

The background of the slide is a solid blue color with a large, abstract, circular graphic on the left side. This graphic is composed of many overlapping, thin, light blue lines that form a dense, swirling pattern, resembling a globe or a complex network. The text is positioned to the right of this graphic.

SentinelOne

RANSOMWARE RESEARCH DATA SUMMARY

Almost half (48%) of those surveyed state that their organization has suffered a ransomware attack in the last 12 months. Those who have been affected have had to defend against six attacks on average, with the majority (94%) stating that there was an impact on their organization as a result of these ransomware attacks. The most common impacts are increased spending on IT security (67%), change of IT security strategy to focus on mitigation (52%) and loss of confidence in existing cyber security solutions (45%).

Just under two thirds (65%) of respondents agree that traditional cyber security techniques cannot protect them from the next generation of malware like ransomware attacks. While it is under four in ten (36%) respondents who agree that their organization feels helpless to defend itself, over seven in ten (71%) agree that they need a new solution to protect organizations from ransomware.

Of those respondents whose organization has suffered a ransomware attack in the last 12 months, just over eight in ten (81%) report that the ransomware attacker gained access to their organization's network through phishing via email or social media network. Half (50%) report that the attacker gained access through a drive-by-download caused by clicking on a compromised website, and four in ten (40%) state that it was through an infection via a computer that was part of a botnet.

Fewer than half (45%) of respondents whose organization has suffered a ransomware attack in the last 12 months report that the attacker was able to encrypt some files/data, but their organization was able to decrypt them. Moreover, around a quarter state that the attacker was unable to successfully encrypt any files/data (27%), or that the attacker was able to encrypt some files/data, but a back-up was held and respondents' organizations were able to replace the encrypted files (25%). On average, this replacement process took 33 employee hours. Only a minority of respondents (3%) report that the attacker was able to encrypt some files/data, which their organization was unable to decrypt.

Of the respondents whose organization has suffered a ransomware attack in the last 12 months, employee information (42%), financial data (41%) and customer information (40%) were types of data most likely to have been affected by these attacks.

Just over six in ten (61%) respondents state that upon suffering a ransomware attack, they did or would notify the CEO/board. Around half of respondents did/would notify law enforcement (54%) and lawyers (50%), but only 38% did/would notify customers.

Just under half (48%) of those surveyed whose organization has suffered a ransomware attack in the last 12 months, report that the ransomware attacker was an opportunistic hacker and a similar number (45%) state that it was an organised cyber-criminal. In fact, over eight in ten (85%) report that their organization was able to identify the ransomware attacker. Similarly, the majority (95%) say that they have an insight into the motivation of the cyber-attackers targeting their organization. The most common motives are financial gain (54%), simple disruption to a successful business (47%) and cyber espionage (42%). Of those respondents whose organization has been able to identify the ransomware attacker, 47% report that the source of the breach was Eastern Europe and 45% state that it was within their own country.

Antivirus

Over five in ten (54%) of those surveyed agree that their organization has lost faith in traditional cyber security and over four in ten (44%) also agree that antivirus is dead. Despite this, the majority (85%) of respondents' organizations install antivirus on all company owned static devices.

| | |
|-----|---|
| 1 | Has your organisation suffered a ransomware attack in the last 12 months? |
| 2 | How did the ransomware attacker gain access to your organisation's network? |
| 3 | In the past 12 months, how many ransomware attacks has your organisation had to defend against? |
| 4 | How far did the most successful ransomware attack get when targeting your organisation's data? |
| 5 | Please estimate the number of employee hours dedicated to replacing encrypted data with back-up data. |
| 6 | Considering all the ransomware attacks your organisation has experienced in the last 12 months, has your organisation paid the ransom demanded by ransomware attackers? |
| 7 | What was the total value of the ransoms paid by your organisation? |
| 8 | What was the value of the largest ransom your organisation has paid? |
| 9 | What results have your organisation experienced from paying the ransom ? |
| 10 | What has been the impact of ransomware attacks on your organisation in the past 12 months? |
| 11 | What type of data has been affected by ransomware attackers in the past 12 months in your organisation? |
| 12 | Upon suffering a ransomware attack, which of the following did/would your IT security department do? |
| 13 | Has your organisation been able to identify the attacker in any of the ransomware attacks on your organisation, and if so who was the attacker? |
| 14 | What do you believe to be the main motive for cyber-attackers when using ransomware against your organisation? |
| 15 | Was your organisation able to locate the source of the breach (the location of the attacker/s)? |
| 16a | To what extent do you agree with the following statements? Country |
| 16b | To what extent do you agree with the following statements? Size |
| 16c | To what extent do you agree with the following statements? Sector |
| | <u>Demographics</u> |
| D1 | How many employees does your organisation have globally? |
| D2 | Within which sector is your organisation? |
| D3 | In which one of these functional areas are you primarily employed within your organisation? |
| D4 | What is your level of involvement in IT security within your organisation? |

