

EXAM BLUEPRINT GUIDE

# Nutanix Certified Professional End User Computing (NCP-EUC) 6.10 Exam



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### Disclaimer:

The Nutanix Certified Professional - End User Computing (NCP-EUC) 6.10 Exam Blueprint Guide provides an overview of the objectives that must be mastered to achieve the NCP-EUC 6 credential. Nutanix does not offer any guarantees that this guide will ensure a candidate's success in achieving the NCP-EUC 6 certification. All information in this guide is subject to change at any time at the sole discretion of Nutanix.

# 1. The Exam

## 1.1 Purpose of Exam

The Nutanix Certified Professional - End User Computing (NCP-EUC) 6.10 exam will measure a candidate's ability to deploy, monitor, administer, troubleshoot, and maintain end user computing environments utilizing Nutanix technologies. Successful candidates demonstrate mastery of these skills and abilities.

## 1.2 Number of Questions

The NCP-EUC 6.10 exam consists of 75 multiple-choice and multiple-response questions.

## 1.3 Pricing

The cost for the NCP-EUC 6.10 exam is \$199 USD.

## 1.4 Passing Score

The passing score for this exam is 3000, using a scaled scoring method. The scale is from 1000-6000. Scaled scores are calculated using a mathematical formula that considers a variety of factors, including the number and type of exam questions included in a specific version of the exam.

Because this combination may vary in different versions of the same examination, scaled scores provide a fair score for everyone based on the version of the exam taken.

## 1.5 How Objectives Relate to Questions on the Exam

Objectives summarize what the test is designed to measure. Objectives are developed by Exam Developers and Subject Matter Experts based on identified tasks that relate to the job of deploying, monitoring, administering, troubleshooting, and maintaining end user computing environments utilizing Nutanix technologies.

Once the initial development process is complete, these objectives are verified using an external group of individuals in the actual job role. Finally, a number of questions is determined for each objective, which relates directly to the criticality of the task in the job role.

## 1.6 Languages

The exam is available in English and Japanese.

## 1.7 Time Limit

The time limit for the exam is 120 minutes.

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## 1.8 Scheduling and Taking the Exam

This exam is delivered via remote proctoring or in-person at select test centers.

If you select remote proctoring, after registering for the exam and providing valid identification, you will receive information on how to take the exam from your location using a web browser. Because the exam is remote proctored, you will be provided with a locked down, monitored, secure exam experience.

If you select in-person testing, you will be able to select a test center near you. On the day of the exam, you will need to arrive at the test center 15 minutes prior to the exam start time with a valid government-issued ID.

## 1.9 Certification Tracks

The NCP-EUC 6.10 exam is a core component of the Nutanix End User Computing track. Passing this exam results in achieving the NCP-EUC 6 certification.

The certification requires a passing score on the exam. While it is not required that you attend a course, Nutanix provides training that covers the objectives on the exam. Details on the recommended training course are provided in [Section 4](#).

## 1.10 Retake Policy

If a candidate fails an exam on the first attempt, he or she is allowed two additional attempts. There is a seven-day waiting period between attempts. Like the first attempt, these are paid for individually and Nutanix recommends that you allow sufficient time between attempts to be properly prepared and to maximize your chances for success.

Please note: After three attempts, you will be unable to take the exam for 60 days, after which you can email [university.nutanix.com](mailto:university.nutanix.com) and request that your attempts are reset. Nutanix recommends you utilize the time to thoroughly review this guide and the related references and/or take the recommended training for this exam.

## 1.11 Exam Security

Nutanix reserves the right to refuse certifying a candidate who violates exam security policies. This includes copying and redistribution of exam material, using any type of study material during the exam itself, attempting to photograph exam items and taking an exam using a false identity. Your identity is captured as part of the exam registration process and must be validated before you will be allowed to take the exam.

## 1.12 Recertification

Once you have passed the Nutanix Certified Professional – End User Computing 6.10 exam and achieved the NCP-EUC 6 certification, it will remain valid for three years.

