

Farming in the Online Age: Staying Safe



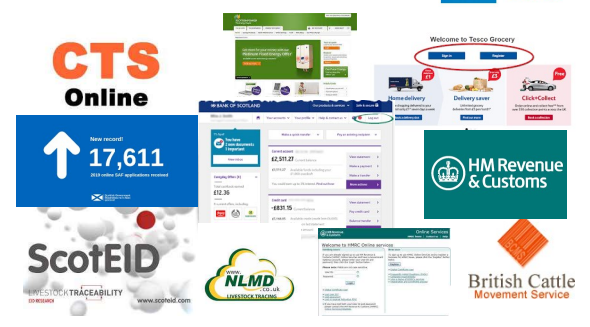

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Farming in the Online Age



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Agenda

What & where is the risk?

Protecting yourself: passwords

Phishing

Malware

Fraud

First Aid

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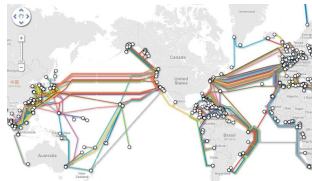
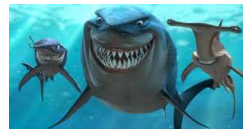
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This 'New' Internet

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1971 – USSR uses underwater cables to communicate between naval bases.

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Cyber Crime

Cyber crime is any crime where computers or technology is involved. Often featuring:

- Criminals intercepting an email chain
- Criminals pretending to be legitimate businesses selling things
- Criminals pretending to be your bank


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Hackers



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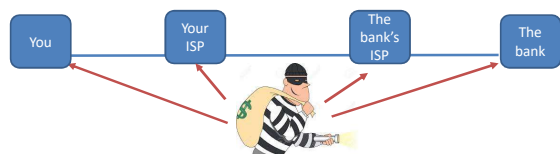
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Where does the greatest weakness lie?

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ISP: Internet Service Provider



Passwords

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- Protect your device and sensitive data with a password

- Computer
- Tablet
- Laptop
- Mobile



Password Bingo

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Write password down	Family members names as Password	Didn't change default Password
'123456' as your Password	'Your Date of Birth' as your Password	'Password' as your Password
Use the same password on multiple accounts	Added a number to the end of an old Password.	Shared your password with someone



How are Passwords Cracked?

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Interception



Brute Force



Shoulder Surfing



Guessing



How are Passwords Cracked?

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Searching



Stealing



Social Engineering



Key Logging



Common Passwords

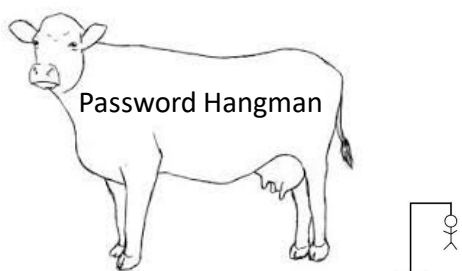
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password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Complex Passwords

G!@asg3

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Passwords - Safer Methods

Think Three Random Words

- embark jewel neuron
- Game of thrones
- my fluffy dog
- du5ky myster1ous c@det

Think Random!

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Passwords Safety

- Strong unique passphrase for every account
- Use a security tool to help you store and create passwords securely. - Password Manager



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Increasing Security

2FA = Two Factor Authentication



The user enters in their username and password.

An authentication code is sent to the user's mobile device.

The user enters in their authentication code to log into the application.

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Next steps

- ❑ 3 word passphrase
- ❑ Use a password manager
- ❑ Turn on 2FA

<https://www.ncsc.gov.uk/>

<https://www.getsafeonline.org/>

<https://www.cyberaware.gov.uk/>

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Phishing



Phishing is a type of fraud where criminals use fake emails or website to obtain personal information and/or to get people to pay money.



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Phishing for what?



- Sign-in / log-in details for a website
 - Email account
 - Bank
 - PayPal
 - Other websites
- Transmit malware



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Phishing



- The 'bait' is a seemingly legitimate email asking you to provide some information.



Most fishing involves setting many lines in the hope that at least some fish 'bite'.

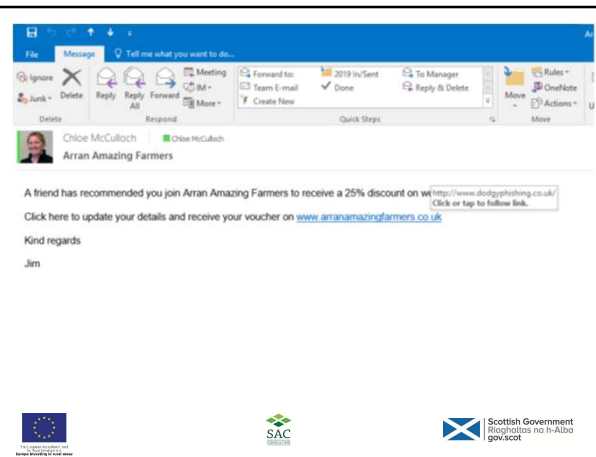


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Phishing Bait



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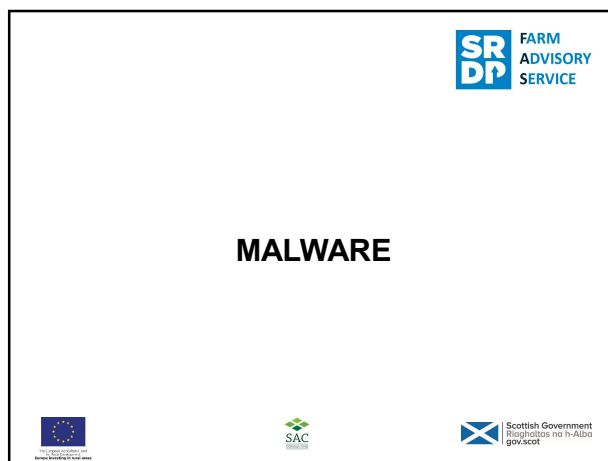
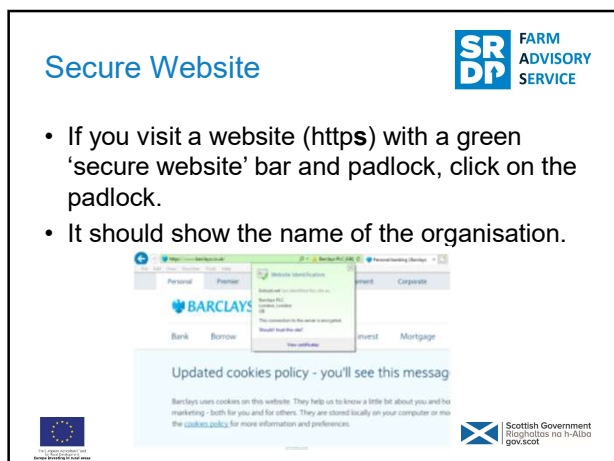
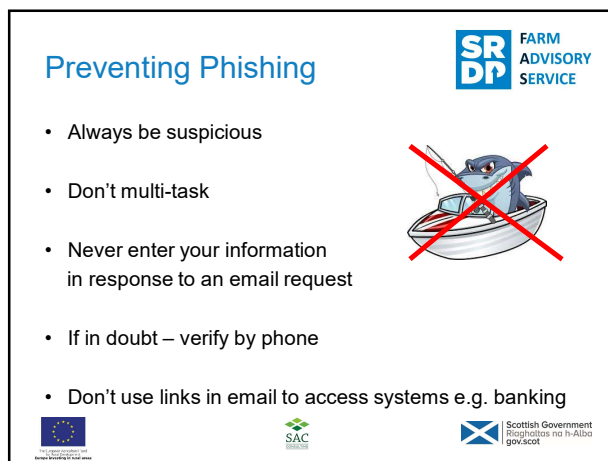
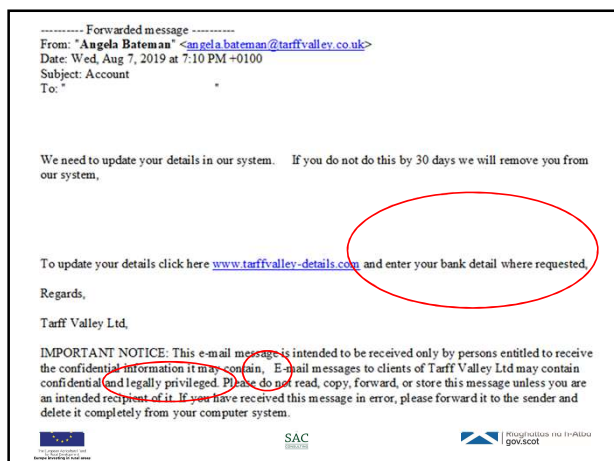
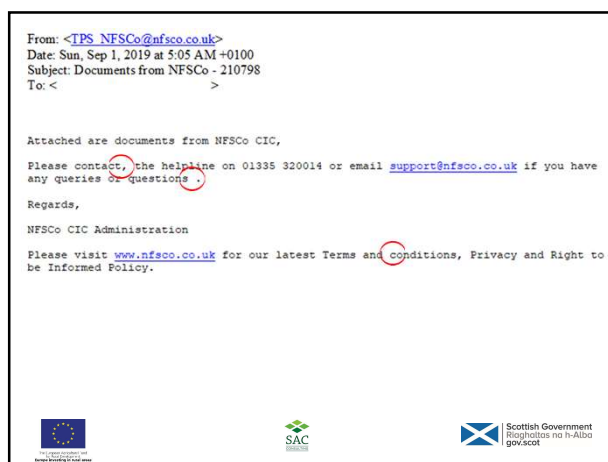
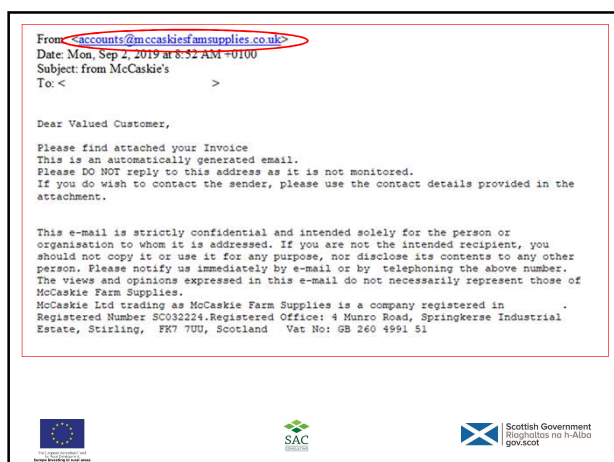
Detecting Phishing



- Look for things which are a bit odd
 - Incorrect email addresses
 - Grammar and spelling
 - Inconsistencies
 - Unlikely scenarios
- Is there a sense of urgency?
- Do they fail to address you personally?



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Malware



Malicious software - includes viruses, trojans, worms or any code or content that could have an adverse impact on an organisation or individuals. (NCSC)



Types of Malware



- Viruses
 - Programs which can self replicate and are designed to infect legitimate software programs or systems.
- Trojan
 - A Trojan horse or Trojan is a type of malware that is often disguised as, or in, legitimate software. Trojans can be employed by cyber-thieves and hackers trying to gain access to users' systems.



Types of Malware



- Ransomware
 - A type of malware, designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by unknowingly visiting an infected website. Ransomware can be devastating to an individual or an organisation.



Avoiding Malware



- Backup Data
 - Identify important data, files and documents and back them up **regularly**
 - Ensure the backup device is not permanently connected to the network
 - Consider using the cloud



Avoiding Malware



- Install anti-virus software from legitimate sources
- Update programmes and apps – use automatic update if possible
- What version of Windows do you have?
- Switch on the Firewall



Using Public Wifi



- Beware of open wifi!
- Alternatives – 4G wireless hotspot from phone



Summary



- Keep your devices safe
 - Enable password or other recognition systems
 - Configure your device so it can be remotely tracked / locked / wiped if lost or stolen
 - Keep software and apps up-to-date
 - use automatic update
 - When sending sensitive data don't use a public network
 - Replace devices that are no longer supported by the manufacturer



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Summary



- Use passwords
 - Use encryption products on PCs and laptops
 - Enable PIN / Password / Fingerprint recognition
 - Avoid predictable password / PIN
 - Change default password / PIN
 - Consider using a password manager
 - If available - use Two Factor Authentication (2FA) for sensitive information



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Summary



Be aware of Malware

- Malware can be introduced in a number of ways
- Use anti-virus software and keep it up-to-date
- Where possible use automatic update on apps, operating systems and programmes
- Be suspicious of emails from unexpected sources – authenticate before opening any attachments or links



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First Aid



Do you know who you would contact?