Has your organization suffered a ransomware attack in the last 12 months?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|------------|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Yes | 48% | 39% | 50% | 52% | 51% | 45% | 52% | 49% |
| No | 49% | 55% | 48% | 46% | 49% | 53% | 47% | 47% |
| Don't know | 2% | 6% | 2% | 2% | 0% | 3% | 1% | 4% |

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|------------|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Yes | 48% | 51% | 57% | 45% | 52% | 49% | 24% | 42% | 47% | 56% |
| No | 49% | 47% | 43% | 49% | 46% | 48% | 76% | 56% | 53% | 40% |
| Don't know | 2% | 2% | 0% | 6% | 1% | 3% | 0% | 2% | 0% | 5% |

How did the ransomware attacker gain access to your organization's network?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|---|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Phishing via email or social media network | 81% | 72% | 83% | 69% | 94% | 80% | 79% | 83% |
| Drive-by-download caused by clicking on a compromised website | 50% | 38% | 59% | 35% | 57% | 48% | 56% | 45% |
| Infection via a computer that was part of a botnet | 40% | 18% | 47% | 46% | 37% | 39% | 41% | 40% |
| *Other (please specify) | 0% | 0% | 0% | 2% | 0% | 1% | 0% | 0% |
| Don't know | 1% | 3% | 0% | 2% | 0% | 1% | 0% | 1% |

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|---|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Phishing via email or social media network | 81% | 79% | 94% | 84% | 74% | 64% | 100% | 81% | 82% | 91% |
| Drive-by-download caused by clicking on a compromised website | 50% | 46% | 88% | 39% | 60% | 58% | 25% | 35% | 48% | 43% |
| Infection via a computer that was part of a botnet | 40% | 32% | 53% | 32% | 63% | 30% | 50% | 27% | 39% | 43% |
| *Other (please specify) | 0% | 0% | 0% | 3% | 0% | 0% | 0% | 0% | 0% | 0% |
| Don't know | 1% | 0% | 0% | 0% | 0% | 3% | 0% | 4% | 0% | 0% |

In the past 12 months, how many ransomware attacks has your organization had to defend against?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|---|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| 1-2 attacks | 19% | 36% | 15% | 29% | 2% | 22% | 18% | 15% |
| 3-4 attacks | 26% | 23% | 27% | 31% | 22% | 26% | 28% | 24% |
| 5-6 attacks | 22% | 8% | 19% | 23% | 37% | 12% | 23% | 32% |
| 7-8 attacks | 12% | 3% | 12% | 10% | 24% | 19% | 10% | 8% |
| 9-10 attacks | 12% | 21% | 15% | 4% | 6% | 14% | 13% | 7% |
| 11-15 attacks | 6% | 3% | 9% | 0% | 8% | 6% | 6% | 5% |
| 15-20 attacks | 2% | 0% | 3% | 4% | 2% | 0% | 1% | 7% |
| More than 20 attacks | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Don't know | 1% | 8% | 0% | 0% | 0% | 1% | 0% | 3% |
| Average number of ransomware attacks that respondents' organizations have had to defend against in the past 12 months | 6 | 5 | 6 | 5 | 7 | 5 | 6 | 6 |

