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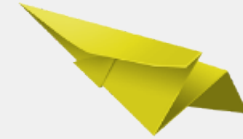


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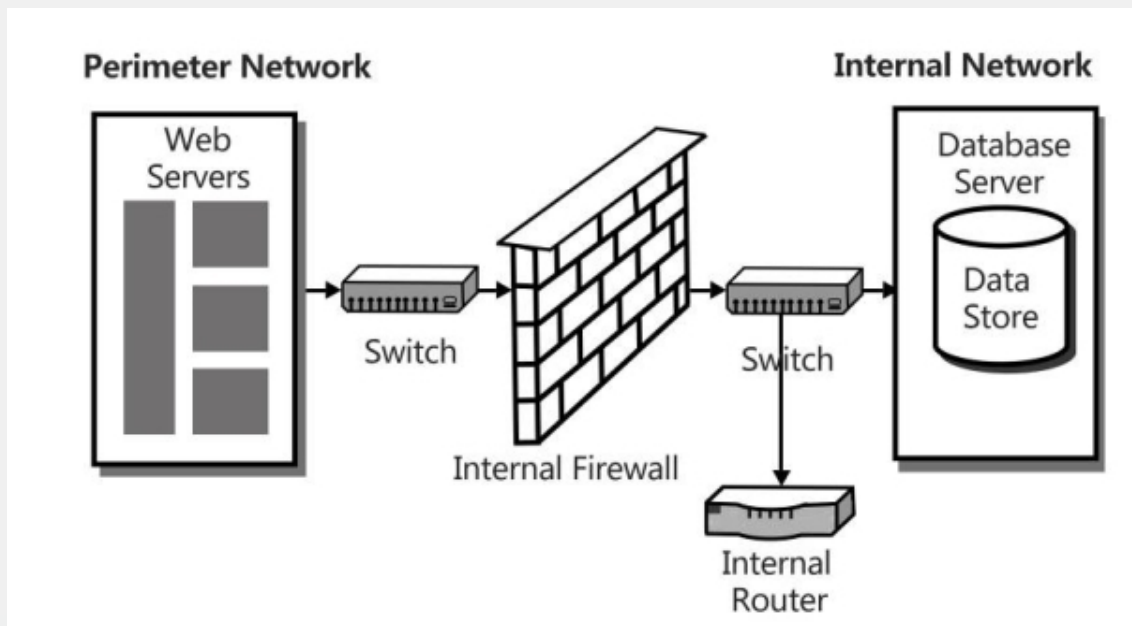


Unit 6 Computer Security



Speaking

1. Look at the following picture and speak out each name of the following devices in computer security management in Chinese.