At the bank?

Computer specialist?

If your computer is compromised then knowing what to do, in the right order, is important. This is a specialist job. Make sure you know who you will phone/where you will take it!



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First Aid



- Disconnect from the internet immediately. Pull out plug from router too.
- Contact the bank.
- Tell your friends and colleagues to beware of suspicious messages.
- Contact a computer specialist.



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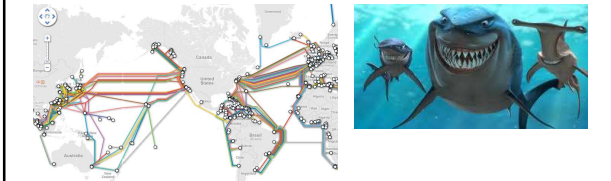
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Hackers



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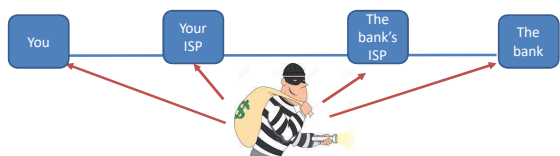
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Where does the greatest weakness lie?

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ISP: Internet Service Provider



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Passwords

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- Computer
- Tablet
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Password Bingo

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How are Passwords Cracked?

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Interception



Brute Force



Shoulder Surfing



Guessing



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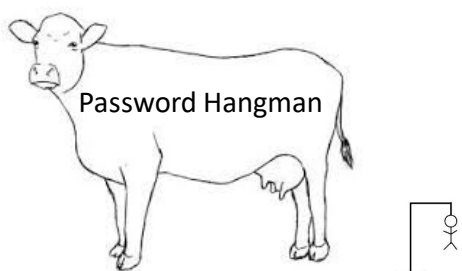
password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Complex Passwords

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Passwords - Safer Methods

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Increasing Security

2FA = Two Factor Authentication



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Next steps

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Phishing



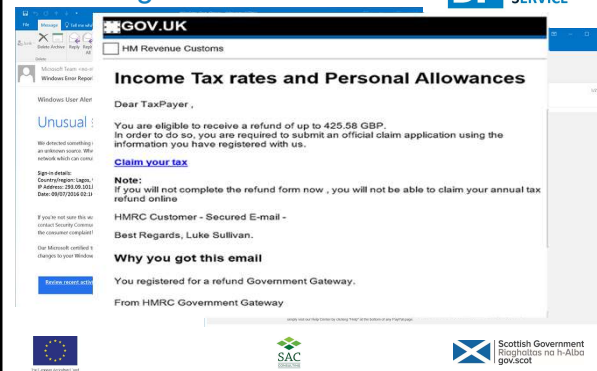
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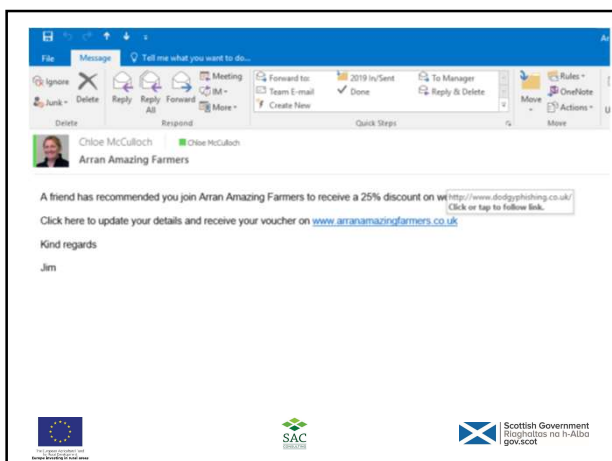
Phishing Bait

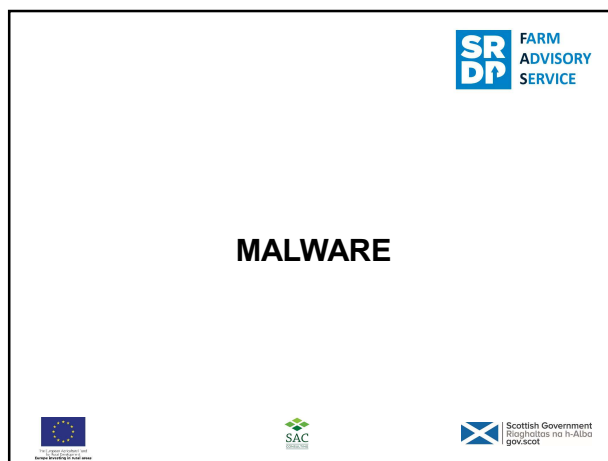
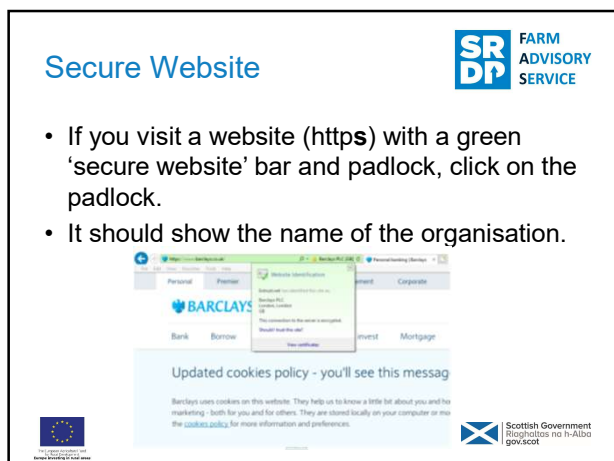
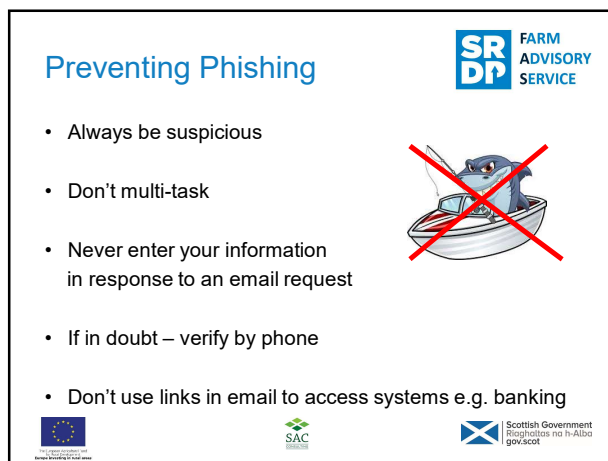
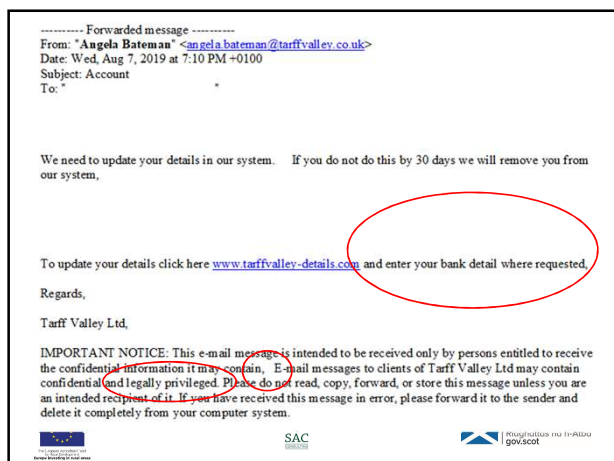
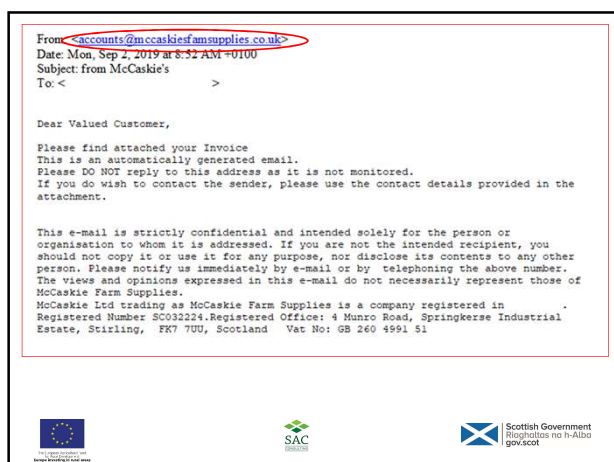


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Malware



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Types of Malware



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Types of Malware



- **Ransomware**
 - A type of malware, designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by unknowingly visiting an infected website. Ransomware can be devastating to an individual or an organisation.



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Avoiding Malware



- **Backup Data**
 - Identify important data, files and documents and back them up **regularly**
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 - Consider using the cloud



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Using Public Wifi



- Beware of open wifi!
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Summary



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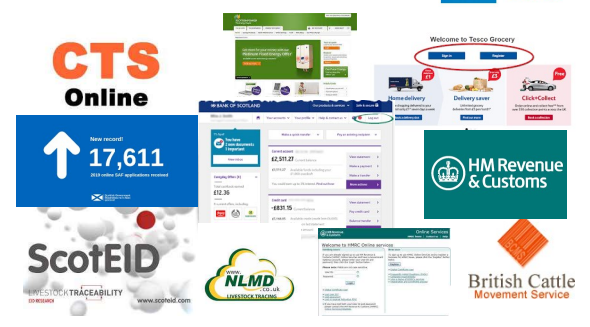

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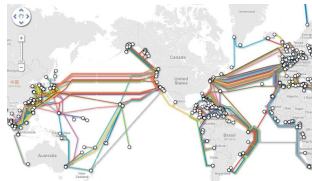
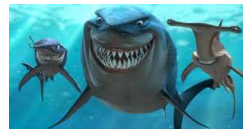
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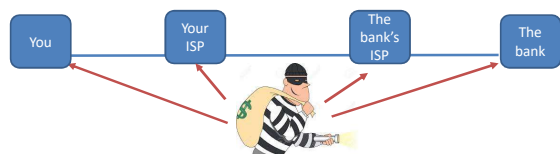
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ISP: Internet Service Provider



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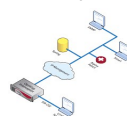
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Guessing



How are Passwords Cracked?

SRDP FARM
ADVISORY
SERVICE

Searching



Stealing



Social Engineering



Key Logging



Common Passwords

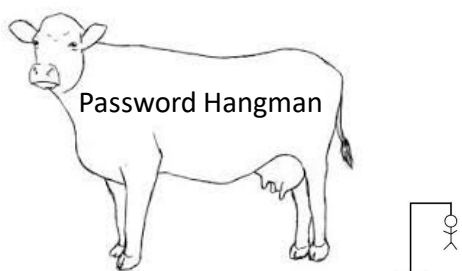
SRDP FARM
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SERVICE

password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Complex Passwords

G!@asg3

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Passwords - Safer Methods

Think Three Random Words

- embark jewel neuron
- Game of thrones
- my fluffy dog
- du5ky myster1ous c@det

Think Random!

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Passwords Safety

- Strong unique passphrase for every account
- Use a security tool to help you store and create passwords securely. - Password Manager



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Increasing Security

2FA = Two Factor Authentication



The user enters in their username and password.

An authentication code is sent to the user's mobile device.

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Next steps

- ❑ 3 word passphrase
- ❑ Use a password manager
- ❑ Turn on 2FA

<https://www.ncsc.gov.uk/>

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Phishing



Phishing is a type of fraud where criminals use fake emails or website to obtain personal information and/or to get people to pay money.



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Phishing for what?



- Sign-in / log-in details for a website
 - Email account
 - Bank
 - PayPal
 - Other websites
- Transmit malware



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Phishing



- The 'bait' is a seemingly legitimate email asking you to provide some information.



Most fishing involves setting many lines in the hope that at least some fish 'bite'.

