

# NCTA-Certified Cloud Technologist (NCT) Exam NCT-110

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## Exam Information

### Candidate Eligibility:

The *NCTA-Certified Cloud Technologist (NCT)* exam requires no application fee, supporting documentation, nor other eligibility verification measures for you to be eligible to take the exam. Simply purchase an exam voucher [here](#), then Logical Operations will send you an email containing the information you need to register to take the exam through Pearson VUE. You can also purchase a voucher directly through Pearson VUE. If your voucher came bundled with your NCTA Cloud Technologies training program, you will receive registration information from your training provider. Once you have obtained your voucher information, you can register for an exam time [here](#). By redeeming your exam voucher, you agree to our [Candidate Agreement](#).

### Exam Prerequisites

While there are no formal prerequisites to register for and schedule an NCT-110 exam time, the National Cloud Technologists Association (NCTA) strongly recommends you first possess the knowledge, skills, and abilities to do the following:

- Identify the benefits of cloud computing
- Select end-user cloud technologies based on requirements and needs
- Plan cloud adoption
- Address barriers to cloud implementation
- Select and implement both free and paid Software-as-a-Service (SaaS) solutions based on requirements and needs
- Plan for cloud service migration
- Select SaaS solutions that are appropriate for small, medium, and large organizations
- Integrate SaaS solutions
- Select Platform-as-a-Service (PaaS) and Infrastructure-as-a-Service (IaaS) solutions based on requirements and needs

You can obtain this level of skill and knowledge by taking the following Logical Operations (LO) course, which is available through training providers located around the world:

- *NCTA Cloud Technologies*

## Exam Specifications

**Number of Items:** 32

**Passing Score:** 20 out of 32 (60%)

**Duration:** 55 minutes (**Note:** Published exam times include the 5 minutes you are allotted for reading and signing the Candidate Agreement and the 5 minutes you are allotted for the Pearson VUE testing system tutorial.)

**Exam Options:** In person at Pearson VUE test centers

**Item Formats:** Multiple Choice/Multiple Response/True-False

## Exam Description

### Target Candidate:

This exam is intended for system administrators who are responsible for evaluating, selecting, and implementing cloud services, including SaaS, PaaS, and IaaS, for organizations of all sizes. The ideal candidate will have at least one year of experience working with Windows Server, Linux Server, or other common server platforms, and should have experience with basic client and server deployment, configuration, and use. Candidate experience should include configuring network connectivity, configuring server and client communications, installing server operating systems, using administrative tools, configuring system properties, and configuring network settings.

To ensure exam candidates possess the aforementioned knowledge, skills, and abilities, the *NCTA-Certified Cloud Technologist* exam will test them on the following objective domains with the following weightings:

Domain	% of Examination
<b>1.0 Cloud Computing Concepts and Benefits</b>	16%
<b>2.0 Cloud Service Models</b>	23%
<b>3.0 Cloud Adoption Planning</b>	13%
<b>4.0 Cloud Service Migration</b>	7%
<b>5.0 SaaS Solutions</b>	16%
<b>6.0 PaaS and IaaS Solutions</b>	25%
<b>Total</b>	<b>100%</b>

The information that follows is meant to help you prepare for your NCTA certification exam. This information does not represent an exhaustive list of all the concepts and skills that you may be tested on during your exam. The exam domains, identified previously and included in the objectives listing, represent the large content areas covered in the exam. The objectives within those domains represent the specific tasks associated with the job role(s) being tested. The information beyond the domains and objectives is meant to provide examples of the types of concepts, tools, skills, and abilities that relate to the corresponding domains and objectives. All of this information represents the industry-expert analysis of the job role(s) related to the certification and does not necessarily correlate one-to-one with the content covered in your training program or on your exam. The NCTA strongly recommends that you independently study to familiarize yourself with any concept identified here that was not explicitly covered in your training program or products.

