Nutanix NCP-AI

Nutanix Artificial Intelligence Certification Questions & Answers

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NCP-AI

Nutanix Certified Professional - Artificial Intelligence (NCP-AI)

75 Questions Exam – 3000 on a scale of 1000-6000 Cut Score – Duration of 120 minutes

VMExam

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Discover More about the NCP-AI Certification

Are you interested in passing the Nutanix NCP-AI exam? First discover, who benefits from the NCP-AI certification. The NCP-AI is suitable for a candidate if he wants to learn about Professional Level. Passing the NCP-AI exam earns you the Nutanix Certified Professional - Artificial Intelligence (NCP-AI) title.

While preparing for the NCP-AI exam, many candidates struggle to get the necessary materials. But do not worry your struggling days are over. The NCP-AI PDF contains some of the most valuable preparation tips and the details and instant access to useful **NCP-AI study materials just at one click.**

Nutanix NCP-AI Artificial Intelligence Certification Details:

Exam Name	Nutanix Certified Professional - Artificial Intelligence
Exam Code	NCP-AI
Exam Price	$199 USD
Duration	120 minutes
Number of Questions	75
Passing Score	3000 on a scale of 1000-6000
Recommended Training / Books	**Nutanix Enterprise AI Administration (NAIA)**
Schedule Exam	**Nutanix**
Sample Questions	**Nutanix NCP-AI Sample Questions**
Recommended Practice	**Nutanix Certified Professional - Artificial Intelligence (NCP-AI) Practice Test**

NCP-AI Syllabus:

Section	Objectives
Deploy a Nutanix Enterprise AI Environment	- Validate installation prerequisites • Identify the installation prerequisites • Identify the installation limitations • Cite the installation procedure • Describe the core fundamental components of NAI architecture

Section	Objectives
	- Install Nutanix Enterprise AI components • Compare and contrast the installation process for NKP (including app catalog) and non NKP environments • Recognize version compatibility between pre-requisite and NAI components • Perform a dark site installation • Configure storage classes - Configure DNS, setup the URL, and manage required certificates • Identify or implement an FQDN for the NAI installation • Ensure that the FQDN has a secure certificate • Validate successful login to UI
Configure a Nutanix Enterprise AI Environment	- Onboard users to Nutanix Enterprise AI • Differentiate between the user and administrator roles • Identify the user management operations that can be performed as an administrator • Given specific scenarios, leverage roles to limit privileges for target users - Import Large Language Models (LLMs) • Recognize the methods and repos available for importing • Obtain repo keys for HuggingFace and/or NVIDIA NGC • Recognize where to add repo keys in the UI for usage • Explain the manual import process and the requirements - Create endpoints • Determine a downloaded model to expose via an endpoint • Determine the number and type of GPUs required for a selected model • Determine the number of instances required to achieve a certain throughput

Section	Objectives
	• Determine vCPU/memory and inference engine for optimization scenarios - Create and apply keys for each API endpoint • Identify the locations to generate and manage API keys • Identify where to view API keys in an endpoint • Deactivate an API key • Add an API key to an existing endpoint - Deliver endpoints to the consumer • Identify the endpoint URI and model-specific parameters and the API key to be shared with consumers • Identify tool calling vs non tool calling API curl commands
Perform Day 2 Operations	- Prepare requirements for connecting the app • Determine where to get the sample request in the NAI application • Explain the elements in the sample request and the elements required for the OpenAI compliant application configuration • Recognize the different endpoint types and choose the correct one for a given application - Interpret performance details and optimize accordingly • Determine the observability metrics for performance evaluation • Determine possible changes in resource allocation to remedy latency and throughput issues - Monitor access activity for outlier detection • Determine where and how to view the top 5 API Keys being used • Locate the endpoint dashboard and view assigned API keys

Section	Objectives
	• Recognize when to deactivate API keys • Review and interpret audit events - Select the appropriate LLM to optimize output quality • Determine the prompt input and the LLM output per endpoint to evaluate accuracy through human feedback • Determine techniques and models that can be used to improve the output quality • Apply guardrails to improve safety • Apply rerank models to achieve desired results
Troubleshoot a Nutanix Enterprise AI Environment	- Troubleshoot and resolve performance and resource utilization issues • Determine where to view infrastructure performance • Recognize how to filter by GPU nodes and review resulting GPU utilization graph to determine which GPUs are being heavily used • Determine if an endpoint is using GPU • Recognize which type of GPU an endpoint is using. • Determine if endpoint is using CPU-based acceleration or not - Remediate health check failures on the cluster • Debug a cluster health fail visible on NAI UI • Recognize the different components that can cause health check failures • Analyze Kubernetes NAI system resources to address health check failures • Determine which layer of the stack is causing the health check failure • Based on a health check failure diagnosis, determine an appropriate course of action - Troubleshoot model import and endpoint creation