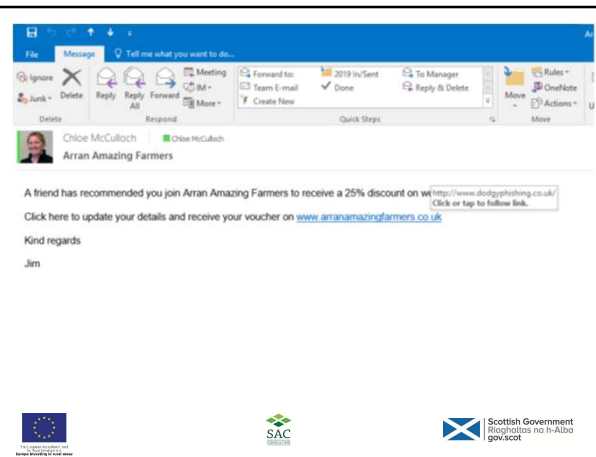


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Phishing Bait



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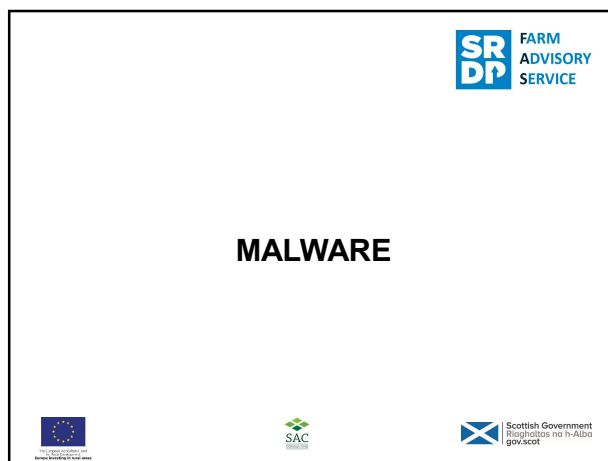
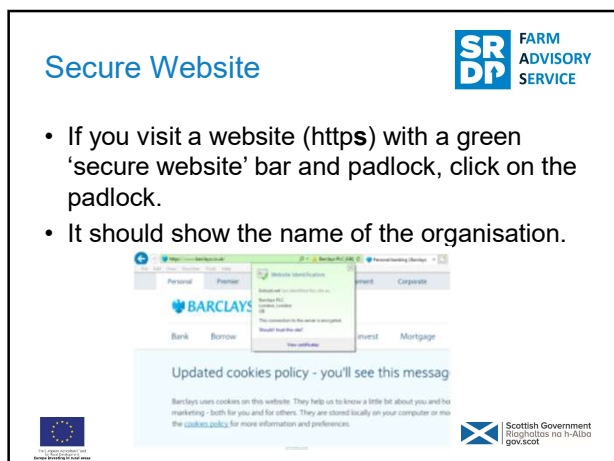
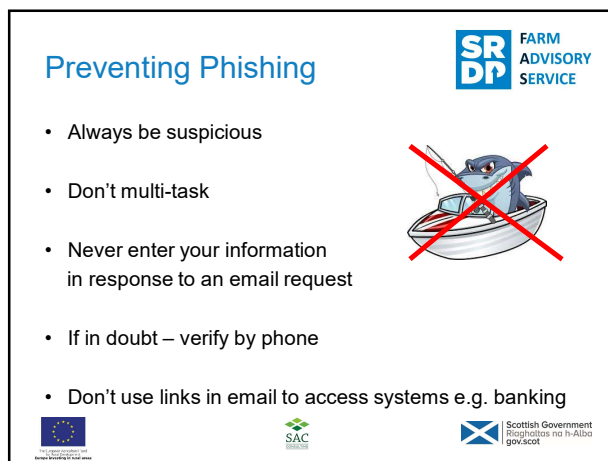
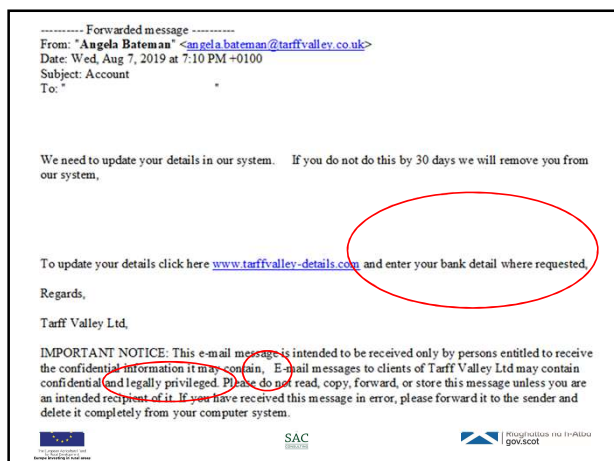
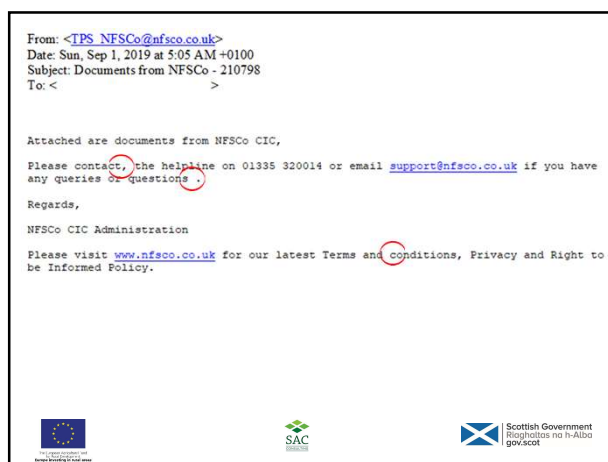
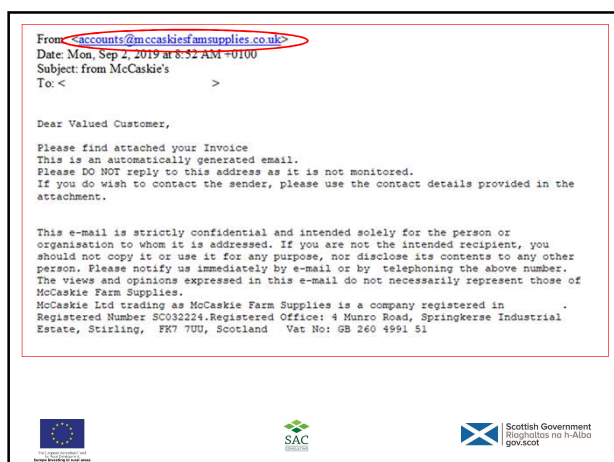
Detecting Phishing



- Look for things which are a bit odd
 - Incorrect email addresses
 - Grammar and spelling
 - Inconsistencies
 - Unlikely scenarios
- Is there a sense of urgency?
- Do they fail to address you personally?



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Malware



Malicious software - includes viruses, trojans, worms or any code or content that could have an adverse impact on an organisation or individuals. (NCSC)



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Types of Malware



- Viruses
 - Programs which can self replicate and are designed to infect legitimate software programs or systems.
- Trojan
 - A Trojan horse or Trojan is a type of malware that is often disguised as, or in, legitimate software. Trojans can be employed by cyber-thieves and hackers trying to gain access to users' systems.



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Types of Malware



- Ransomware
 - A type of malware, designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by unknowingly visiting an infected website. Ransomware can be devastating to an individual or an organisation.



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Avoiding Malware



- Backup Data
 - Identify important data, files and documents and back them up **regularly**
 - Ensure the backup device is not permanently connected to the network
 - Consider using the cloud



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Avoiding Malware



- Install anti-virus software from legitimate sources
- Update programmes and apps – use automatic update if possible
- What version of Windows do you have?
- Switch on the Firewall



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Using Public Wifi



- Beware of open wifi!
- Alternatives – 4G wireless hotspot from phone



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Summary



- Keep your devices safe
 - Enable password or other recognition systems
 - Configure your device so it can be remotely tracked / locked / wiped if lost or stolen
 - Keep software and apps up-to-date
 - use automatic update
 - When sending sensitive data don't use a public network
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Summary



- Use passwords
 - Use encryption products on PCs and laptops
 - Enable PIN / Password / Fingerprint recognition
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Summary



Be aware of Malware

- Malware can be introduced in a number of ways
- Use anti-virus software and keep it up-to-date
- Where possible use automatic update on apps, operating systems and programmes
- Be suspicious of emails from unexpected sources – authenticate before opening any attachments or links



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First Aid



Do you know who you would contact?

At the bank?

Computer specialist?

If your computer is compromised then knowing what to do, in the right order, is important. This is a specialist job. Make sure you know who you will phone/where you will take it!



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First Aid



- Disconnect from the internet immediately. Pull out plug from router too.
- Contact the bank.
- Tell your friends and colleagues to beware of suspicious messages.
- Contact a computer specialist.



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THANK YOU



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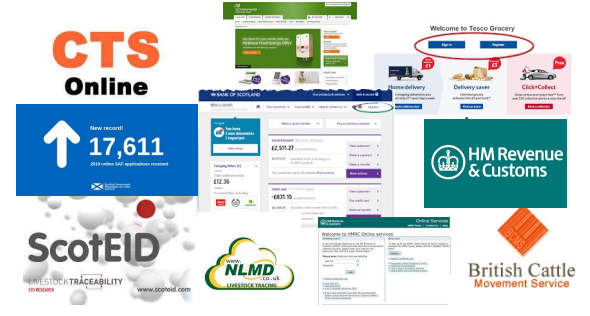
Farming in the Online Age: Staying Safe




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Farming in the Online Age



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Agenda

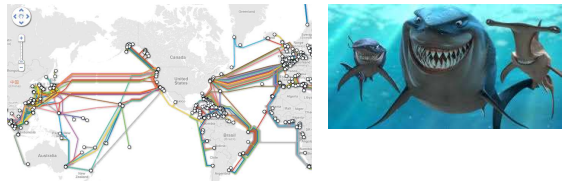
What & where is the risk?
Protecting yourself: passwords
Phishing
Malware
Fraud
First Aid

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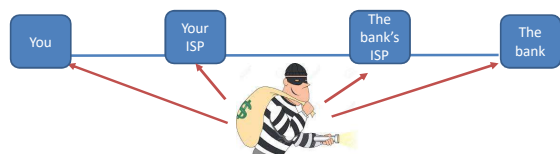


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Where does the greatest weakness lie?

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ISP: Internet Service Provider



Passwords

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- Protect your device and sensitive data with a password

