

# Internet + Cloud Audit Mode in Enterprise Human Resource Audit Practice

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**Abstract:** *In the context of the prevailing Internet + mode, all sectors of society are deeply changed by the Internet. Combined with the practice of China's Internet industry, in this mode, auditing of all walks of life is bound to be controlled by future technology. In the practice of enterprise human resource audit, profound changes are bound to take place, and the acceleration of efficiency is a profound practice one-sided. This paper studies how the Internet + cloud audit mode gives full play to the advantages of cloud mode in enterprise human resource audit practice, and obtains the advantages of cloud audit mode through data comparison. Under the trend of strengthening Internet + cloud audit, it is necessary to deeply improve the combination of Internet related technologies and improve the technological content of practice; It is also necessary to enhance the advantages of the Internet, gradually removing the isolated and non-communicating audit module, and replacing it with a cloud-centered audit mode that connects all units. Based on the processing capacity of cloud computing and massive data processing capacity of cloud computing, the r&d and production of human resource software will be transformed into future intelligence. Data comparison in this chapter shows that cloud audit mode has better scores than traditional mode, with a comprehensive average score of 95.8.*

**Keywords:** *Internet plus, Cloud Audit Mode, Corporate Human Resources, Auditing Practices*

## 1. Introduction

The concept of "cloud computing" is surging. In this context, enterprise human resources practice should seize the opportunity, grasp the trend of The Times, combine the current society, accelerate the integration of the Internet, and combine the cloud audit mode, so that the enterprise human audit from the previous isolated and fragmented state to the state of interconnection, sharing the "cloud". Make full use of the super power of cloud computing and the massive data processing capacity of cloud computing, conduct in-depth mining of core affairs from enterprise work, and extract effective data.

Many scholars at home and abroad have studied the Internet + cloud audit mode. Supported by the emerging Internet of Things, information physics systems and cloud computing, cloud manufacturing (CMfg) has become a feature of a new service-oriented technology that is reshaping the CM paradigm into an agile, scalable and interoperable model. This paper proposes a CM platform for intelligent manufacturing based on CMFG [1]. D Thanh, K Younghan and L Hyukjoon proposed a location-based interaction model of Internet of Things and clustering for mobile cloud computing applications, and compared it with the cycle awareness model. Through a large number of analysis and experimental results, compared with the periodic model, the location-based model has achieved significant improvement in network life [2]. S Jontz noted that the growth of cloud computing has put businesses and governments off, but with the growth of the Internet of Things, any hope of an easy solution to the challenge has been dashed. The exponential growth of network devices increases uncertainty about the role the cloud will play in providing this ubiquitous connectivity [3]. Because the domestic cloud audit mode is not mature, at the present stage, we must learn from foreign advanced experience to accelerate the development level of enterprise human resource audit.

With the arrival of the third scientific and technological revolution, the information electronics industry has been profoundly changed. With the deepening dependence of various industries on information technology, information technology has directly promoted the generation of massive data. Enterprise human resources in cloud audit mode will certainly seize the opportunity of The Times, deploy cloud mode, combine with big data technology, provide high-quality enterprise human resources services

for today's social and economic development. Under the background of cloud mode, the practice of enterprise human resource audit still needs to be done. First, give full play to the advantages of cloud mode and share enterprise human resources comprehensively; Second, deeply explore the value of enterprise human resource audit practice under cloud audit mode; Third, focus on advantages, promote the Internet + model, and further improve human efficiency to build a platform.

## **2. Research on the Practice of Internet + Cloud Audit Mode in Enterprise Human Resource Audit**

### **2.1 Internet + Cloud Audit Mode**

#### **2.1.1 Climate Cloud Surge Big Data**

The concept of cloud computing was first put forward by the CEO of Google in the search engine conference in the early 21st century. It placed data processing in the cloud to provide high-quality services for the public. The following year, "cloud computing" began to be implemented in universities in the United States, and then entered the Asian market. "Cloud computing" is an innovative product of The Times, and its billing model is based on the amount of usage. Under this model, it provides low-cost and high-quality network services [4].

#### **2.1.2 Cloud Audit**

"Computer audit" has been an industry definition abroad since the middle of the 20th century. Foreign experts and institutions continue to develop basic theories from electronic data audit, information technology audit, to continuous audit. The idea of "cloud auditing" has been put forward over the years, with Cisco, for example, throwing out auditing standards from the security side. In practice, foreign companies have developed computer software based on this theory, such as ACL and Teamate. Although a number of companies have implemented computer software platforms based on this, it has not been fully defined.