Perimeter Network 边界网络

Web Servers 网站服务器

Internal Firewall 内部防火墙

Database Server 数据库服务器

Internal Network 内部网络

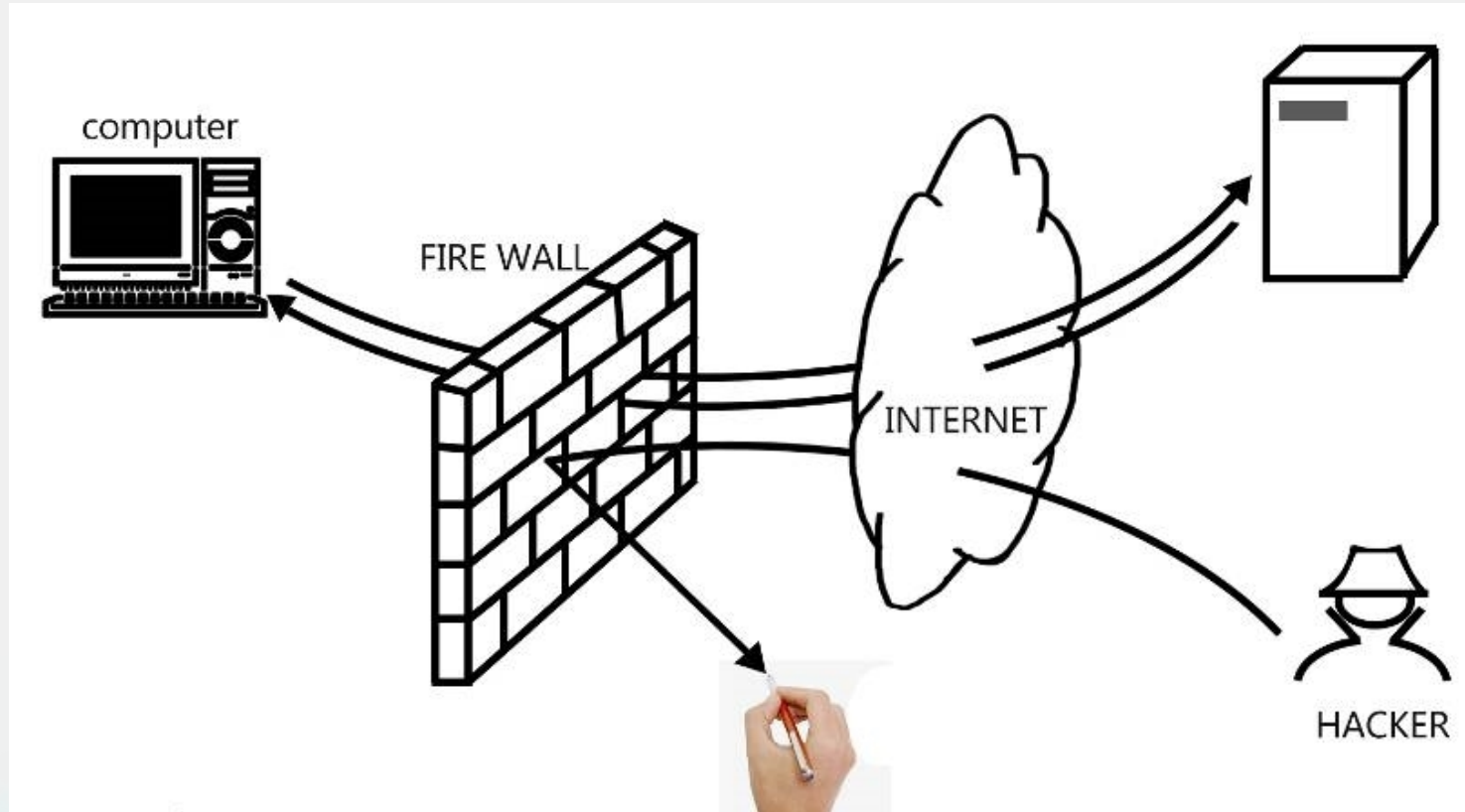
Switch 交换机

Internal Router 内部路由器

Data Store 数据存储区

Speaking

2. Look at the following picture and describe the major function of firewalls in computer security.



Speaking

3. Suppose you are a cyber-security expert. Give a presentation to each picture in English.

Picture 1 Have you ever been a victim of malware? What have you done?



Reference words:

virus 病毒

cyber attack 网络攻击

WannaCry ransom ware 勒索病毒

encrypt 加密

Microsoft Windows operating system 微软操作系统

Speaking

3. Introduce the most popular anti-virus softwares and their features to the users.

Picture

2



Listening

1. Listen carefully and choose the words you hear.

1. A. better B. bitter C. letter D. litter
2. A. pig B. big C. pear D. bear
3. A. cup B. cuff C. cap D. cab
4. A. slip B. sheep C. ship D. sleep
5. A. cheek B. chick C. copy D. coffee
6. A. boat B. vote C. best D. vest
7. A. hat B. hot C. vat D. vet
8. A. beg B. bad C. bed D. bag
9. A. seat B. seed C. seal D. zeal
10. A. cork B. cock C. cot D. cart

Keys : 1. A. 2. D. 3. B. 4. C. 5. A. 6. D. 7. C. 8. B. 9. C. 10. C.

2. Listen to the short passage and choose the proper words to fill in the blanks.

Not all people like to work but everyone likes to play. All over the world men and women, boys and girls enjoy 1 (sports, shopping, sleeping). Since long, adults and children have called their friends together to spend hours, even days playing games.

Sports help people to live happily. They help to keep people healthy and feeling 2 (wonderful , great, good). When they are playing games, people move a lot. This is good for ~~their~~ health. Having fun with their friends makes them happy.

Many people enjoy sports by 3 (meeting , ~~seeing~~, ~~watching~~) others play. In small towns, crowds meet to watch the bicycle races or the soccer games. In the big cities, thousands buy tickets to see ice-skating shows or 4 (football, baseball, volleyball) games.

Is it hot where you live? Then swimming is probably your 5 (~~best~~, ~~favorite~~, like). sport. Boys and girls in China love to swim, while aged people like various kinds of Tai Ji and Qi Gong. The climate is good for all the seasonal sports in the country.

Listening

3. Listen to the dialogue and choose the best responses to what you hear.

1. A: We both do.

B: He doesn' t play football.

C. No, he doesn' t.

D. Yes. I do.

D

2. A: I' m busy

B: I usually watch TV.

C. I agree with you.

D. I don' t want to go there.

B

3. A: I don' t like swimming

B: I would like to learn it..

C. Yes, I think so.

D. It' s my pleasure.

C

4. A: Yes, he is nice.

B. Thank you.

C. He always wears a cap.

D: He is very strong.

A

Listening

3. Listen to the dialogue and choose the best responses to what you hear.

5. A. I must go now.
B. I like basketball best.
C. Three years ago.
D. one hour.

D

6. A. Nobody
B. What are you saying?
C. Well, I feel a little tired.
D. No, I don't like to

C

7. A: Yes. That's a good idea.
B: I would like a cup of tea.
C. How are you getting along?
D. Thank your books.

A

8. A: What a pleasure.
B. Basketball
C. Let's go.
D. I enjoy it.

B

Listening

5. Listen to the dialogue and answer the following questions by filling in the blanks.

1. What's weather like today?

It's so 1cold .

2. What do they want to do?

They want to go 2skating .

3. Does the woman like to do it?

3No, she doesn't .

