or Linux image for application blueprint development
- (Optional) Public cloud provider account and access permissions (e.g., AWS, GCP or Azure)
- Full system backups before deployment

In addition to the foundational work completed with the Starter service, the Pro service covers cloud-based Beam requirements and additional integrations with your pre-existing software-defined load balancer (e.g., F5, HAProxy, Nginx).

### Pro Service includes:

- Starter service
- Automate 2 3-tier application stacks for web deployments, one based on a LAMP stack and one on a WISA stack
- Deploy blueprints on up to one public cloud provider (AWS, Azure, or GCP) leveraging Nutanix Calm
- Basic cost governance for up to one public cloud provider leveraging Nutanix Beam
- Integrate with up to one REST API-enabled load balancer solution

### Ultimate Service:

For customers who want to leverage Nutanix Karbon to quickly get started with Kubernetes container orchestration in your environment. The Ultimate service leverages Nutanix Calm automation in your CI/CD pipelines.

### Ultimate Service includes:

- Starter service
- Pro service
- Deploy Nutanix Karbon
- Automation and integration of up to 5 CI/CD pipeline APIs (see Blueprints)

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## AVAILABLE BLUEPRINTS

### Starter

Microsoft Windows Server 2016 or later and supported Linux OS as listed on the Nutanix Compatibility Matrix

**Note:** Gold images and ISOs to be provided by customer

### Pro

LAMP stack (Apache v2.4.43, MySQL v7, PHP 7.4)

WISA (IIS 10.0, MSSQL 2016, ASP.NET & .NET Framework 4.8)

### Ultimate

Atlassian BitBucket 7.x

Atlassian Jira 8.x

Atlassian Confluence 7.x

Atlassian Fisheye 4.x

Atlassian Crucible 4.x




JFrog Artifactory 7.x

Jenkins X 2.1.x

**NOTE:** Customer to provide instances for BitBucket, Jira, Confluence, Artifactory, Fisheye and Crucible

All product licenses must be purchased separately and are not included.

## DELIVERABLES

	Starter 	Pro 	Ultimate 
<b>Assess and Design</b>			
Project management (weekly schedule, status reports and meetings)	✓	✓	✓
Nutanix Automation Enablement Workshop	Up to 1 day	Up to 2 days	Up to 2 days
Agile development tools and process overview (up to 1 day)	✓	✓	✓
Environmental assessment and sizing workshops (Dev/Test and Prod)	✓	✓	✓
Requirements gathering workshop *	Up to 1 day	Up to 1 day	Up to 2 days
Design Workshop	Up to 1 day	Up to 1 day	Up to 2 days
Nutanix Calm requirements and design document for up to 2 environments (e.g., Dev/Test and Prod)	✓	✓	✓
<b>Deploy</b>			
Nutanix Calm build	✓	✓	✓
Calm blueprints ±	Up to 2 base OS images	+ 2 x 3- Tier App	+5 x CI/CD API Endpoints
Self service via Calm Marketplace	✓	✓	✓
Nutanix Beam integration for show-back relating to private cloud costs	✓	✓	✓
Nutanix Beam integration with one cloud provider to assess and reduce public cloud spend		✓	✓
Multi-cloud integration to deploy blueprints to one cloud provider (AWS, Azure, or GCP)		✓	✓
Kubernetes architecture and build with Nutanix Karbon			✓
Maximum duration °	2 weeks	4 weeks	8 weeks

\* Some requirements gathered may not be included in the scope of delivery. In these cases, Nutanix consultants advise customers in writing via the requirements document by marking all requirements as either in or out of scope. Nutanix can provide a separate engagement to elaborate the solution to address any additional requirements.

± Blueprints are based on standardized artifacts and blueprints as listed below, allowing for up to 20% variation from standardized blueprints (measured in lines of code modified). See below for a list of available blueprints. Nutanix can provide a separate engagement for additional blueprints and/or elaborate existing blueprints that vary by more than 20% from its standard version.

° Engagement is delivered in a contiguous manner and is not to exceed maximum duration specified.

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## DETAILS AND ASSUMPTIONS

Microsoft Windows	Automate the provisioning of a single Windows virtual machine (VM) from a base disk image, configure naming and networking, join it to one AD domain and assign user/group access rights to this workload
Linux	Automate the provisioning of a single Linux VM from a base disk image, configure naming and networking, join it to one LDAP domain and assign user/group access rights to this workload
LAMP	Automate the provisioning of a single blueprint to deploy a web application infrastructure comprising 3 VMs: one Apache web server, one MySQL server and one PHP/App server. VMs are based on a Linux-based OS image provided by you
WISA	Automate the provisioning of a single blueprint to deploy a web application infrastructure comprising 3 VMs: one SQL server, one .NET/App server and one IIS web server. VMs are based on a Windows-based OS image provided by you
BitBucket	Automate the integration of an existing BitBucket instance API to create a new project and code repository, create a local access group, assign users to the group, assign the group to the project and assign an administrator to the project
Jira	Automate the integration of an existing Jira instance API to create a new project by cloning a template/source project, create a local access group, assign users to the group, assign the group and assign an administrator to the project
Confluence	Automate the integration of an existing Confluence instance API to create a Space and a local access group, assign users to that group, assign that group and assign an administrator to the space
Artifactory	Automate the integration of an existing Artifactory instance API to create a new virtual or local repository, configure repository type and class, configure remote repository with target remote URL, add user permissions and assign an administrator to the repository.
Fisheye	Automate the integration of an existing FishEye instance API to connect to an existing Jira and BitBucket project for reporting
Crucible	Automate the integration of an existing Crucible instance API to connect to an existing Jira and BitBucket project for requesting, performing and managing code reviews
Crucible Jenkins X	Automate the integration of Nutanix Karbon Kubernetes clusters with Jenkins X pipelines

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## TERMS AND CONDITIONS

This document contains the entire scope of the service offer. Anything not explicitly included above is out of scope. This service offer is subject to the Nutanix Services General Terms and Conditions that can be viewed at <https://www.nutanix.com/support-services/consulting-services/terms-and-conditions>



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