#### **2.1.3 Development of Cloud audit in China**

China's computer audit lags behind the foreign level of the same period, audit internal laws and regulations are also lacking, audit development level is not balanced. Cloud auditing is not yet fully unified, and there is no concept of a cloud pattern at all. At that time, cloud audit work model, rules and so on were completely outdated. In recent years, China has made good achievements on the road of informatization construction, which paves the way for China's cloud audit mode to embark on the high-speed channel of informatization. Since then, China cloud audit has accelerated the pace of development. In China, some medium and large enterprises with high information level began to develop cobit-based architecture to further carry out audit work.

### **2.2 Cloud Audit Mode**

With the continuous development of mobile signals, cloud audit traffic includes order information received and forwarded, Internet voice, pictures, text and so on, which is far beyond imagination. It can be seen that cloud audit mode has gradually become a part of the audit community. With the increasing amount of data in enterprises, the Internet, data usage is getting bigger and bigger. The promotion of big data technology is squeezing the time of traditional manual audit. The cloud audit platform is used for cloud storage and collaboration to achieve data sharing and reduce audit barriers.

#### **2.2.1 Cloud Audit Theory**

Computer audit is based on advanced audit ideas, risk control matrix, information audit practice, and the establishment of audit information system, so as to provide guarantee for the realization of audit. The audit structure is shown in Figure 1.

Based on the characteristics of audit practice, the system architecture and model of internal audit information are constructed. Through the integration of audit objectives, the construction of information audit system, the establishment of audit management system and management platform. Cloud computing with high concurrency, high availability, virtual storage, distributed, and constant monitoring should be auditing the normal work. At present, the mainstream cloud platform in the international scope is composed of client, application layer, service layer, infrastructure and interface layer. Through distributed operation mode, high-speed and effective implementation of computing capacity [5-6].

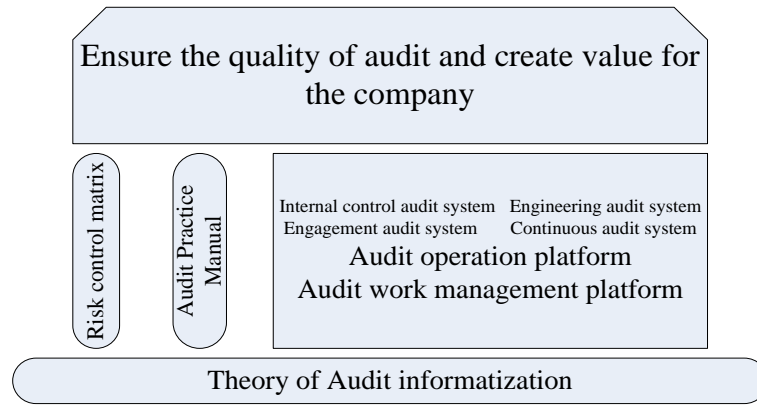


Figure 1: Computer audit structure diagram

### 2.3 System Functional Architecture

The cloud audit platform is composed of client, application layer, service layer, infrastructure and interface layer. The system architecture diagram is shown in Figure 2.