- Computer
- Tablet
- Laptop
- Mobile



Password Bingo

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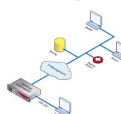
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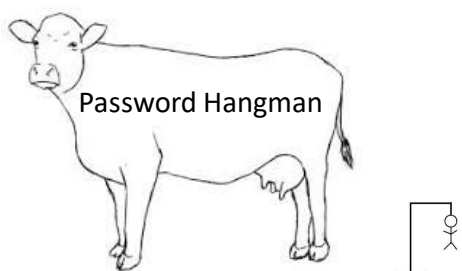
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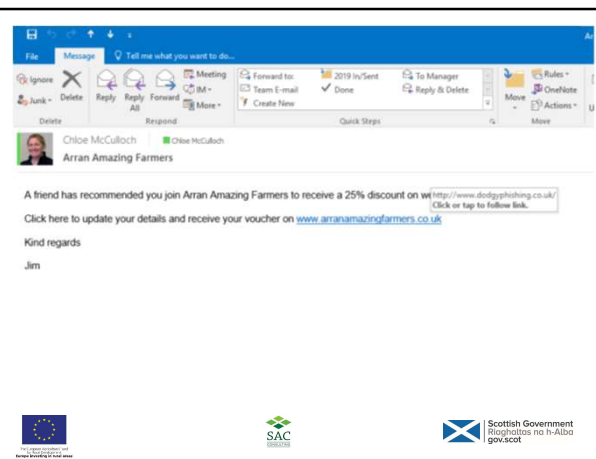
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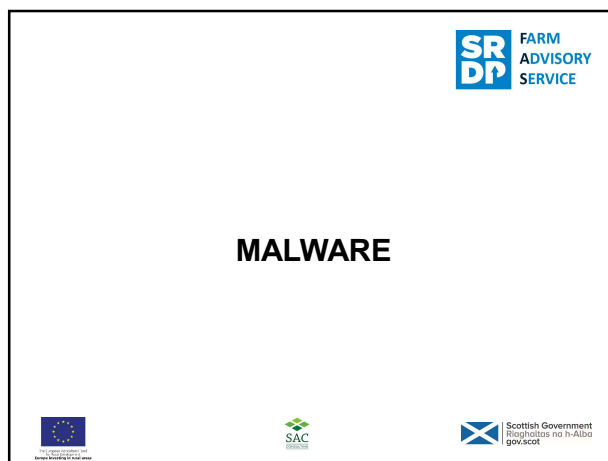
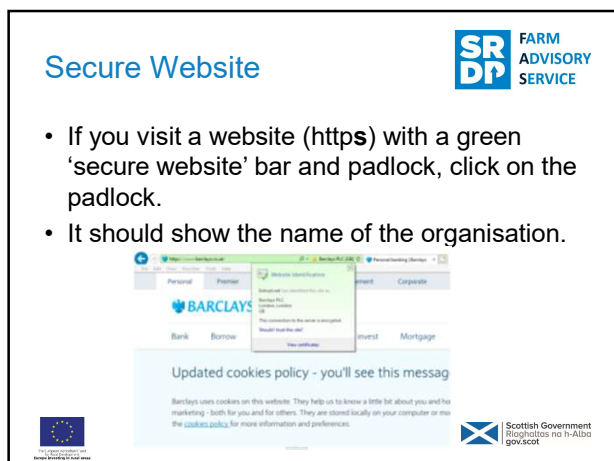
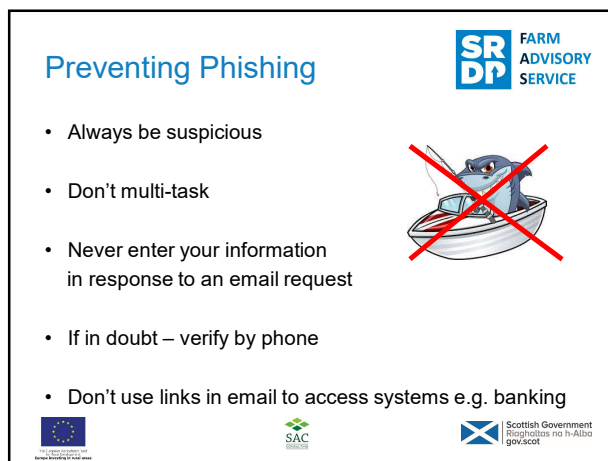
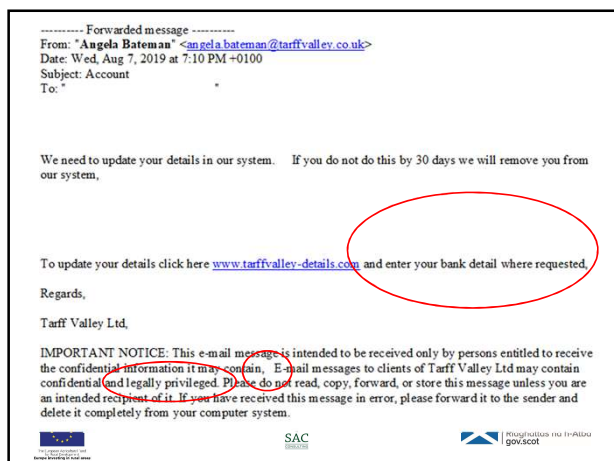
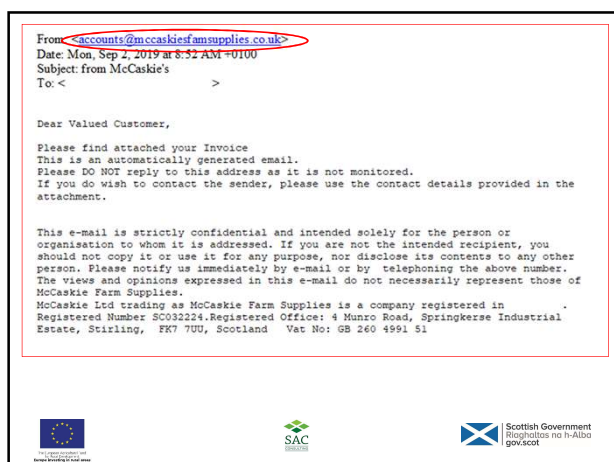


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THANK YOU



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Farming in the Online Age



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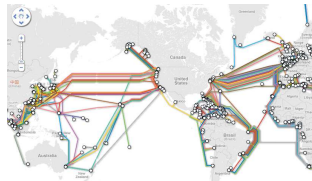
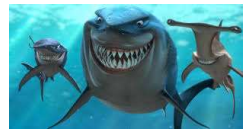
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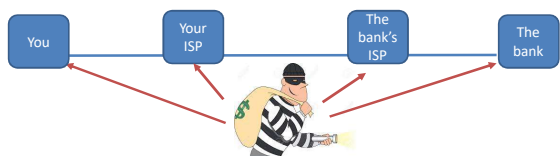
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Where does the greatest weakness lie?

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ISP: Internet Service Provider



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Passwords

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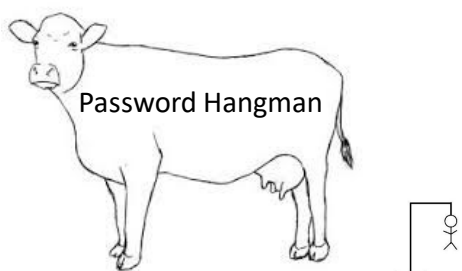
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Password Hangman



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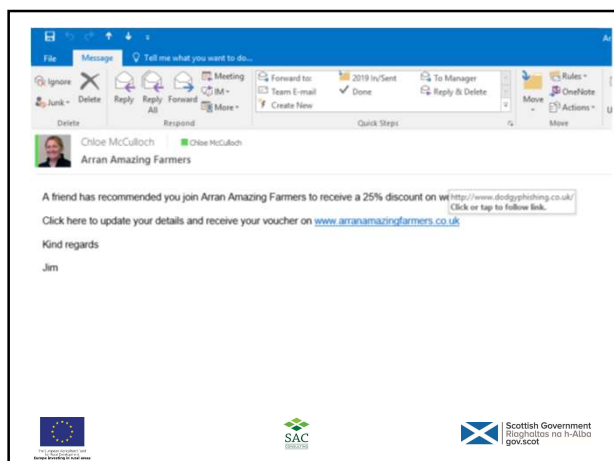
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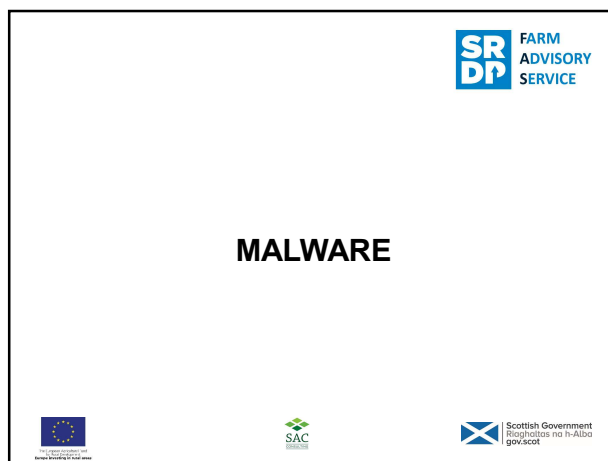
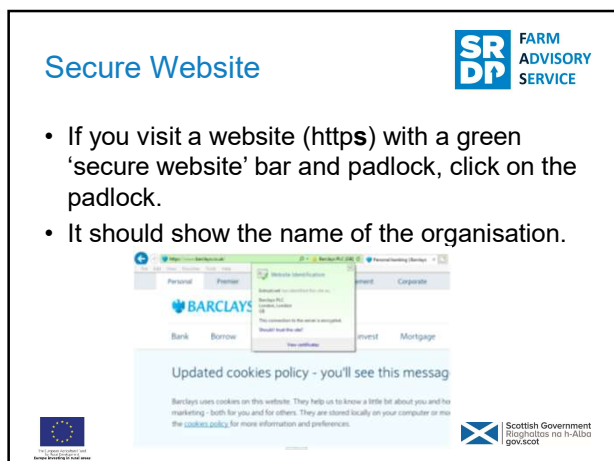
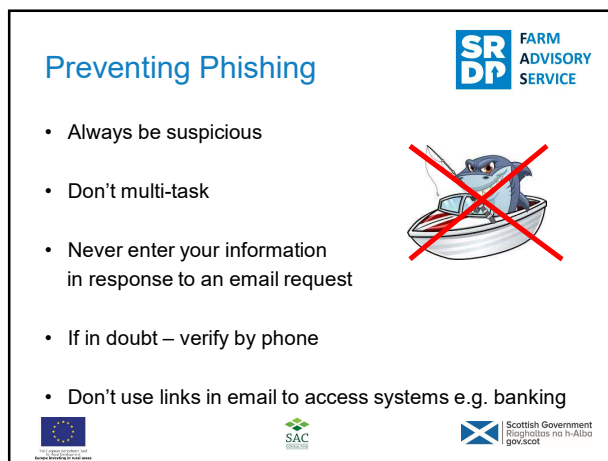
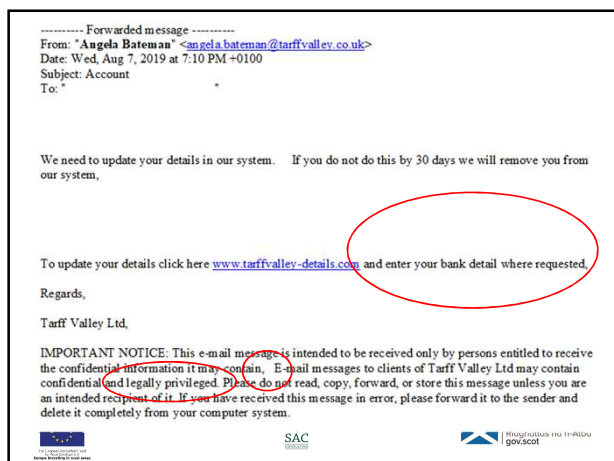
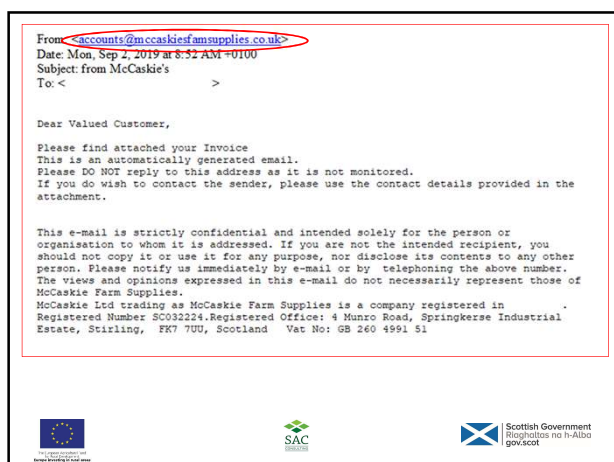


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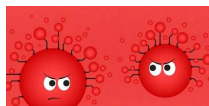




Malware



Malicious software - includes viruses, trojans, worms or any code or content that could have an adverse impact on an organisation or individuals. (NCSC)



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Types of Malware



- Viruses
 - Programs which can self replicate and are designed to infect legitimate software programs or systems.
- Trojan
 - A Trojan horse or Trojan is a type of malware that is often disguised as, or in, legitimate software. Trojans can be employed by cyber-thieves and hackers trying to gain access to users' systems.



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Types of Malware



- Ransomware
 - A type of malware, designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by unknowingly visiting an infected website. Ransomware can be devastating to an individual or an organisation.



