

Nutanix Certified Advanced Professional (NCAP) 5.5

Empresa	Nutanix
Produto	Soluções Nutanix
Certificação	NCAP 5.5
Exame	NCAP Blueprint Guide
Prova	Teórica
Duração	150 minutos
Preço	US\$ 199,00

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Capacitação

Segundo a Nutanix, um profissional com NCAP deve possuir entre 1 ou 2 anos de experiência com o AOS¹⁾ e 6 meses de experiência com o AHV²⁾, além de experiência como administrador de sistemas.

Treinamentos

Na preparação para obter o NCAP, a Nutanix recomenda os seguintes treinamentos:

- [Nutanix Advanced Administration and Performance Management \[V5.5\]](#)

Objetivos do Exame

Avaliar o conhecimento e as habilidades do candidato para implementar, administrar e resolver problemas no Nutanix AOS e produtos correlatos.

Produtos:

- AOS
 - [Acropolis Advanced Administration Guide](#)
 - [Acropolis v1 API Reference](#)
 - [Command Reference](#)
 - [Prism Web Console Guide](#)
 - [Prism Central](#)
 - [Prism Self Service User Guide](#)
 - [Prism Self Service Administration Guide](#)
- AHV
 - [AHV Administration Guide](#)
- AFS
 - [Nutanix Files \(AFS - Acropolis File Services\)](#)

Section 1 - Administer Advanced Virtual Machine Deployments

- Perform unattended installation and configure Nutanix Guest Tools (NGT)
- Set up and configure Self Service Restore
- Add/Remove CPU and/or Memory resources to a live system
- Identify the need for Flash mode/AHV Turbo for VM storage or performance tuning
- Manage Acropolis containers

Section 2 - Implement Business Continuity and Disaster Recovery

- Based on a given scenario, administer and manage Nutanix data protection solutions
- Demonstrate how to install and configure synchronous replication for multiple hypervisors

Section 3 - Configure Advanced Networking

- Identify the physical switch configuration necessary to support a given AOS networking feature
- Utilize network CLIs to manage OVS (Open vSwitch) instances and make changes to multiple nodes
- Manage bridges and uplinks
- Configure and utilize Network Visualization
- Describe and differentiate Network Segmentation for CVM-CVM/CVM-Hypervisor/CVM-Intranet

Section 4 - Enable and Customize Security Services

- Describe and manage Nutanix's custom Security Technical Implementation Guides (STIGs)
- Describe and manage role mapping between Prism Element and Prism Central
- Describe and differentiate audit events and logs for local and AD/LDAP users
- Create and install SSH Keys for Cluster Lockdown
- Implement 2-factor authentication for an AOS cluster

Section 5 - Manage Acropolis File and Block Services

- Identify use cases for Acropolis Block Services (ABS)
- Identify use cases for Acropolis File Services (AFS)
- Deploy ABS to an AOS cluster (including Volume Groups, iSCSI Initiators, Discovery, CHAP)
- Deploy AFS to an AOS cluster (including a File Server and File Shares)
- Manage an AFS cluster
- Connect to an ABS target from both Windows and Linux clients

Section 6 - Administer Prism Central with and without Prism Pro

- Describe and differentiate capabilities of Prism Central with and without Prism Pro
- Use Prism Central to identify and fix bottlenecks and anomalies
- Exploit Machine Learning for entity management and resource optimization
- Plan for future growth using Capacity Runway and What-if Scenarios
- Manage assets and applications using Calm

- Automate application Life Cycle Management (LCM)
- Implement and administer Prism Self-Service

Section 7 - Manage and Optimize Performance

- Determine correct system storage settings for compression, deduplication, erasure coding and validate expected savings
- Monitor CPU/Memory utilization to identify problems and propose solutions
- Analyze existing network configuration and adjust for optimal performance (NLB, Bond configuration)
- Identify the capabilities of the Enterprise Cloud as they relate to performance of AOS clusters, AHV hosts and VMs
- Describe and monitor storage performance and methods of optimization

Section 8 - Utilize Advanced Management Interfaces

- Describe the REST API and demonstrate how to use the REST API explorer
- Install and configure a REST client to trigger REST API and generate code snippets
- Execute PowerShell cmdlets in interactive and batch modes

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1)

Acropolis Operational System

2)

Acropolis Hypervisor

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