In the past 12 months, how many ransomware attacks has your organization had to defend against?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|---|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| 1-2 attacks | 19% | 18% | 0% | 19% | 23% | 21% | 25% | 23% | 18% | 17% |
| 3-4 attacks | 26% | 29% | 12% | 42% | 20% | 33% | 50% | 27% | 15% | 23% |
| 5-6 attacks | 22% | 39% | 6% | 26% | 26% | 18% | 25% | 15% | 18% | 20% |
| 7-8 attacks | 12% | 0% | 12% | 10% | 14% | 3% | 0% | 23% | 15% | 23% |
| 9-10 attacks | 12% | 7% | 59% | 3% | 6% | 15% | 0% | 4% | 12% | 9% |
| 11-15 attacks | 6% | 0% | 12% | 0% | 6% | 6% | 0% | 4% | 12% | 9% |
| 15-20 attacks | 2% | 4% | 0% | 0% | 6% | 0% | 0% | 0% | 9% | 0% |
| More than 20 attacks | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Don't know | 1% | 4% | 0% | 0% | 0% | 3% | 0% | 4% | 0% | 0% |
| Average number of ransomware attacks that respondents' organizations have had to defend against in the past 12 months | 6 | 5 | 9 | 4 | 6 | 5 | 4 | 5 | 7 | 6 |

How far did the most successful ransomware attack get when targeting your organization's data?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|--|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| The attacker was <u>able</u> to encrypt some files/data, but we were able to decrypt them ourselves | 45% | 44% | 46% | 52% | 35% | 48% | 41% | 44% |
| The attacker was <u>unable</u> to successfully encrypt any files/data | 27% | 8% | 36% | 19% | 31% | 22% | 32% | 27% |
| The attacker was <u>able</u> to encrypt some files/data, but we had a back-up and were able to replace the encrypted files | 25% | 46% | 14% | 27% | 27% | 29% | 23% | 21% |
| The attacker was <u>able</u> to encrypt some files/data, which we were unable to decrypt | 3% | 0% | 4% | 2% | 6% | 0% | 4% | 7% |
| Don't know | 0% | 3% | 0% | 0% | 0% | 0% | 0% | 1% |

How far did the most successful ransomware attack get when targeting your organization's data?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|--|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| The attacker was <u>able</u> to encrypt some files/data, but we were able to decrypt them ourselves | 45% | 57% | 12% | 48% | 31% | 55% | 75% | 23% | 67% | 43% |
| The attacker was <u>unable</u> to successfully encrypt any files/data | 27% | 25% | 76% | 26% | 43% | 18% | 0% | 23% | 6% | 23% |
| The attacker was <u>able</u> to encrypt some files/data, but we had a back-up and were able to replace the encrypted files | 25% | 14% | 6% | 26% | 17% | 24% | 25% | 50% | 21% | 34% |
| The attacker was <u>able</u> to encrypt some files/data, which we were unable to decrypt | 3% | 0% | 6% | 0% | 9% | 3% | 0% | 4% | 6% | 0% |
| Don't know | 0% | 4% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Please estimate the number of employee hours dedicated to replacing encrypted data with back-up data.

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|--|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| *Less than 8 employee hours | 10% | 11% | 7% | 21% | 0% | 12% | 5% | 13% |
| 8-16 employee hours | 18% | 33% | 14% | 21% | 0% | 12% | 26% | 19% |
| 16-24 employee hours | 20% | 39% | 7% | 7% | 21% | 20% | 21% | 19% |
| 24-32 employee hours | 8% | 11% | 14% | 0% | 7% | 12% | 0% | 13% |
| 32-40 employee hours | 7% | 0% | 14% | 0% | 14% | 12% | 0% | 6% |
| 40-48 employee hours | 23% | 0% | 21% | 36% | 43% | 28% | 32% | 6% |
| 48-56 employee hours | 3% | 0% | 0% | 7% | 7% | 0% | 5% | 6% |
| 56-64 employee hours | 5% | 0% | 14% | 0% | 7% | 4% | 5% | 6% |
| 64-72 employee hours | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 72-80 employee hours | 5% | 6% | 7% | 7% | 0% | 0% | 5% | 13% |
| More than 80 employee hours | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Average number of employee hours dedicated to replacing encrypted data with back-up data | 33 | 22 | 38 | 37 | 38 | 32 | 33 | 35 |