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Avoiding Malware



- Backup Data
 - Identify important data, files and documents and back them up **regularly**
 - Ensure the backup device is not permanently connected to the network
 - Consider using the cloud



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Avoiding Malware



- Install anti-virus software from legitimate sources
- Update programmes and apps – use automatic update if possible
- What version of Windows do you have?
- Switch on the Firewall



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Using Public Wifi



- Beware of open wifi!
- Alternatives – 4G wireless hotspot from phone



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Summary



- Keep your devices safe
 - Enable password or other recognition systems
 - Configure your device so it can be remotely tracked / locked / wiped if lost or stolen
 - Keep software and apps up-to-date
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 - When sending sensitive data don't use a public network
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Summary



- Use passwords
 - Use encryption products on PCs and laptops
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Summary



Be aware of Malware

- Malware can be introduced in a number of ways
- Use anti-virus software and keep it up-to-date
- Where possible use automatic update on apps, operating systems and programmes
- Be suspicious of emails from unexpected sources – authenticate before opening any attachments or links



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First Aid



Do you know who you would contact?

At the bank?

Computer specialist?

If your computer is compromised then knowing what to do, in the right order, is important. This is a specialist job. Make sure you know who you will phone/where you will take it!



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First Aid



- Disconnect from the internet immediately. Pull out plug from router too.
- Contact the bank.
- Tell your friends and colleagues to beware of suspicious messages.
- Contact a computer specialist.



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Farming in the Online Age: Staying Safe




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Farming in the Online Age



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Agenda

What & where is the risk?

Protecting yourself: passwords

Phishing

Malware

Fraud

First Aid

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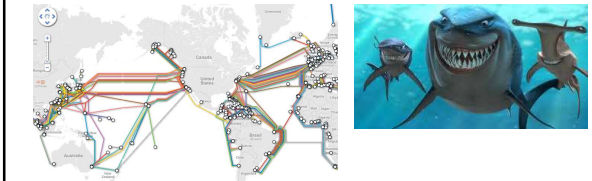
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Hackers



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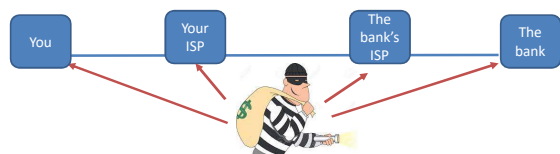
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Where does the greatest weakness lie?

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ISP: Internet Service Provider



Passwords

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- Protect your device and sensitive data with a password

- Computer
- Tablet
- Laptop
- Mobile



Password Bingo

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Write password down	Family members names as Password	Didn't change default Password
'123456' as your Password	'Your Date of Birth' as your Password	'Password' as your Password
Use the same password on multiple accounts	Added a number to the end of an old Password.	Shared your password with someone



How are Passwords Cracked?

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Interception



Brute Force



Shoulder Surfing



Guessing



How are Passwords Cracked?

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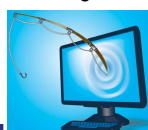
Searching



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Common Passwords

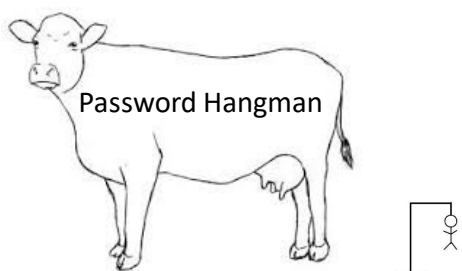
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password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Complex Passwords

G!@asg3

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Passwords - Safer Methods

Think Three Random Words

- embark jewel neuron
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Think Random!

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Passwords Safety

- Strong unique passphrase for every account
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Increasing Security

2FA = Two Factor Authentication



The user enters in their username and password.

An authentication code is sent to the user's mobile device.

The user enters in their authentication code to log into the application.

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Next steps

- ❑ 3 word passphrase
- ❑ Use a password manager
- ❑ Turn on 2FA

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Phishing



Phishing is a type of fraud where criminals use fake emails or website to obtain personal information and/or to get people to pay money.



Phishing for what?



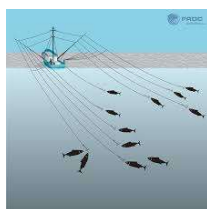
- Sign-in / log-in details for a website
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 - PayPal
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Phishing



- The 'bait' is a seemingly legitimate email asking you to provide some information.



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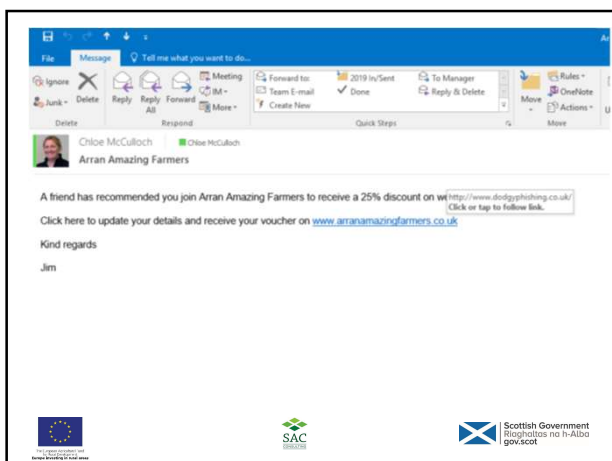
Phishing Bait

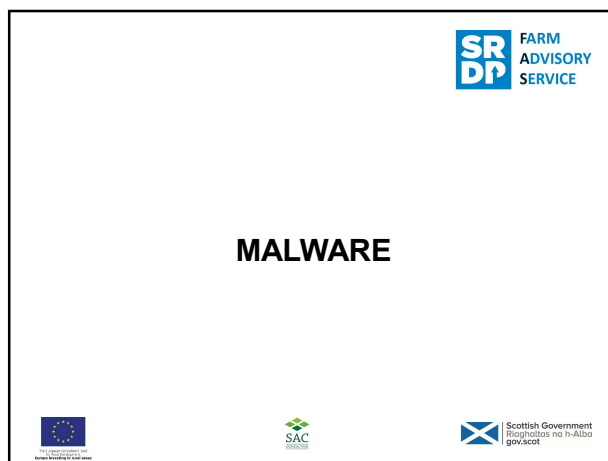
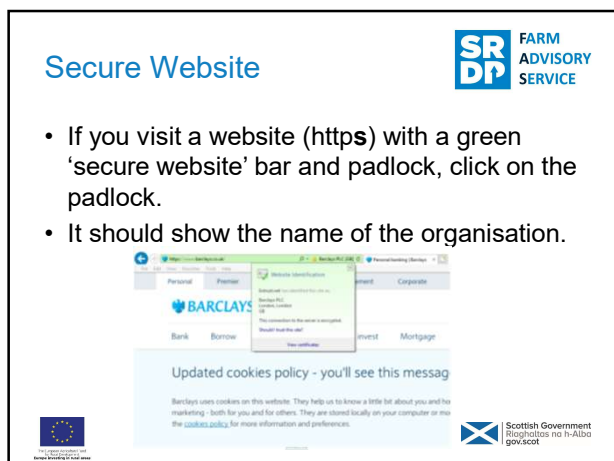
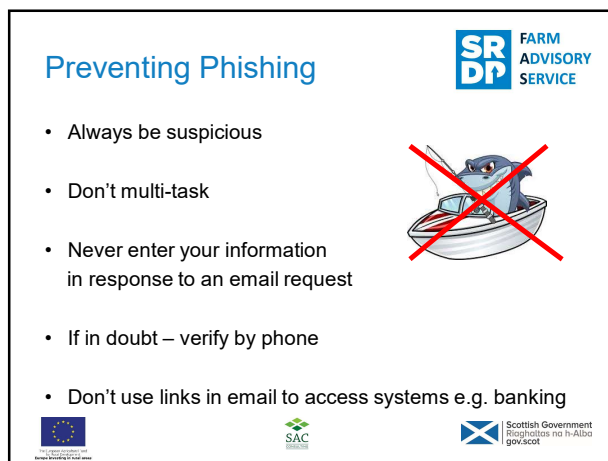
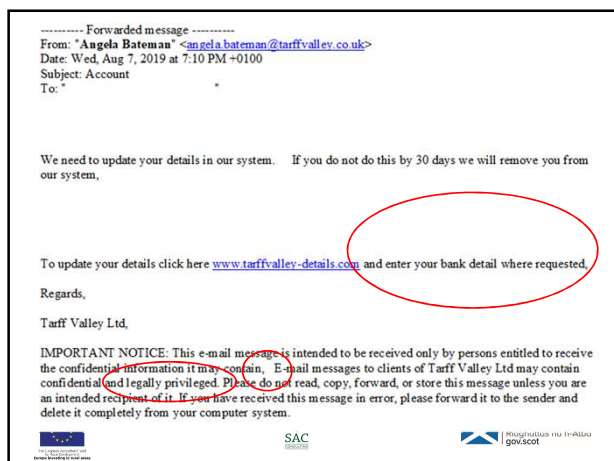
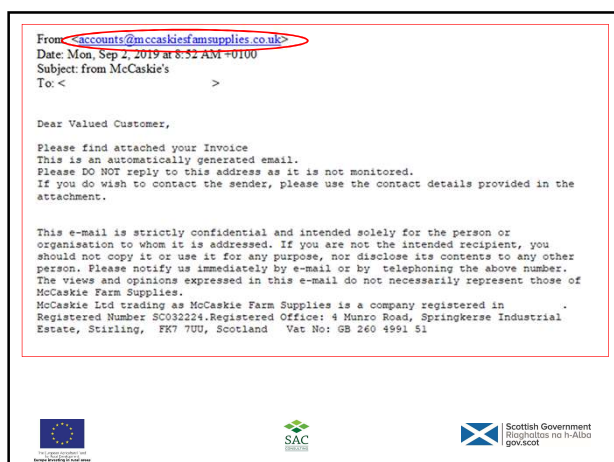


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Avoiding Malware



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Summary



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Farming in the Online Age: Staying Safe




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Farming in the Online Age



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Agenda

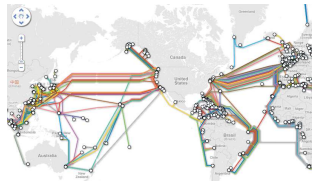
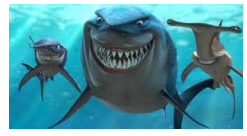
What & where is the risk?
Protecting yourself: passwords
Phishing
Malware
Fraud
First Aid

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Hackers

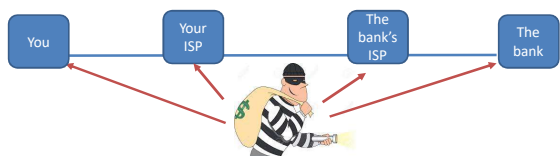


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Where does the greatest weakness lie?

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ISP: Internet Service Provider



Passwords

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- Protect your device and sensitive data with a password

- Computer
- Tablet
- Laptop
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Password Bingo

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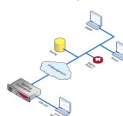
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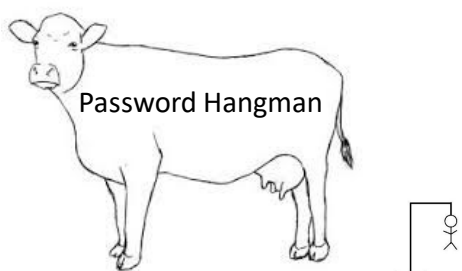
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SERVICE

password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Complex Passwords

G!@asg3

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Passwords - Safer Methods

Think Three Random Words

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Next steps

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Phishing for what?



