
INSIGHTS | CASE STUDY

NUTANIX

NETWORK INFRASTRUCTURE

# Automating Infrastructure Provisioning with Nutanix

*WEI Leads Life Sciences Organization to Automate VM Provisioning and Scale Infrastructure*

**SUMMARY:** A Massachusetts-based pharmaceutical enterprise undergoing a transition from VMware to Nutanix needed to modernize how it provisioned and managed virtual machines. Existing processes relied heavily on manual input, making deployments time-consuming and difficult to scale.

WEI partnered with the life sciences leader to design an automated provisioning framework using Nutanix-native tools and API-driven workflows. By standardizing VM creation and embedding automation into infrastructure operations, the organization achieved faster, more consistent deployments while reducing manual effort and risk.

**CHALLENGE:** As the organization expanded its Nutanix environment, manual provisioning processes became increasingly difficult to sustain.

Creating virtual machines required administrators to manually input configuration details, resulting in time-intensive workflows and inconsistent builds across environments. As demand increased, these inefficiencies slowed deployments and added strain on IT resources.

The risk of human error also grew. Variations in configuration made it harder to maintain standardization across systems.

At the same time, the organization needed a solution that could support future infrastructure initiatives. Without a scalable and repeatable provisioning model, it would be difficult to fully realize the benefits of its Nutanix investment.

**SOLUTION:** WEI began by evaluating the organization's existing provisioning workflows and identifying opportunities to leverage built-in Nutanix capabilities for automation.

The foundation of the solution centered on Nutanix blueprints and standardized VM templates. Working closely with Nutanix, WEI developed production-ready images and created blueprints that could deploy virtual machines based on user-defined inputs. These blueprints incorporated automated configuration steps, ensuring each system was provisioned according to organizational standards from the start.

To extend this capability, WEI developed a PowerShell-based automation layer that enabled bulk VM creation from structured data. By reading from .csv files and integrating with the Nutanix Prism Central API, the solution could automatically trigger blueprint deployments for multiple systems at once.

Additional automation was implemented through post-deployment tasks, allowing configurations, agents, and system settings to be applied automatically after each VM was created. Logging and reporting capabilities were also leveraged.

WEI deployed the solution across build servers at each Nutanix site, ensuring accessibility across the organization's infrastructure.

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*"By combining Nutanix blueprints with API-driven automation, we were able to eliminate manual provisioning and create a consistent, scalable approach to infrastructure deployment."*

***— Dan Perrinez, WEI Solutions Architect***

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**OUTCOMES:** Virtual machines can now be deployed quickly and consistently, reducing the time required to provision new environments and eliminating many of the manual steps previously required.

Standardization across deployments has improved reliability, ensuring that all systems are configured according to organizational requirements from the moment they are created. At the same time, automation has reduced the risk of human error and freed IT teams to focus on higher-value initiatives.

**Key outcomes include:**

- Automated VM provisioning using Nutanix blueprints and API-driven workflows
- Significant reduction in manual effort and deployment time
- Improved consistency and standardization across environments
- Reduced risk of configuration errors and operational variability
- Scalable framework to support future Nutanix and automation initiatives

## *Talk to WEI today*

To learn how WEI can help modernize your DevOps environment and accelerate software delivery, contact us for a consultation.