Please estimate the number of employee hours dedicated to replacing encrypted data with back-up data.



| | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|--|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| *Less than 8 employee hours | 0% | 0% | 38% | 0% | 13% | 0% | 8% | 0% | 8% |
| 8-16 employee hours | 0% | 0% | 13% | 17% | 25% | 100% | 31% | 29% | 0% |
| 16-24 employee hours | 25% | 0% | 0% | 17% | 38% | 0% | 31% | 0% | 25% |
| 24-32 employee hours | 0% | 0% | 13% | 17% | 13% | 0% | 8% | 0% | 8% |
| 32-40 employee hours | 25% | 0% | 0% | 0% | 0% | 0% | 8% | 14% | 8% |
| 40-48 employee hours | 0% | 100% | 25% | 33% | 13% | 0% | 8% | 29% | 42% |
| 48-56 employee hours | 0% | 0% | 0% | 0% | 0% | 0% | 8% | 14% | 0% |
| 56-64 employee hours | 25% | 0% | 0% | 17% | 0% | 0% | 0% | 0% | 8% |
| 64-72 employee hours | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 72-80 employee hours | 25% | 0% | 13% | 0% | 0% | 0% | 0% | 14% | 0% |
| More than 80 employee hours | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Average number of employee hours dedicated to replacing encrypted data with back-up data | 48 | 44 | 41 | 35 | 22 | 12 | 24 | 39 | 37 |

What has been the impact of ransomware attacks on your organization in the past 12 months?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|--|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Increased spending on IT security | 67% | 54% | 70% | 63% | 76% | 62% | 63% | 77% |
| Change of IT security strategy, to focus on mitigation | 52% | 31% | 65% | 56% | 39% | 53% | 55% | 48% |
| Loss of confidence in existing cybersecurity solutions | 45% | 54% | 35% | 44% | 57% | 51% | 41% | 41% |
| Damage to company reputation | 37% | 33% | 41% | 23% | 47% | 35% | 43% | 33% |
| Senior IT staff (CIO, CISO) lost their jobs | 22% | 10% | 30% | 13% | 25% | 15% | 24% | 28% |
| Negative press/bad publicity | 22% | 13% | 20% | 33% | 22% | 15% | 28% | 23% |
| My organization invested in cyber insurance | 15% | 8% | 22% | 12% | 12% | 14% | 18% | 13% |
| *Other (please specify) | 1% | 3% | 0% | 4% | 0% | 1% | 1% | 1% |
| There was no impact on my organization because of ransomware attacks in the past 12 months | 6% | 15% | 5% | 8% | 0% | 6% | 5% | 8% |

What has been the impact of ransomware attacks on your organization in the past 12 months?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|--|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Increased spending on IT security | 67% | 68% | 59% | 65% | 74% | 64% | 75% | 50% | 73% | 77% |
| Change of IT security strategy, to focus on mitigation | 52% | 46% | 65% | 39% | 60% | 61% | 25% | 42% | 48% | 60% |
| Loss of confidence in existing cybersecurity solutions | 45% | 39% | 41% | 55% | 37% | 42% | 0% | 46% | 52% | 49% |
| Damage to company reputation | 37% | 39% | 76% | 35% | 43% | 18% | 75% | 42% | 36% | 23% |
| Senior IT staff (CIO, CISO) lost their jobs | 22% | 14% | 47% | 16% | 31% | 9% | 25% | 31% | 24% | 17% |
| Negative press/bad publicity | 22% | 18% | 18% | 23% | 34% | 24% | 25% | 15% | 18% | 20% |
| My organization invested in cyber insurance | 15% | 14% | 12% | 16% | 23% | 15% | 0% | 12% | 15% | 14% |
| *Other (please specify) | 1% | 0% | 0% | 0% | 3% | 0% | 0% | 4% | 0% | 3% |
| There was no impact on my organization because of ransomware attacks in the past 12 months | 6% | 4% | 6% | 10% | 0% | 6% | 0% | 12% | 12% | 3% |