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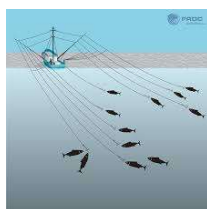


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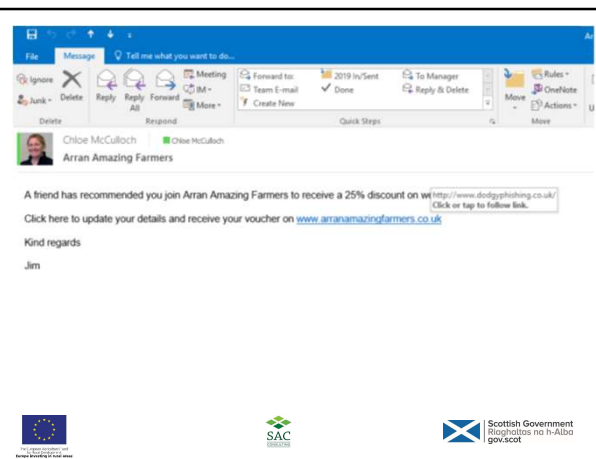


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Phishing Bait



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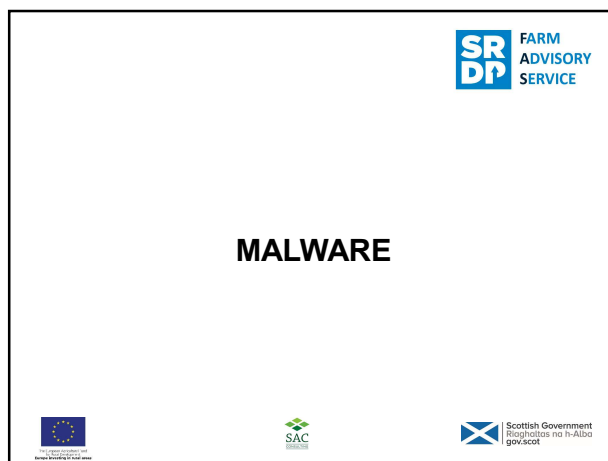
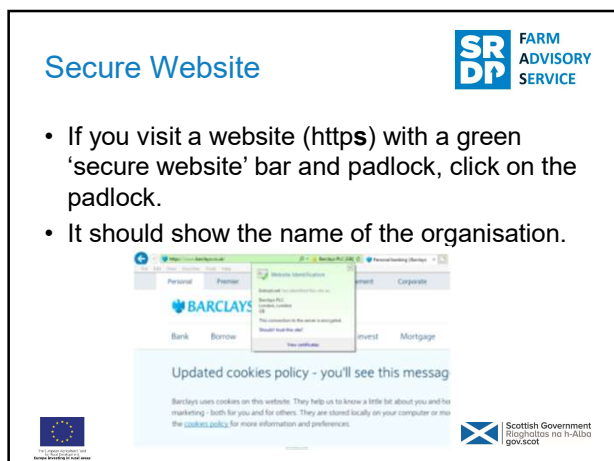
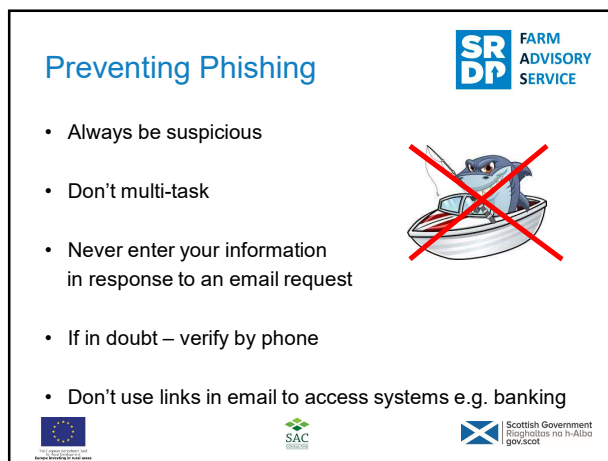
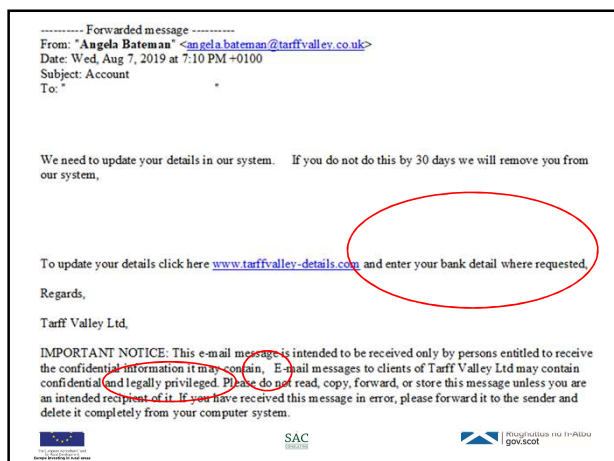
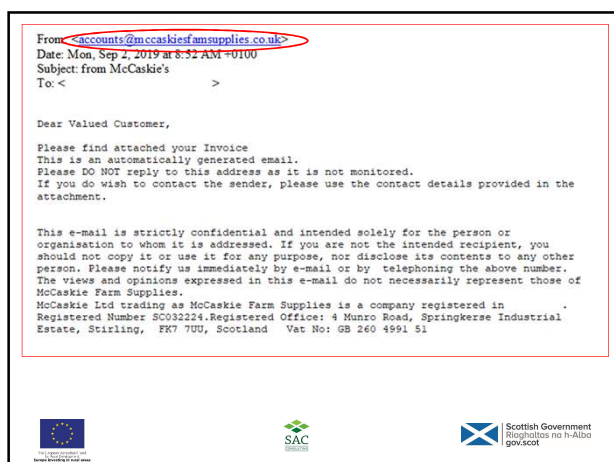
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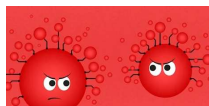
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THANK YOU



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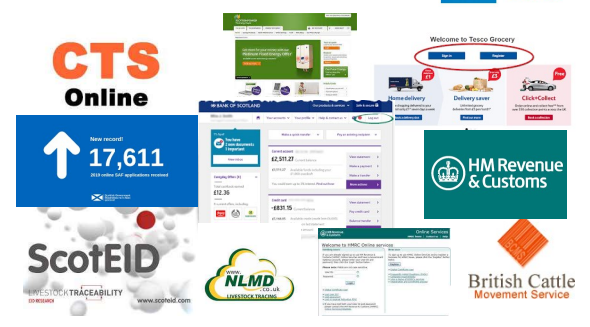
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Farming in the Online Age



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Agenda

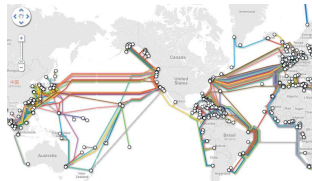
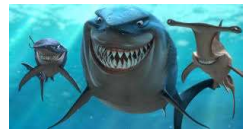
What & where is the risk?
Protecting yourself: passwords
Phishing
Malware
Fraud
First Aid

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This 'New' Internet

1858 – installation of cable from Newfoundland and Ireland completed.
1971 – USSR uses underwater cables to communicate between naval bases.

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Cyber Crime


Cyber crime is any crime where computers or technology is involved. Often featuring:

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- Criminals pretending to be your bank

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Hackers

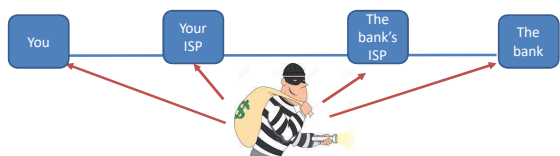


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Where does the greatest weakness lie?

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SERVICE



ISP: Internet Service Provider



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Passwords

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- Protect your device and sensitive data with a password

- Computer
- Tablet
- Laptop
- Mobile



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Password Bingo

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ADVISORY
SERVICE

Write password down	Family members names as Password	Didn't change default Password
'123456' as your Password	'Your Date of Birth' as your Password	'Password' as your Password
Use the same password on multiple accounts	Added a number to the end of an old Password.	Shared your password with someone



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How are Passwords Cracked?

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ADVISORY
SERVICE

Interception



Brute Force



Shoulder Surfing



Guessing



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Key Logging



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Common Passwords

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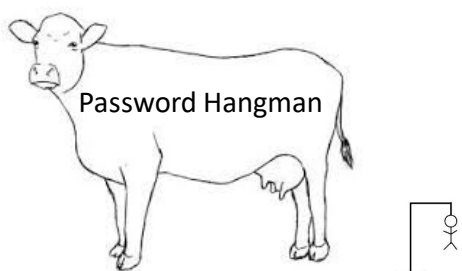
password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Complex Passwords

G!@asg3

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Passwords - Safer Methods

Think Three Random Words

- embark jewel neuron
- Game of thrones
- my fluffy dog
- du5ky myster1ous c@det

Think Random!

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Passwords Safety

- Strong unique passphrase for every account
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Increasing Security

2FA = Two Factor Authentication



The user enters in their username and password.

An authentication code is sent to the user's mobile device.

The user enters in their authentication code to log into the application.

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Next steps

- ❑ 3 word passphrase
- ❑ Use a password manager
- ❑ Turn on 2FA

<https://www.ncsc.gov.uk/>

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Phishing



Phishing is a type of fraud where criminals use fake emails or website to obtain personal information and/or to get people to pay money.



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Phishing for what?



- Sign-in / log-in details for a website
 - Email account
 - Bank
 - PayPal
 - Other websites
- Transmit malware



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Phishing



- The 'bait' is a seemingly legitimate email asking you to provide some information.



Most fishing involves setting many lines in the hope that at least some fish 'bite'.

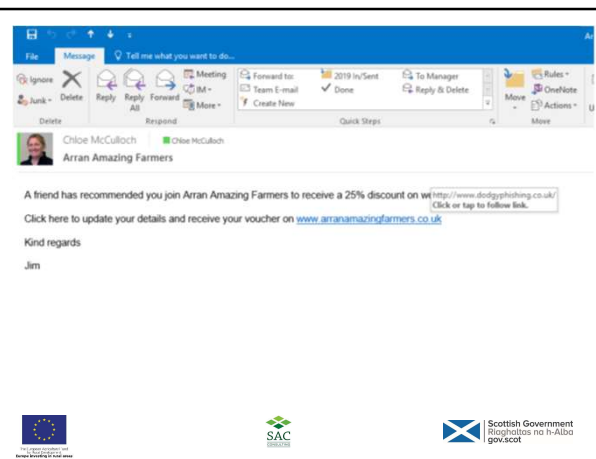


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Phishing Bait



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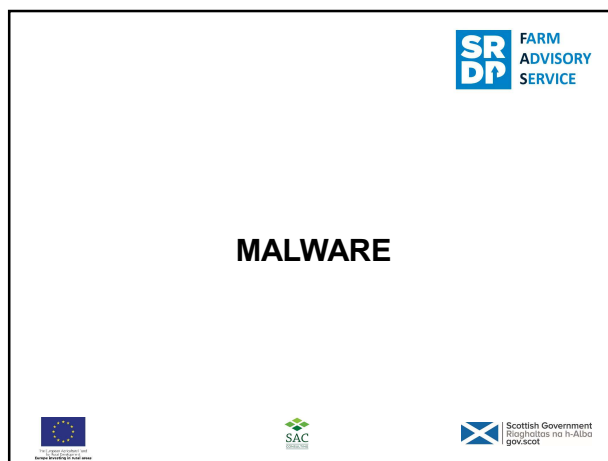
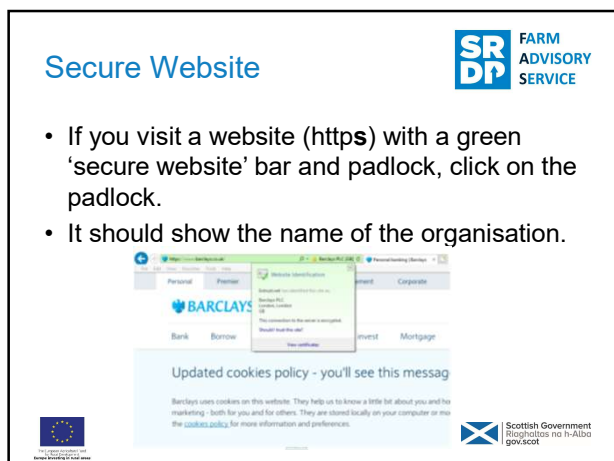
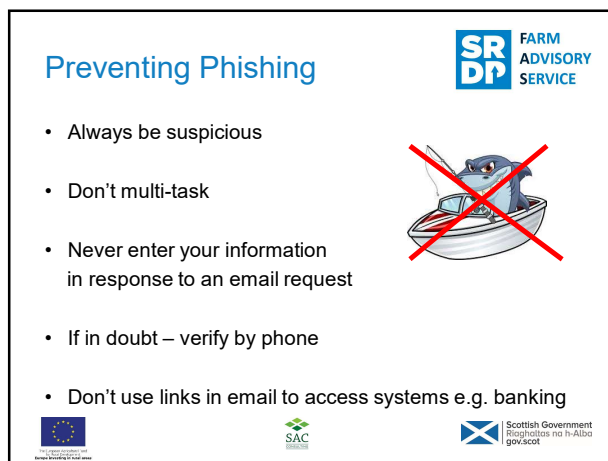
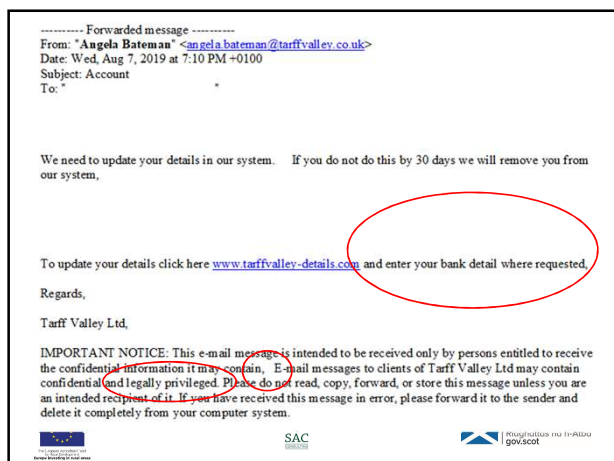
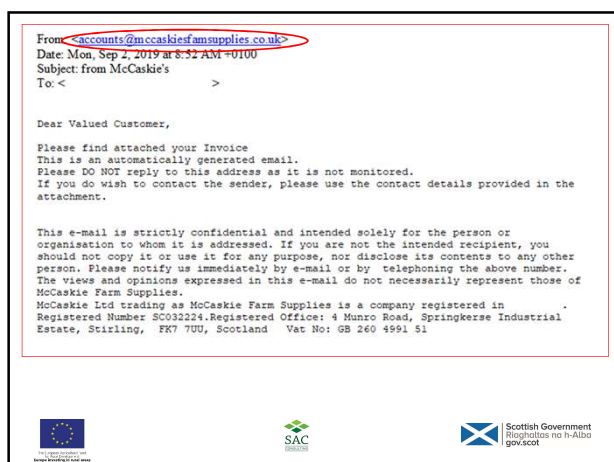
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- Look for things which are a bit odd
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 - Grammar and spelling
 - Inconsistencies
 - Unlikely scenarios
- Is there a sense of urgency?
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Malware