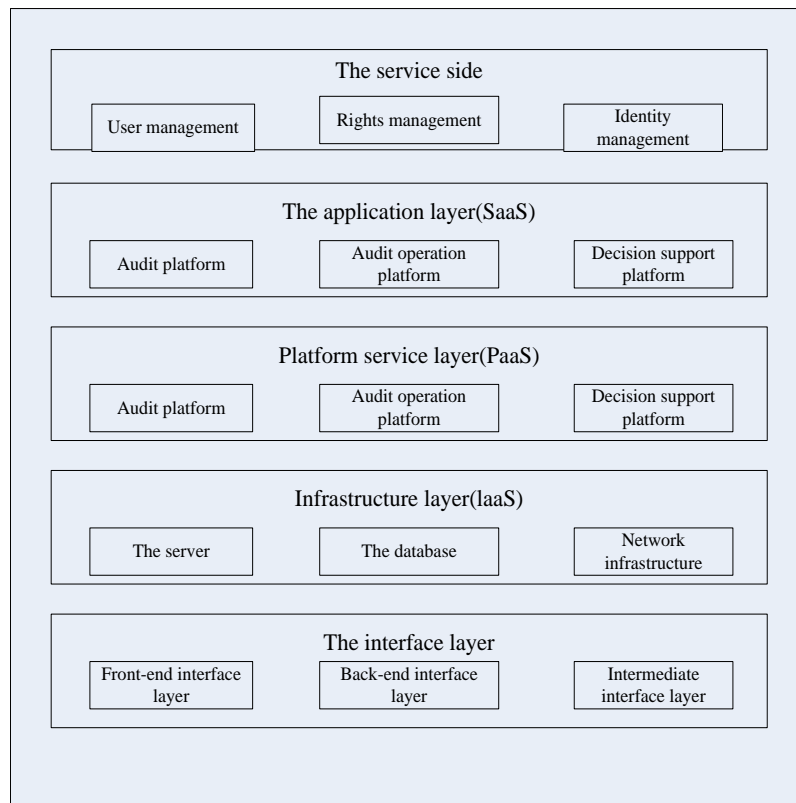


Figure 2: Cloud audit Architecture hierarchy diagram

#### 2.3.1 The client

This section describes how to manage permissions and access permissions of the cloud audit platform. Client a program that manages client requests and, corresponding to the server, provides local services to the client. Except for some applications that run only locally, they are usually installed on a normal client and run in conjunction with the server. After the development of the Internet, the more common users include the web browser for the World Wide Web, the E-mail client for receiving and sending E-mail, and the client software for instant messaging. For this kind of application program, the network needs to have the corresponding server and service program to provide the corresponding service, such as database service, E-mail service and so on, so in the client and server side, need to establish the specific communication connection, to ensure the normal operation of the application program.

### **2.3.2 Platform Application Layer**

The application layer interfaces directly with application programs and provides common network application services. The application layer also makes requests to the presentation layer. The application layer is the highest level of an open system and provides services directly to application processes. Its function is to complete a series of services required for business processing while realizing the mutual communication of multiple system application processes. Its service elements are divided into two types: public application service element CASE and specific application service element SASE.

### **2.3.3 Platform Service Layer**

In computer and telecommunications systems, the service layer is used to help assign tasks. The service layer has to be lower because it is there to assist, not to perform tasks without instructions. When this layer receives a task, it gets in touch with the layer, completes the task and tells them what program or function to turn on or off. This layer usually has no function of its own other than communication. It can be difficult for the upper layer, so having this layer communicate takes some of the computational pressure off. When using the service layer, it cannot be used as the top layer to receive user instructions. This is because this layer does not understand how to interpret instructions, nor does it know how to complete them. It has to be at another level to work properly. One approach is to think of this layer as an assistant, good at getting things done and organizing workers, but bad at making decisions without direct direction from management. After the upper layer is instructed, it delegates it to the service layer below it.

### **2.3.4 Infrastructure Layer**

Data infrastructure is an evolution of traditional IT infrastructure. IT is a data center IT infrastructure designed and constructed with the goal of fully mining the value of data and deeply integrating computing, storage, network and software resources centering on data. Data infrastructure access, storage, computing, management and data to five areas, through gathering the data, provide "mining deposit - calculate - tube - use" full lifecycle support ability, build a comprehensive data security system, build an open data of the ecological environment, make the data ", flow under any more, with good, transform data resources for data assets, Maximize data value.

### **2.3.5 Interface layer**

It is not actually part of the Internet protocol suite, but is a way for packets to travel from the network layer of one device to that of another. This process can be controlled in the software driver of the network card, in the firmware or in a dedicated chip. This completes some data link functions such as adding headers ready to send, and actually sending over physical media. On the other end, the link layer will complete the data frame reception, remove the header and transmit the received packet to the network layer, as shown in Figure 2 [7-8].

## **3. Explore the Effect of Internet + Cloud Audit Mode in Enterprise Human Resource Audit Practice**

### **3.1 Research Methods**

This paper adopts functional analysis method to study the practical effect of Internet + cloud audit mode on enterprise human resource audit in view of the specific functions of cloud audit mode [9-10].

### **3.2 Function Demonstration**

This paper mainly uses system function test to conduct automatic system test on typical problems of cloud audit mode system and collect audit practice effect data.

### **3.3 Formula Involved**

SPSS 22.0 software was used for statistical analysis and F distribution test. The f distribution formula used in this paper is as follows, where X obeys f (m,n):

$$E(X) = \frac{n}{n-2} \quad (1)$$

$$s^2 = \frac{(M - X_1)^2 + (M - X_2)^2 + (M - X_3)^2 + \dots + (M - X_n)^2}{n} \quad (2)$$

Formula (1)  $E(x)$  is the sample mean, and  $n$  is the degree of freedom of  $f$  distribution. Formula (2) is the double population test, sample variance  $s^2$ .