To maintain your certification status, you must either renew your existing certification, pass an equivalent NCP-level exam within another certification track, or pass the NCM-MCI exam.

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### 1.13 Benefits of Certification

- Digital badge from Credly that you can share on social media
- Access to the Certification store at <http://store.nutanix.com> for shirts, mugs, and more
- Opportunity to participate as a SME to develop future exams
- Discount on attending Nutanix .NEXT

## 2. Intended Audience

A candidate for the NCP-EUC 6.10 exam and NCP-EUC 6 certification has approximately 6-12 months of experience administering EUC technologies in a Nutanix environment and 18-24 months of experience in desktop, virtualization, and network support.

Successful candidates are typically IT professionals who have experience in deploying, configuring, and managing Nutanix End User Computing Environments.

Finally, the successful candidate will most likely have taken training courses, such as the Nutanix End User Computing Administration (NEUCA) course.

## 3. Objectives Covered in the NCP-EUC 6.10 Exam

### 3.1 Introduction

It is recommended that candidates have the knowledge and skills necessary for deploying, monitoring, administering, troubleshooting, and maintaining basic end user computing environments utilizing Nutanix technologies before attempting the NCP-EUC 6.10 exam. It is also recommended that the candidate complete the training course described in [Section 4](#) prior to taking the exam.

For the NCP-EUC 6 certification, candidates will be tested on the following software versions:

- AOS: version 6.10
- Prism Central: version pc2024.2

### 3.2 Objectives

Prior to taking this exam, candidates should understand each of the following objectives. Each objective is listed below; along with related tools the candidate should have experience with, and related documentation that contains information relevant to the objective. Please note that some documentation requires access via the Support Portal. Information on creating an account for use with the Support Portal can be found [here](#).

All objectives may also be referenced in other product documentation not specifically highlighted below. The candidate should be familiar with all relevant product documentation or have the equivalent skills.

#### Section 1 – Deploy an End User Computing Environment

Objective 1.1: Allocate desktops or published apps to users

Knowledge

- Describe the process to assign desktops to users
- Determine the resources required to publish desktops to knowledge workers
- Determine provisioning methodology for desktop deployment
- Determine requirements necessary to publish desktops and apps

References

- [Citrix Desktop and Application Delivery Overview](#)
- [Nutanix Flow Network Security for Citrix Solutions](#)
- [Security Design Considerations](#)

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- [Omnissa Horizon Overview](#)
  - [Omnissa Horizon Delivery Options](#)

## Objective 1.2: Determine the optimal Nutanix configuration

### Knowledge

- Identify proper storage container configurations based on workload type
- Given a scenario, estimate load and workload sizing
- Optimize cluster performance to adhere to business requirements and maximize total cost of ownership (TCO)
- Given a scenario, identify when to use Nutanix core components
  - Files
  - Smart DR
  - Shadow clones
  - Intelligent Operations
  - Flow (network microsegmentation)

### References

- [Nutanix Files VDI Sync](#)
- [Best Practices for Securing Citrix Virtual Apps and Desktops](#)
- [Shared GPU](#)
- [Citrix Desktop Delivery Solutions - Nutanix Storage](#)
- [Citrix Desktop Delivery Solutions - Hypervisor](#)
- [VDI Implementation on HCI](#)

## Objective 1.3: Manage and understand policies and Group Policy Objects

### Knowledge

- Distinguish when to use GPO, local policy, or vendor policy in an environment
- Explain how policies affect workload types
  - Configuring session timeouts, disconnect timeouts, and app lockdown



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## References

- [Profile Management and User Data](#)
- [OS Optimization](#)
- [Microsoft License Server Redundancy](#)
- [Virtual Machine Antiaffinity](#)

## Objective 1.4: Manage the broker architecture

### Knowledge

- Given a scenario, discuss the functions of the brokers
- Given business requirements, identify the location of the brokers