## **Objectives:**

### **Domain 1: Cloud Computing Concepts and Benefits**

#### **1.1 Translate cloud computing benefits to business needs**

- **Cloud computing principles**
- **Organizational benefits and uses**
  - **Big data and analytics**
  - **Mobile**
  - **Scalability**
  - **Cost effectiveness**
  - **Layered defense**

#### **1.2 Analyze business trends in cloud computing**

- **Application technologies**
- **Pay-per-use**
- **Grid computing**
- **Policy-based scaling**
- **Expense off-loading**

### **Domain 2: Cloud Service Models**

#### **2.1 Identify service models and implementations**

- **Cloud computing service models**

- NIST
- SaaS
- PaaS
- IaaS
  - Networking
  - Virtualization
- Common implementations
  - Public
  - Private
  - Hybrid

## 2.2 Identify cloud provider benefits and challenges

- Economy of scale
- Optimization
- Resource availability
- Responsibility for security
- Down time

## Domain 3: Cloud Adoption Planning

### 3.1 Plan cloud access and management

- SLAs
- User groups and needs
- Data access
- Infrastructure management

### 3.2 Plan cloud provisioning

- Multitenancy
- Provisioning requirements
- Utilization models
  - Fixed
  - Variable

### 3.3 Select end-user cloud technologies

- Native applications
  - Hardware access
- Web applications

- **Client-side**
- **Server-side**
- **Browser requirements**
- **Standards**

### **3.4 Address barriers to cloud Implementation**

- **Cloud-implementation concerns and challenges**
  - **Compliance**
  - **Legacy applications and systems**
  - **BYOD**
  - **Privacy and security**
  - **Vendor lock-in**
  - **Data transfer and availability**

## **Domain 4: Cloud Service Migration**

### **4.1 Plan domain name integration with cloud services**

- **Web access and DNS**
  - **NSLookup**
  - **DNS integration considerations**
  - **DNS integration best practices**

### **4.2 Plan to migrate email to the cloud**

- **Data loss mitigation**
- **Mail flow**
- **Directories**
- **Migration options**

## **Domain 5: SaaS Solutions**

### **5.1 Evaluate SaaS solutions**

- **Free SaaS solutions**
- **Paid SaaS solutions**

### **5.2 Select SaaS solutions for small organizations**

- **Small organizational needs**

- Accounting
- Storage
- Communication
- Time and project management
- Business management
- Multimedia
- **Benefits to smaller organizations**

### 5.3 Select SaaS solutions for medium and large organizations

- **Large organizational needs**
  - CRM
  - Marketing
- **Large organizational requirements**
  - Domain mapping
  - User roles
  - Provisioning
  - Branding

### 5.4 Implement SaaS solutions

- **SaaS models**
- **SaaS requirements**
  - **Native vs. web apps**
    - Stateless web apps
  - **Cloud identity**
- **Provider considerations**
- **Business needs for SaaS integration**
- **Implementation planning**
  - **Stakeholders and roles**
  - **Usage scenarios**
  - **Implementation phases**
    - Testing
    - Pre-deployment
    - Deployment
    - Monitoring and support
  - **Training**

### 5.5 Evaluate integration options

- **Integration models**
- **Integration points**

- Storage
- Data
- Security concerns
  - Authentication
  - Permissions and access controls
- Integration best practices

## Domain 6: PaaS and IaaS Solutions

### 6.1 Evaluate PaaS solutions

- PaaS types
- PaaS benefits
- Requirements
  - Technological
  - Administrative

### 6.2 Implement PaaS solutions

- Solutions for small, medium, and large organizations
- Implementation best practices

### 6.3- Compare IaaS to traditional infrastructure solutions

- IaaS benefits
- Usage scenarios

### 6.4 Identify and select IaaS providers

- Provider service types
  - Compute
  - Storage
  - Analytics
  - Database
  - Content delivery
- Common pitfalls

## Continuing Education Requirements

The *NCTA-Certified Cloud Technologist (NCT)* certification is valid for three years from the time the certification is granted. You must re-take the most up-to-date version of the exam prior to the three-year period's end to maintain a continuously valid certification.

To view the NCTA Candidate Agreement, click [here](#).

Then purchase a voucher to take the exam by clicking [here](#).