

# Advanced Administration & Performance Management 5.5



## Description

This course features comprehensive coverage of performance management for Nutanix clusters and details how to improve datacenter performance. You'll learn through hands-on labs how to monitor system performance as well as performance tuning. Also covered is advanced networking and storage to help optimize datacenter administration.

This course explains in detail how to use the major Acropolis services such as Volumes and Files. The course also explains how to define and manage assets and applications using Calm, including how to connect to clouds, automation of the Life Cycle Management (LCM) application, and how to implement and configure Self Service Portal and governance.

You will learn how to take advantage of Flash mode to improve system performance, as well as how to effectively clone and delete VMs, move them between storage containers, and how to manage VMs (sizing and migration).

This course also covers Data Protection solutions such as Metro Availability with Witness. Advanced management using the new features of Prism Central and the command line are also covered in detail. This includes how to take advantage of machine learning with entity management and resource optimization as well as how to plan for future growth using Scenario Management using Prism Pro.

## Schedule a class

Contact your Nutanix representative to schedule a private class at your location. Private classes may also be customized to suit your organization's needs.

Nutanix Authorized Training Centers offer scheduled dates at locations around the globe for individual students.

For additional information on scheduling, please contact [training@nutanix.com](mailto:training@nutanix.com) or visit: [www.nutanix.com/education](http://www.nutanix.com/education)

## Audience

IT administrators, architects, and business leaders who already manage Nutanix clusters in the datacenter, but who would like more in-depth knowledge of Nutanix datacenter administration.

Anyone seeking preparation for the Nutanix Certified Advanced Professional (NCAP) certification (in development).

## Pre-Requisites

- *Nutanix Enterprise Cloud Administration 5.5 (ECA 5.5)* classroom training or NCP Certification
- Basic knowledge of Nutanix datacenter administration techniques
- Familiarity with traditional virtualization storage architectures
- Comfortable with Linux command line interface

## Course Details

- **Duration:** 4 days
- **Learning method:** Instructor-led, in-person with hands-on labs

## Course Outline

1. Administering Advanced Virtual Machine Deployments
2. Implementing Business Continuity and Disaster Recovery
3. Configuring Advanced Networking
4. Enabling and Customizing Security Services
5. Managing Acropolis File and Block Services
6. Administering Prism Central and Prism Pro
7. Managing and Optimizing Performance
8. Utilizing Advanced Management Interfaces

## During this course, you will learn to:

- Monitor datacenter performance and manage components to optimize system performance.
- Set up and configure advanced VM administration features such as:
  - Self Service Restore
  - Configuration of Nutanix Guest Tools (NGT)
  - Working with Nutanix storage containers to delete and move vDisks
- Implement advanced solutions for business continuity and data protection in Nutanix datacenters such as:
  - Cloud Connect
  - Metro Availability
  - Advanced API
  - REST API V3
- Configure advanced networking features including:
  - Bridge and uplink management
  - Load balancing across multiple NICs
  - Network visualization
  - Physical switch topology and configuration
- Customize Nutanix security features such as:
  - Creating and installing SSH keys for Prism Lockdown Mode
  - Two-factor authentication
  - Using Security Technical Implementation Guides (STIGs)
- Eliminate the requirement for a third-party file server when sharing files across user work stations or VMs (Nutanix Files), or when designing a scale-out storage solution (Nutanix Volumes).
- Use Prism Central to:
  - Identify and fix cluster health problems
  - Exploit machine learning for entity management and resource optimization
  - Plan for future growth
  - Manage assets and applications using Calm, Life Cycle Management (LCM), and Self-Service Portal
- Practice advanced datacenter management procedures using hands-on labs.
- Get the most out of Nutanix systems by maximizing configuration and operation for peak efficiency.
- Guarantee business continuity through advanced data protection strategies.
- Validate your new skills by preparing for and completing the Nutanix Certified Advanced Professional (NCAP) certification (in development).

## Terms and Conditions

- Customer may purchase training seats in advance of scheduling course dates.
- Customer may not cancel purchased training seats and all amounts paid are non-refundable.
- Customer may reschedule courses with no less than 15 days written notice to Nutanix. Rescheduling fees may apply.
- Customer may substitute a student with no less than 5 days written notice to Nutanix. Rescheduling fees do not apply to substitutions.
- Training seats must be consumed within 6 months of purchase. Failure to utilize the training seats within the 6 months of purchase shall result in forfeiture of all fees paid for such seats. Extensions may be available on a case by case basis.
- Nutanix reserves the right to cancel any scheduled course due to minimum enrollment not being achieved, instructor illness, or other events outside of its control.
- Cancellation notices will be sent to enrolled students by email with rescheduling information and alternative training options.