## References

- [Desktop and Application Brokering](#)
- [End-User Computing Broker Software High Availability Requirements](#)
- [Core Infrastructure Design](#)

## Objective 1.5: Manage image catalogs

### Knowledge

- Given a scenario, identify the process to update image catalogs
- Given a scenario, update system requirements for a given catalog
- Given a scenario, update machine catalog
- Given a scenario, build a gold image
  - Persistent vs non-persistent
  - Desktop vs server OS
  - Provisioning methodology
- Given a scenario/use case, explain application layering impact(s)
- Explain the positive and negative impacts of optimizing gold images

## References

- [Setting Up Your Environment for Benchmark Testing](#)
- [Base Images](#)
- [After Installing or Upgrading the Plug-In](#)

- [Layering Solutions](#)
- [Windows 11 on Nutanix AHV](#)

## Objective 1.6: Determine how to secure the environment

### Knowledge

- Given a scenario, determine the steps to increase security
  - SSL certificates
  - Cluster lockdown
  - Security Configuration Management Automation (SCMA) framework
  - VLAN-based, data driven segmentation
  - Data-at-rest (DAR) encryption
  - Hardening AHV
  - Hardening Controller VM
  - Secure boot (vTPM)
  - Nutanix Files hardening
- Given a scenario, implement RBAC configuration

### References

- [SSL Certificate Management](#)
- [Monitor Mode](#)
- [CVM Security Hardening](#)
- [AHV Security Hardening](#)
- [Controlling Cluster Access](#)
- [Data-in-Transit Encryption in Prism Central](#)
- [Data-in-Transit Encryption in Prism Element](#)
- [Creating AHV VMs with vTPM \(aCLI\)](#)
- [Controlling User Access \(RBAC\)](#)
- [SCMA Implementation](#)
- [RHEL 8 STIG Implementation in Nutanix Controller VM](#)

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## Section 2 – Monitor an End User Computing Environment

### Objective 2.1: Monitor infrastructure Health

#### Knowledge

- Describe possible causes and remediation for alerts/events
- Describe possible causes of desktop connectivity failures
- Describe possible causes for logon performance issues

#### References

- [Profile Management and User Data](#)
- [Security Logging](#)
- [Alert Details](#)
- [Capacity Runway does not show any output on some clusters](#)
- [Data Locality](#)
- [Performance and Scalability with Data Locality](#)

### Objective 2.2: Create and analyze reports

#### Knowledge

- Demonstrate the ability to create and export reports
  - Performance
  - Capacity
  - Usage
- Describe potential components for report generation
  - Storage containers
  - Nodes
  - VMs
- Interpret generated reports

#### References

- [Chart Management](#)
- [Configuring Report Settings](#)
- [Managing a Predefined System Report Configuration](#)

- [Interpreting CPU Ready values](#)

## Section 3 – Manage EUC Workloads

### Objective 3.1: Deploy and manage workloads

#### Knowledge

- Given a business requirement, identify the necessary workload type
- Given a scenario, illustrate appropriate provisioning
  - Steps
  - Methodology
  - Nutanix best practices (optimizing workloads)
- Given a scenario, explain Citrix AHV plugins, what they do, and the requirements of each

#### References

- [VDI Delivery Methods](#)
- [Profile Management and User Data](#)
- [App Layering on Nutanix](#)
- [Provisioning Best Practices](#)
- [Delivery Solutions on Nutanix AHV](#)
- [Citrix Machine Creation Services: Persistent Full-Clone](#)
- [Installing or Upgrading and Registering the Nutanix AHV Plug-in for Citrix](#)
- [Nutanix Storage for Desktop Delivery Solutions](#)

### Objective 3.2: Perform upgrades, updates, and migrations

#### Knowledge

- Describe the steps involved in updating desktop (standard/graphical) groups
  - Patching (upgrading OS or applications)
  - Adding additional applications
  - Drivers and agents
- Summarize recommended order for end-to-end upgrade of infrastructure