Malicious software - includes viruses, trojans, worms or any code or content that could have an adverse impact on an organisation or individuals. (NCSC)



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Types of Malware



- **Viruses**
 - Programs which can self replicate and are designed to infect legitimate software programs or systems.
- **Trojan**
 - A Trojan horse or Trojan is a type of malware that is often disguised as, or in, legitimate software. Trojans can be employed by cyber-thieves and hackers trying to gain access to users' systems.



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Types of Malware



- **Ransomware**
 - A type of malware, designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by unknowingly visiting an infected website. Ransomware can be devastating to an individual or an organisation.



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Avoiding Malware



- **Backup Data**
 - Identify important data, files and documents and back them up **regularly**
 - Ensure the backup device is not permanently connected to the network
 - Consider using the cloud



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Avoiding Malware



- Install anti-virus software from legitimate sources
- Update programmes and apps – use automatic update if possible
- What version of Windows do you have?
- Switch on the Firewall



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Using Public Wifi



- Beware of open wifi!
- Alternatives – 4G wireless hotspot from phone



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Summary



- Keep your devices safe
 - Enable password or other recognition systems
 - Configure your device so it can be remotely tracked / locked / wiped if lost or stolen
 - Keep software and apps up-to-date
 - use automatic update
 - When sending sensitive data don't use a public network
 - Replace devices that are no longer supported by the manufacturer



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Summary



- Use passwords
 - Use encryption products on PCs and laptops
 - Enable PIN / Password / Fingerprint recognition
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 - Consider using a password manager
 - If available - use Two Factor Authentication (2FA) for sensitive information



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Summary



Be aware of Malware

- Malware can be introduced in a number of ways
- Use anti-virus software and keep it up-to-date
- Where possible use automatic update on apps, operating systems and programmes
- Be suspicious of emails from unexpected sources – authenticate before opening any attachments or links



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First Aid



Do you know who you would contact?

At the bank?

Computer specialist?

If your computer is compromised then knowing what to do, in the right order, is important. This is a specialist job. Make sure you know who you will phone/where you will take it!



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First Aid



- Disconnect from the internet immediately. Pull out plug from router too.
- Contact the bank.
- Tell your friends and colleagues to beware of suspicious messages.
- Contact a computer specialist.



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THANK YOU



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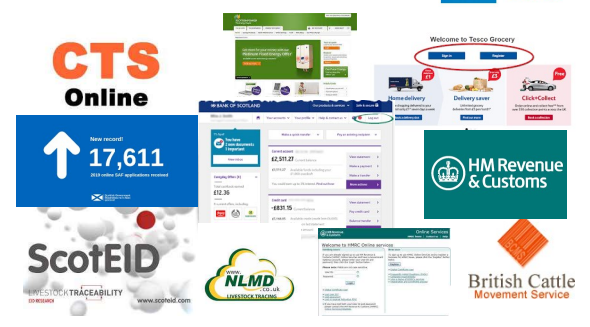
Farming in the Online Age: Staying Safe




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Farming in the Online Age



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Agenda

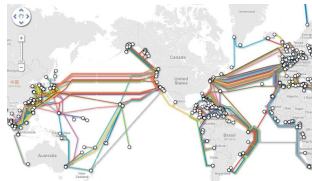
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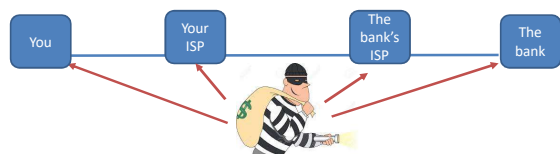


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Where does the greatest weakness lie?

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ISP: Internet Service Provider



Passwords

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- Protect your device and sensitive data with a password

- Computer
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Password Bingo

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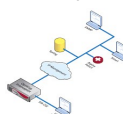
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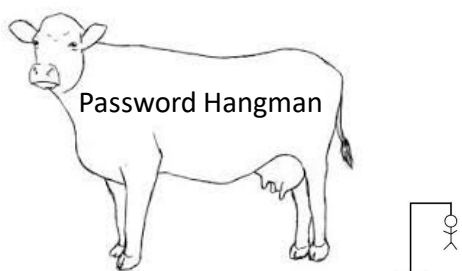
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password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Next steps

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Phishing



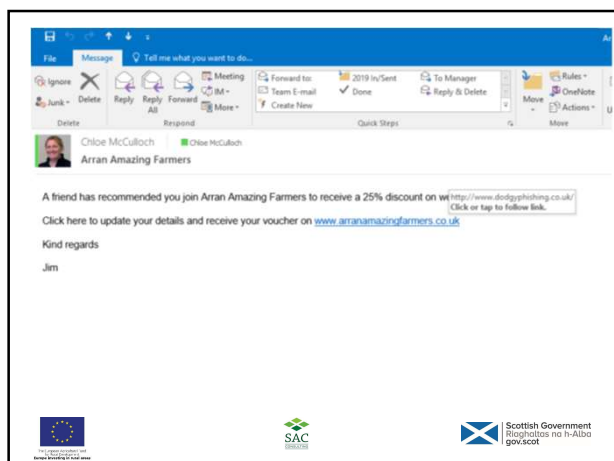
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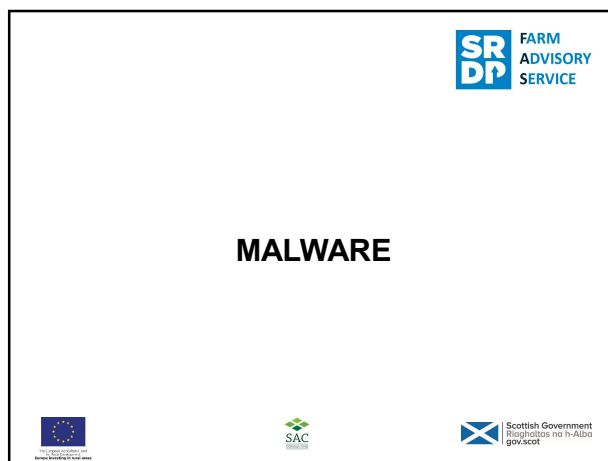
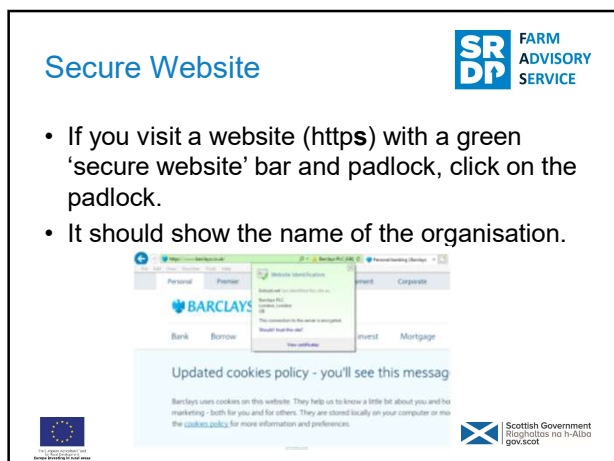
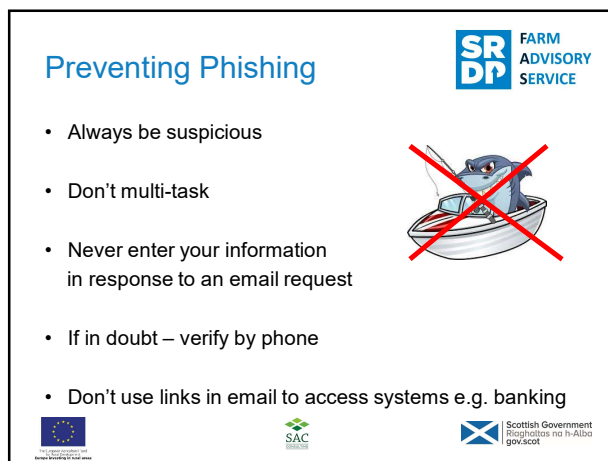
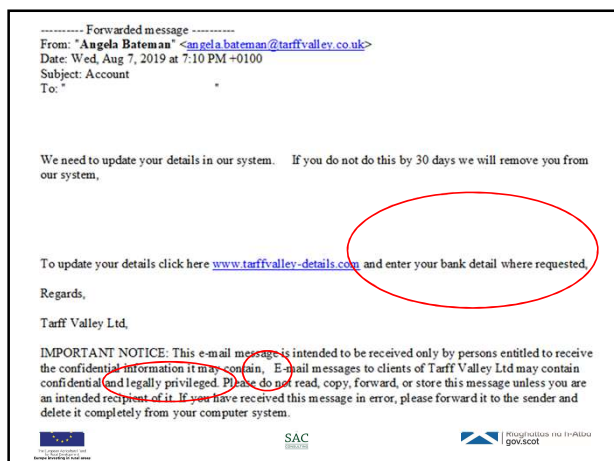
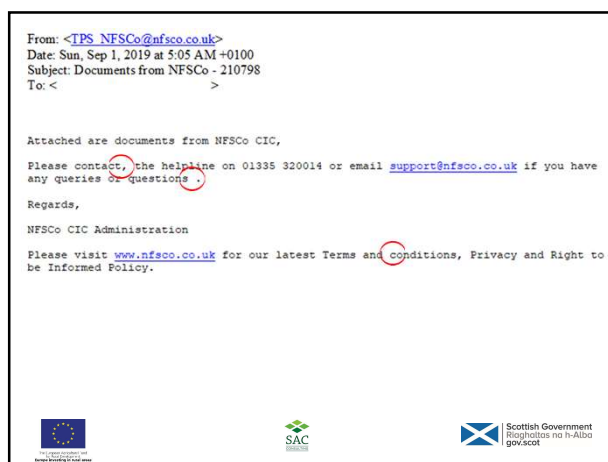
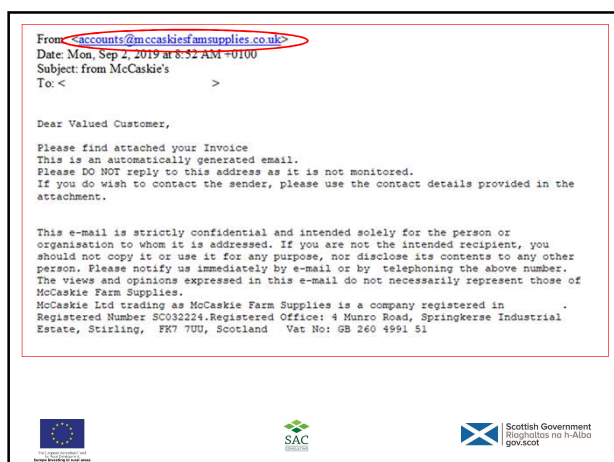