4. Why does the man insist on playing the game?

Because they won't 4feel cold when you start the game. .

5. Do they go to play the game finally?

5Yes .

Listening

6. Listen to the passage and fill in the blanks with words you hear. Some new words given below will be of some help to you.

I do like sports!

I do like sports during my daily life. Talking about what kind of sport that I like most, I tell you that, it's swimming. The _____ 1 _____ I choose swimming are as follows:

First of all, it is _____ 2 _____ enjoyable, you know, in _____ 3 _____. When the sun is shining _____ 4 _____, and the air is even too hot to breathe, swimming would be the best _____ 5 _____. Once you jump into the water, the coolness will drive all the anxiety and sticky _____ 6 _____ away. Second, I guess swimming is one of the best sports to _____ 7 _____ one's health. It enables your lungs to breathe more air, and helps the body to build up more muscles. Last but not least, swimming is _____ 8 _____ for girls, since it's a whole body sport. _____ 9 _____ the whole body's _____ 10 _____, girls can gain a well-shaped figure easily.

I like sports. I like swimming.

Keys: 1. reasons 2. really 3. summer 4. 5. choice
6. feelings 7. improve 8. suitable 9. Through 10. exercise

Computer Security

Life is full of trade offs and computer security is no different. The only safe computer is a dead computer, or at least a disconnected one. If no one can get to it, no one can harm it. The only problem is, it's not exactly useful in that state. So the extent of computer security is always a tradeoff between putting the computer to use and restricting its misuse and abuse. The time and money you spend on securing your computer has to be weighed against the likely loss if it is broken into or damaged; e.g. , you are not likely to keep your garbage under lock and key.

Computer security is defined by ISO as follows: a technological and administrative safeguard which is made or accepted for data processing system to prevent computer hardware and software from being accidentally or maliciously destroyed, alternated or exposed. The range of computer security covers physical security, software security, data security and operation security, etc.

Physical security means that the devices of computer system and its relevant facilities work regularly, including main unit, network equipments, communication circuits, storage devices, etc.

Software security refers to the integrity of software, i. e. the integrity of operating system software, database management software, network software, applications and materials concerned, including development of software, software security test, amendment and copying of software, and so on.

Data security means that data or information which is owned or created by the system is kept in full, effective and legally used without being destroyed or disclosed, including input, output, recognition of users, access control, back up and restore, and so forth.

Operation security indicates that system resources are legally used, including power management, environment (including air-conditioner), personnel, admission and exit control of rooms for computer, data and medium management, operation management, etc.

As you design or modify your computer and network security, think about how you want to use your systems and what you stand to lose if security is compromised. This will help guide your choice of solutions and their relative complexity and cost.

1. Fill in the blanks without referring to the passage

The only safe computer is a _____ (1) computer, or at least a _____ (2) ^{dead} one. If no one can get to it, no one can harm it. The only problem is, it's not exactly _____ (3) ^{useful} in that state. So the extent of computer security is always a _____ (4) ^{tradeoff} between putting the computer to use and restricting its misuse and abuse. The time and money you spend on _____ (5) ^{securing} your computer has to be weighed against the likely loss if it is broken into or _____ (6) ^{damaged}; e.g. , you are not likely to keep your garbage under lock and key.

2. Answer the following questions according to the passage

(1). Is an absolutely safe computer a perfect computer? Why?

No. The only safe computer is a dead computer, or at least a disconnected one. It's not exactly useful in that state.

(2). What is computer security?

Computer security is defined by ISO as follows: a technological and administrative safeguard which is made or accepted for data processing system to prevent computer hardware and software from being accidentally or maliciously destroyed, alternated or exposed.

(3). What does computer security mainly consist of?

The range of computer security covers physical security, software security, data security and operation security, etc.

2. Answer the following questions according to the passage

(5). Can you describe the main content of data security?

Data security means that data or information which is owned or created by the system is kept in full, effective and legally used without being destroyed or disclosed, including input, output, recognition of users, access control, back up and restore, and so forth.

(6). When you design or modify your computer and network security, what you should think about?

As you design or modify your computer and network security, think about how you want to use your systems and what you stand to lose if security is compromised.

3. Complete each of the following statements according to the passage

1. The range of computer security covers physical security, _____ security, data security and operation security, etc. software
2. Physical security means that the devices of computer system and its relevant facilities work regularly .
3. Software security refers to the integrity _____ of software.
4. Data security _____ means that data or information which is owned or created by the system is kept in full, effective and legally used.
5. Operation security indicates that system resources _____ are legally used.
6. The extent of computer security is always a tradeoff _____ between putting the computer to use and restricting its misuse.

4. Translate the following sentences into English.

(1) 清单1展示了该表的定义。(is defined)

Listing 1 shows how this table is defined.

(2) 其理由如下。(as follows)

The reasons are as follows.

(3) 解锁手机，以防止不必要的检查。(prevent from)

Unlock your phone to prevent from unwanted checks.

(4) 病人可以食用苹果、香蕉、芒果等。(so forth)

The patient can have apples, bananas, mangos, and so forth.

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