#### 4. Investigation and Research on the Effect of Internet + Cloud Audit Mode in Enterprise Human Resource Audit Practice

##### 4.1 Functional Analysis method

Table 1: Cloud audit test

	Program management	Job management	Resource management	Performance management	Knowledge management
Number of random tests	1001	650	1809	589	1450
The mark	93	99	98	92	97
Function evaluation	80	85	90	89	93

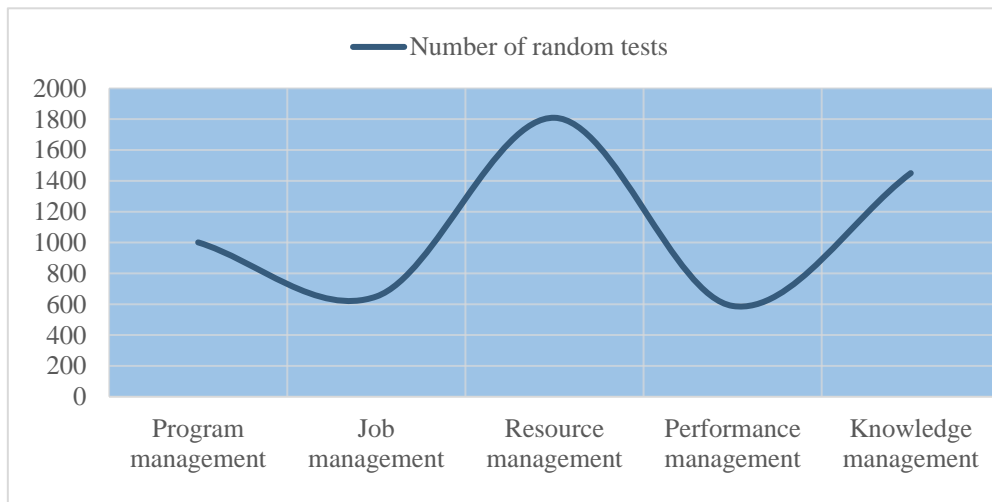


Figure 3: Number of random tests

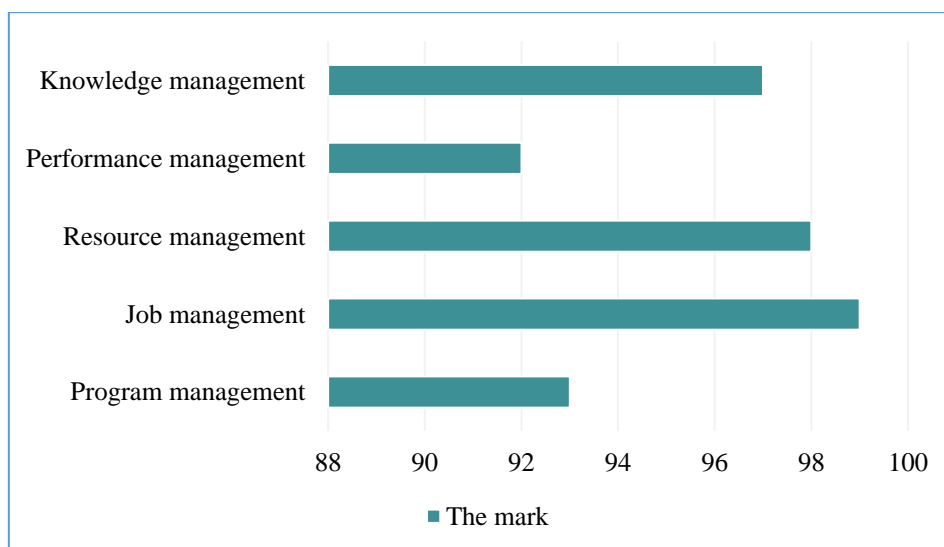


Figure 4: Cloud audit test

Firstly, the practice results of Internet + cloud audit mode in enterprise human resource audit are

analyzed: system test is carried out one by one in the audit scenario of cloud audit mode enterprise human resource. Data were collected for plan management, operation management, resource management, performance management and knowledge management in audit scenarios. The cloud audit test is shown in Table 1. The number of random test experiments is shown in Figure 3 and the score and evaluation of cloud audit test in Figure 4 [11-12].

After entering the system test, the enterprise human resource audit practice score of cloud audit mode is very excellent, especially the efficiency, quantity and complexity of transaction processing in cloud mode. Cloud audit processing data, images, audio, video and other capabilities are unexpected, when the enterprise human audit access cloud mode, efficiency and security will be improved.

## 5. Conclusions

The application of cloud technology to auditing is bound to be revolutionary. Using modern scientific and technological means to subvert traditional manpower is bound to advance in a deeper, more efficient and safer direction. The promotion of cloud audit mode has profoundly changed the nature of the work. The original traditional human audit, but now only the automatic mode of supercomputer audit work. Based on the development of science and technology, the personalized audit needs are constantly upgraded. Under the international environment, the system needs are constantly improved to meet the growing needs of customers. Improving audit function is not only the trend of socialization tide, but also the inevitable result of social development. In today's economic development, people's effective demand is constantly increasing, and the data effective demand of cloud audit platform based on big data will also keep increasing. In today's knowledge explosion, we must rely on new means, new methods and new ideas to achieve great victory in the challenge of the new century. Internet + cloud audit mode in the enterprise human resources audit practice will continue to increase with the society has its added value.

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