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Malware



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Types of Malware



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Types of Malware



- Ransomware
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Avoiding Malware



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Using Public Wifi



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Summary



- Keep your devices safe
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THANK YOU



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Farming in the Online Age: Staying Safe



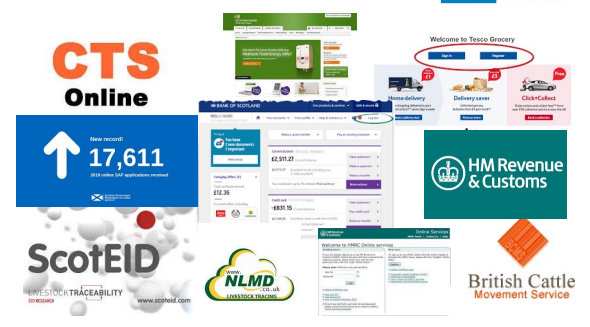

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Farming in the Online Age



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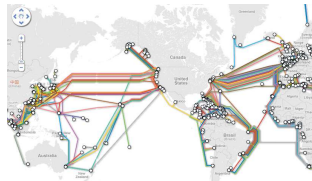
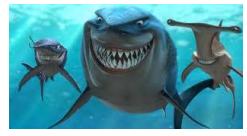
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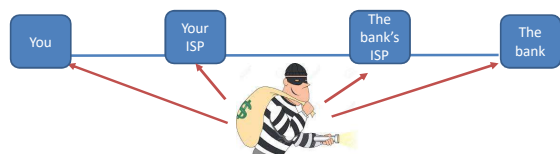
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Where does the greatest weakness lie?

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SERVICE



ISP: Internet Service Provider



Passwords

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ADVISORY
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Password Bingo

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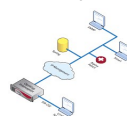
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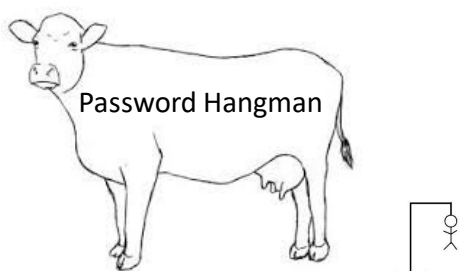
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SERVICE

password	666666
123456	123123
sunshine	monkey
qwerty	charlie
iloveyou	654321
princess	!@#%&*^
admin	aa123456
welcome	donald
abc123	querty123
football	password1



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Password Hangman



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Increasing Security

2FA = Two Factor Authentication



The user enters in their username and password.

An authentication code is sent to the user's mobile device.

The user enters in their authentication code to log into the application.

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SRDP FARM ADVISORY SERVICE

Next steps

- ❑ 3 word passphrase
- ❑ Use a password manager
- ❑ Turn on 2FA

<https://www.ncsc.gov.uk/>

<https://www.getsafeonline.org/>

<https://www.cyberaware.gov.uk/>

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Phishing



Phishing is a type of fraud where criminals use fake emails or website to obtain personal information and/or to get people to pay money.



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Phishing for what?



- Sign-in / log-in details for a website
 - Email account
 - Bank
 - PayPal
 - Other websites
- Transmit malware



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Phishing



- The 'bait' is a seemingly legitimate email asking you to provide some information.



Most fishing involves setting many lines in the hope that at least some fish 'bite'.

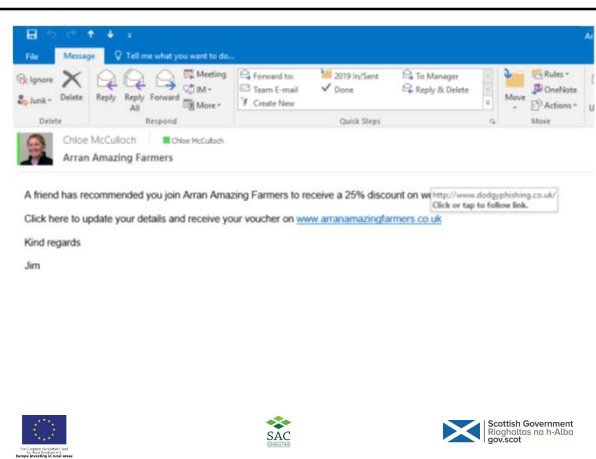


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Phishing Bait



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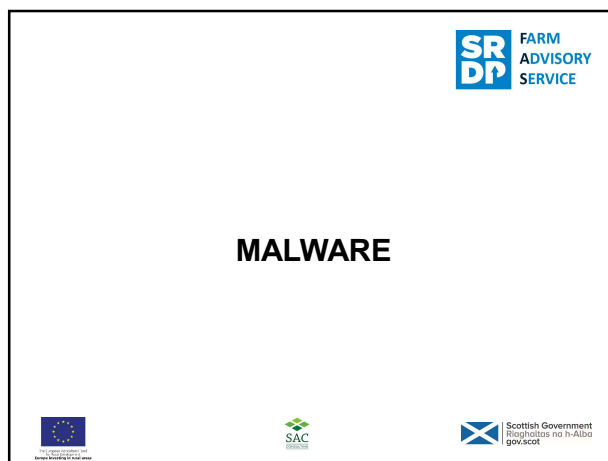
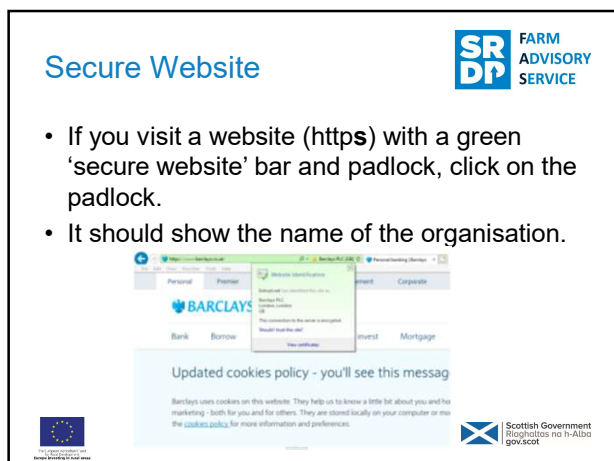
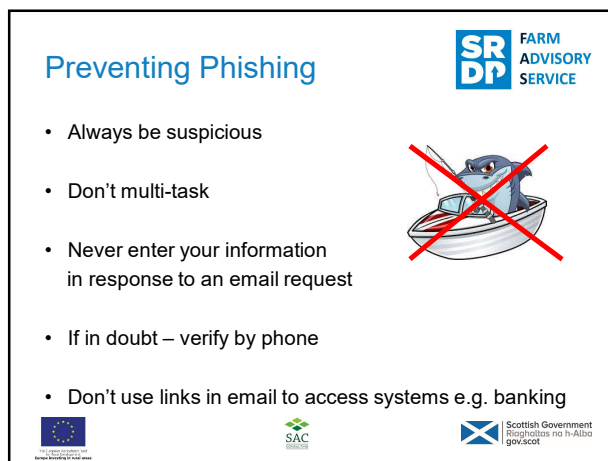
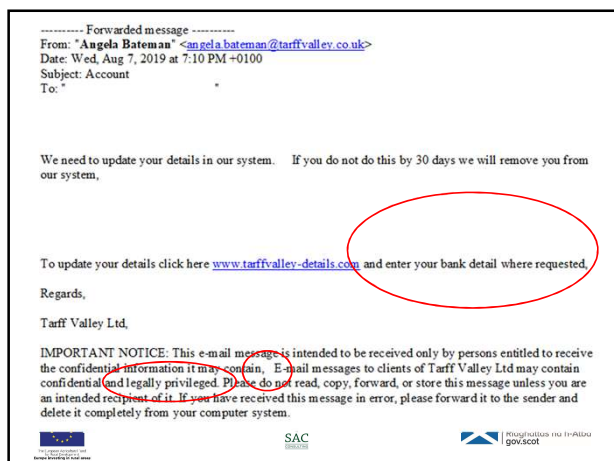
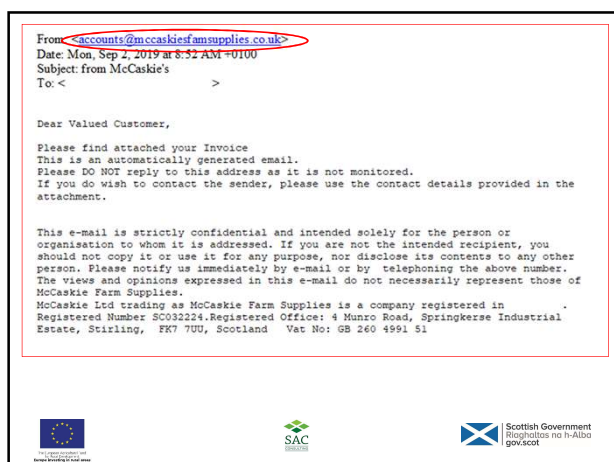
Detecting Phishing



- Look for things which are a bit odd
 - Incorrect email addresses
 - Grammar and spelling
 - Inconsistencies
 - Unlikely scenarios
- Is there a sense of urgency?
- Do they fail to address you personally?



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Malware



Malicious software - includes viruses, trojans, worms or any code or content that could have an adverse impact on an organisation or individuals. (NCSC)



Types of Malware



- Viruses
 - Programs which can self replicate and are designed to infect legitimate software programs or systems.
- Trojan
 - A Trojan horse or Trojan is a type of malware that is often disguised as, or in, legitimate software. Trojans can be employed by cyber-thieves and hackers trying to gain access to users' systems.



Types of Malware



- Ransomware
 - A type of malware, designed to deny access to a computer system or data until a ransom is paid. Ransomware typically spreads through phishing emails or by unknowingly visiting an infected website. Ransomware can be devastating to an individual or an organisation.



Avoiding Malware



- Backup Data
 - Identify important data, files and documents and back them up **regularly**
 - Ensure the backup device is not permanently connected to the network
 - Consider using the cloud



Avoiding Malware



- Install anti-virus software from legitimate sources
- Update programmes and apps – use automatic update if possible
- What version of Windows do you have?
- Switch on the Firewall



Using Public Wifi



- Beware of open wifi!
- Alternatives – 4G wireless hotspot from phone



Summary



- Keep your devices safe
 - Enable password or other recognition systems
 - Configure your device so it can be remotely tracked / locked / wiped if lost or stolen
 - Keep software and apps up-to-date
 - use automatic update
 - When sending sensitive data don't use a public network
 - Replace devices that are no longer supported by the manufacturer



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Summary



- Use passwords
 - Use encryption products on PCs and laptops
 - Enable PIN / Password / Fingerprint recognition
 - Avoid predictable password / PIN
 - Change default password / PIN
 - Consider using a password manager
 - If available - use Two Factor Authentication (2FA) for sensitive information



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Summary



Be aware of Malware

- Malware can be introduced in a number of ways
- Use anti-virus software and keep it up-to-date
- Where possible use automatic update on apps, operating systems and programmes
- Be suspicious of emails from unexpected sources – authenticate before opening any attachments or links



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First Aid



Do you know who you would contact?

At the bank?

Computer specialist?

If your computer is compromised then knowing what to do, in the right order, is important. This is a specialist job. Make sure you know who you will phone/where you will take it!



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First Aid



- Disconnect from the internet immediately. Pull out plug from router too.
- Contact the bank.
- Tell your friends and colleagues to beware of suspicious messages.
- Contact a computer specialist.



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THANK YOU



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