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## References

- [Nutanix Lifecycle Manager and Replica VMs](#)
- [Migrating Pooled or Nonpersistent MCS Workloads](#)
- [General Considerations for Migrating VDI Workloads to AHV from ESXi](#)
- [Omnissa Horizon on Intel with Nutanix Using vSphere](#)
- [Hardware - Product intermixing restrictions in Nutanix Clusters](#)
- [NVIDIA GRID Host Driver for AHV](#)

## Objective 3.3: Configure EUC storage

### Knowledge

- Define possible options for storage
  - Containers
  - Policies
- Identify the steps required when configuring storage

## References

- [Compression](#)
- [Capacity Reservation Best Practices](#)
- [Citrix on Nutanix Core Components Best Practices](#)

## Objective 3.4: Evaluate DR options within the environment

### Knowledge

- Given a scenario, determine recommended DR for a highly available profile solution
- Given a business requirement, differentiate between the available options for DR
- In the event of a failure, determine how to recover based on the configuration

## References

- [Desktop as a Service on Nutanix Cloud Clusters on AWS Disaster Recovery Planning](#)
- [Desktop as a Service on Nutanix Cloud Clusters on Azure Disaster Recovery Planning](#)
- [App Layering Operations for OS Layer Imports and Updates on AHV](#)
- [Nutanix Files VDI Sync](#)

- Data Protection with Smart DR

## Section 4 – Troubleshoot an EUC Environment

Objective 4.1: Analyze the performance of EUC workloads

Knowledge

- Given a scenario, determine the best method of troubleshooting performance
  - Analyze performance via Prism Element
  - Analyze performance via Prism Central
  - Performance analysis on the workloads directly
  - Capturing performance of the network
- Given a scenario, assess whether a workload meets performance requirements
  - User profiles
  - Desktop and applications
  - Storage
- Given a scenario, explain Nutanix cluster settings necessary to optimize performance
  - Storage optimization
  - Hot Tier pinning
  - Resource allocation
- Given a scenario, assess whether workloads are correctly sized
  - Appropriate CPU allocation
  - Correct memory sizing
  - OS optimization
  - GPU profile
- Evaluate the source of workload performance issues
  - Cluster CPU, storage, memory utilization
  - Workload CPU, storage, memory utilization
  - Network
  - Client connectivity

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## References

- [Virus Scan and Security Agents](#)
- [FSLogix - Nutanix Files VDI Sync Test Results and Conclusions](#)
- [Behavioral Learning Tools](#)
- [Poor Performance in VDI Environments with SuperFetch and PreFetch Enabled](#)
- [Storage Best Practices for Desktop Delivery Solutions on Nutanix](#)
- [General Workload Conversion Guidance](#)
- [CPU Sizing for Desktop Delivery Solutions on Nutanix](#)
- [Workload VM Configuration](#)

## Objective 4.2: Troubleshoot network configuration

### Knowledge

- Troubleshoot network traffic segmentation
  - Storage traffic
  - Workload traffic
- Troubleshoot bandwidth issues with existing workloads
  - Add network switches/bridges/interfaces
  - Implement LACP
  - Bandwidth limits

## References

- [Virtual Switch Management](#)
- [Physical Networking Best Practices](#)
- [Isolating the Backplane Traffic on an Existing RDMA Cluster](#)
- [RDMA over Converged Ethernet \(RoCE\)](#)
- [Preparing the New Nodes for Addition to Existing AHV Cluster](#)
- [Load Balancing in Bond Interfaces](#)
- [Enabling, Disabling, and Verifying LACP on AHV Hosts](#)
- [Multicast traffic stops when balance-slb load balancing is used on AHV](#)

### Objective 4.3: Resolve desktop deployment/registration failures

#### Knowledge

- Given a scenario, determine the cause of deployment failure
  - Networking issue
  - Authentication issues
  - Storage
- Given a scenario, determine the cause of registration failure
  - Networking issue
  - Agent configuration
  - Software misconfiguration