Section	Objectives
	• Identify the failure scenarios where model download fails due to misconfigurations and/or connectivity (e.g., prevalidated, custom, and/or restricted networks) - Troubleshoot CSI driver connectivity - Ensure model EULA was accepted on HuggingFace (Llama models) - Ensure HuggingFace or NVIDIA token is valid • Determine available allocatable compute resources (e.g., CPU, memory, GPUs, taints) that could prevent endpoints from being scheduled • Recognize if all prerequisites were successfully installed (e.g. Kserve) • Diagnose the cause of container images failing to be downloaded or be stored on Kubernetes nodes
Connect Applications to a Nutanix Enterprise AI Environment	- Configure and validate an application with the endpoint • Differentiate between model and endpoint types to be consumed by the application • Recognize the purpose and use case for integrating the various types of models • Issue a simple query to the OpenAI-compatible NAI API endpoints using Python or Curl • Investigate and address application integration issues - Check endpoint metrics corresponding to application usage • Identify the latency and number of API requests per endpoint associated with application • Describe how to correlate the application with NAI endpoint metrics

Broaden Your Knowledge with Nutanix NCP-AI Sample Questions:

Question: 1

What is typically the first step in the documented NAI installation workflow?

a) Install storage operators
b) Validate prerequisites
c) Configure GPU passthrough
d) Import LLM models

Answer: b

Question: 2

During installation, browser access shows a certificate error. Certificate inspection reveals the FQDN is missing from the SAN field. What is the required fix?

a) Regenerate the certificate including the FQDN
b) Change NAI to HTTP mode
c) Add the FQDN to /etc/hosts
d) Disable HTTPS enforcement

Answer: a

Question: 3

When optimizing endpoint performance, which parameter is adjusted to support CPU-heavy preprocessing?

a) GPU memory
b) vCPU count
c) Pod affinity rules
d) Endpoint timeout

Answer: b

Question: 4

Health checks indicate failure at the “Serving Layer.” KServe pods show errors. What is the most likely impact?

a) User authentication failures
b) Endpoint model serving failures
c) GPU nodes become unavailable
d) Certificates become untrusted

Answer: b

Question: 5

Where can the sample request for connecting applications be found?

a) NCM → Compliance
b) AHV Host → BIOS Settings
c) Prism → Alerts
d) NAI → Endpoints → Sample Request

Answer: d

Question: 6

A deployment engineer completes the NAI installation but cannot access the UI. The FQDN resolves incorrectly to a private IP not associated with the NAI ingress service. Certificate validation also fails in the browser. Which action will resolve the issue?

a) Disable TLS validation in browser
b) Reinstall NAI
c) Restart all CVMs
d) Update DNS A record to point to the correct ingress IP

Answer: d

Question: 7

Which component must be shared with consumers when delivering an NAI endpoint?

a) Endpoint URI + model parameters + API key
b) Linux kernel version of the NAI cluster
c) KServe deployment logs
d) GPU firmware hash

Answer: a

Question: 8

User attempts NAI login after installation but receives a redirect error. FQDN and certificate look correct. Admin tests cluster: ingress routing is misconfigured.What should the admin do?

a) Restart API server
b) Increase GPU allocation
c) Fix ingress rule bindings to the FQDN
d) Reset endpoint configuration

Answer: c

Question: 9

If an endpoint is failing to use GPU and instead uses CPU acceleration, what should be verified?

a) GPU labeling and taints
b) Storage container size
c) Certificate issuer
d) NCM licensing

Answer: a

Question: 10

Why would an administrator choose a specific inference engine for an endpoint?

a) It changes CVM failover behavior
b) It optimizes model runtime performance
c) It determines AOS upgrade path
d) It activates NCM licensing

Answer: b

Avail the Study Guide to Pass Nutanix NCP-AI Artificial Intelligence Exam:

- Find out about the NCP-AI syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the **NCP-AI syllabus**, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the NCP-AI training. Joining the Nutanix provided training for NCP-AI exam helps a candidate to strengthen his practical knowledge base from the certification.

- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the **NCP-AI sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. NCP-AI practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

- Passing the NCP-AI exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.