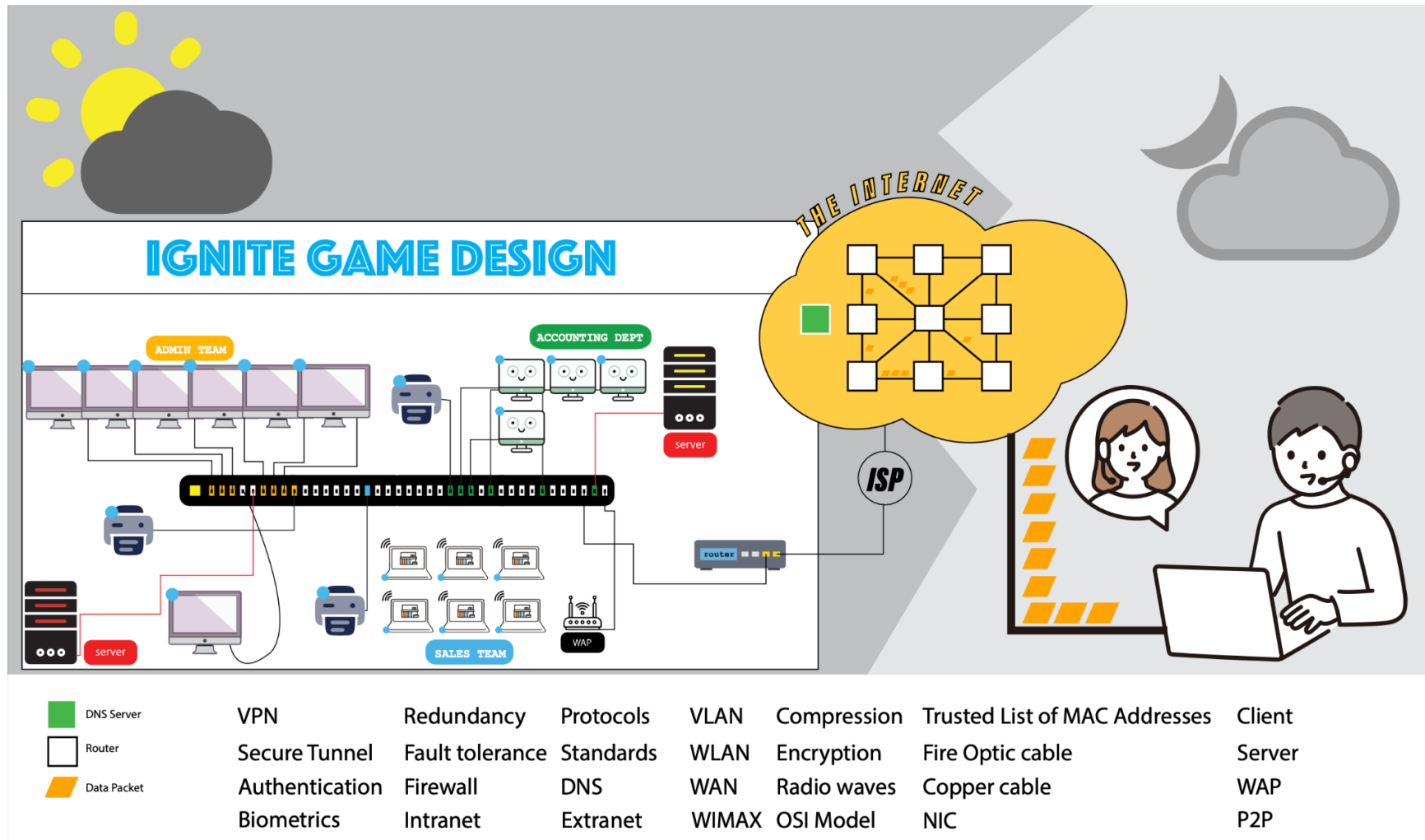




Consider the key terms listed under the image of a remote worker trying to access his company's private intranet via a public network.

**Task 1** - List each kind of network you can find in the list here. Cross them off the list with a pen or pencil. If the network type is presented as an acronym, can you remember the full name?

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**EXAM QUESTION**

Identify 3 pieces of technology required to implement a VPN **[3]**.

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**EXAM QUESTION**

Identify 1 advantage and one disadvantage of turning a LAN into a W-LAN **[2]**.

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**Task 2** - List each type of transmission media that you can find in the list here:

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**EXAM QUESTION**

Outline 1 advantage of using fibre optic cable as a transmission media, and one drawback: **[4]**.

**Task 3** - List each type of **network security measure** that you can find in the list here. Cross them off the list with a pen or pencil:

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**Task 4** - Find the terms **redundancy** and **fault tolerance** and cross them off the list. Write a sentence which describes the Internet using these ideas.

**Task 5** - Computers on a network (including the Internet) serve different purposes. Identify as many different computers which serve a different purpose on a network such as the Internet. Write them down here and cross them off the list (you may have already crossed some out so be sure to reuse them here, too).

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**EXAM QUESTION**

Outline the role of a DNS server on a public network such as the Internet: **[2]**.

**Task 6** - OSI MODEL - Cross this term off the list and write the name of each layer in the OSI model here:

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Layers in the OSI Model are responsible for taking files of data, breaking them into packets, stamping each packet with essential information such as **Sender IP Address, Receiver IP Address, Packet Number** etc.

**EXAM QUESTION**

How does each layer know exactly what needs to be done during its part of the process **[2]**?  
*There is a word in the set of terms that will help you to answer this question.*

Find the term **Data Compression** and cross it off the list.

**EXAM QUESTION**

Outline the importance of data compression when transferring data across a network **[2]**?

*Are there any terms remaining that you have yet to cross out? Work together with a classmate(s) and make sure that you understand what the term means and if it has any advantages or disadvantages.*

**NOTES**