#### References

- [Windows 10 and 11 Optimizations](#)
- [Creating or Updating an Existing MCS Catalog in Citrix Studio fails with “JavaScriptSerializer” error](#)
- [Creating Machine Catalogs](#)
- [Default Storage Policy](#)
- [Nutanix AHV Plug-in for Citrix PVS Guidelines](#)
- [Creating Active Directory Domain Bind and Domain Join Accounts](#)

### Objective 4.4: Troubleshoot GPU-enabled desktops

#### Knowledge

- Given a scenario, identify reasons why a GPU-enabled workload would not have GPU capabilities
  - Client drivers
  - Host drivers
  - Misconfigured template VM
  - NVIDIA Licensing
- Evaluate the impact of GPU assigned workloads on Nutanix clusters
  - Mixed node types
  - Maintenance activities
  - GPU profiles
- Given a scenario, explain how to troubleshoot GPU performance issues





## References

- [GPU and vGPU Support](#)
- [NVIDIA GPU Troubleshooting Tools](#)
- [Installing the NVIDIA GRID Driver using the Downloaded Package](#)
- [NVIDIA vGPU on Nutanix](#)
- [Hypervisor Implementations on Nutanix](#)

## 4. NCP-EUC 6.10 Training Recommendations

### 4.1 Course Recommendation

Nutanix offers a course that provides training on the objectives tested for in the exam. More information on this course, including delivery methods and pricing, can be found at [nutanix.com/training](https://nutanix.com/training).

Step into the future of End-User Computing (EUC) with this comprehensive course designed to help IT professionals unlock the full potential of Nutanix-powered EUC environments. Whether you're deploying Citrix or Omnisia solutions, this course equips you with the skills to deploy and manage secure, scalable, and high-performing virtual desktop infrastructures.

The [Nutanix® End User Computing Administration \(NEUCA\)](#) course will explore a number of subjects, including:

- EUC on Nutanix: Discover the benefits of modernizing EUC and understand the architecture behind Citrix and Omnisia on Nutanix.
- Smart Sizing & Planning: Learn how to assess requirements and size your EUC workloads for optimal performance.
- Security First: Master Nutanix's robust security features, including Security Configuration Management Automation (SCMA), SSL certificates, cluster lockdown, AHV and CVM hardening, network segmentation, and encryption.
- Deployment & Optimization: Configure storage, create gold images, and perform infrastructure upgrades with confidence.
- Desktop Security & Customization: Use categories, policies, and VPCs to secure desktops, and explore user profile management and app layering with Nutanix Files.
- Disaster Recovery: Implement Smart DR to protect your EUC environment and file shares.
- Monitoring & Troubleshooting: Monitor cluster performance, generate reports, use the AHV plugin, and troubleshoot common EUC issues.

This course is available online or instructor-led. More information including schedules and how to register can be found at [www.nutanix.com/university](https://www.nutanix.com/university).

The material provided in the course covers a majority of the objectives (approximately 80%) that appear on the NCP-EUC 6.10 exam and is recommended for individuals who want to gain a good understanding of these objectives. Please note that additional exposure to a Nutanix environment is highly recommended.

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## 5. Resources

### 5.1 Nutanix Community Edition

The Nutanix Community Edition is a free product that allows you to deploy a Nutanix Cloud Platform. To download the software and build your own environment for exam preparation, click [here](#).

### 5.2 Test Drive

You can also take a 2-hour Hyperconverged Test Drive, which utilizes the Nutanix Community Edition, by clicking [here](#).

### 5.3 The Nutanix Community

Connect with cloud builders from around the world, learn from IT Pros in your industry and share experiences on the Nutanix Community. The community maintains an area focused on Nutanix certifications, which is located [here](#).

### 5.4 Additional End User Computing Resources

Find a wealth of additional End User Computing resources [here](#).

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