What type of data has been affected by ransomware attackers in the past 12 months in your organization?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|----------------------------------|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Employee information | 42% | 26% | 46% | 31% | 57% | 49% | 40% | 35% |
| Financial data | 41% | 15% | 52% | 38% | 43% | 38% | 46% | 40% |
| Customer information | 40% | 31% | 37% | 42% | 51% | 45% | 39% | 36% |
| Product information | 34% | 23% | 35% | 35% | 41% | 36% | 39% | 27% |
| Payroll/HR | 28% | 21% | 25% | 33% | 35% | 28% | 26% | 31% |
| Research and design | 24% | 15% | 22% | 35% | 25% | 13% | 33% | 28% |
| Company IP | 19% | 10% | 18% | 21% | 25% | 15% | 20% | 23% |
| The attack appeared to be random | 12% | 31% | 7% | 13% | 4% | 13% | 11% | 11% |
| All data was targeted | 7% | 8% | 13% | 4% | 0% | 6% | 4% | 13% |
| Don't know | 0% | 3% | 0% | 0% | 0% | 1% | 0% | 0% |

What type of data has been affected by ransomware attackers in the past 12 months in your organization?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|----------------------------------|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Employee information | 42% | 39% | 88% | 35% | 49% | 15% | 25% | 31% | 52% | 46% |
| Financial data | 41% | 46% | 65% | 35% | 46% | 33% | 0% | 27% | 36% | 54% |
| Customer information | 40% | 43% | 24% | 35% | 37% | 30% | 25% | 46% | 48% | 51% |
| Product information | 34% | 18% | 41% | 23% | 43% | 45% | 0% | 31% | 42% | 34% |
| Payroll/HR | 28% | 39% | 47% | 26% | 31% | 21% | 25% | 19% | 30% | 20% |
| Research and design | 24% | 32% | 41% | 13% | 29% | 30% | 0% | 31% | 15% | 17% |
| Company IP | 19% | 14% | 12% | 16% | 17% | 21% | 25% | 23% | 27% | 17% |
| The attack appeared to be random | 12% | 7% | 6% | 10% | 3% | 18% | 25% | 27% | 9% | 11% |
| All data was targeted | 7% | 4% | 0% | 13% | 14% | 9% | 25% | 4% | 6% | 3% |
| Don't know | 0% | 4% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Upon suffering a ransomware attack, which of the following did/would your IT security department do?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|--|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Notify the CEO/board | 61% | 69% | 68% | 46% | 56% | 65% | 64% | 55% |
| Inform law enforcement | 54% | 50% | 57% | 49% | 59% | 54% | 54% | 55% |
| Notify our lawyers | 50% | 46% | 60% | 40% | 43% | 48% | 43% | 58% |
| Notifying data protection regulators | 48% | 35% | 49% | 52% | 53% | 46% | 51% | 46% |
| Attempt to decrypt the files ourselves | 42% | 36% | 45% | 45% | 38% | 45% | 38% | 41% |
| Notify customers | 38% | 27% | 39% | 39% | 47% | 43% | 39% | 31% |
| Demand answers from IT security vendor | 38% | 30% | 42% | 39% | 39% | 38% | 39% | 38% |
| Contact our cyber insurance provider | 23% | 13% | 32% | 20% | 17% | 25% | 20% | 22% |
| Change IT security vendor | 18% | 10% | 22% | 18% | 17% | 13% | 21% | 20% |
| *Other | 1% | 2% | 0% | 1% | 0% | 1% | 1% | 1% |
| None of the above | 3% | 5% | 3% | 3% | 0% | 4% | 1% | 3% |

Upon suffering a ransomware attack, which of the following did/would your IT security department do?

| | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|--|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Notify the CEO/board | 64% | 53% | 55% | 67% | 67% | 59% | 65% | 61% | 56% |
| Inform law enforcement | 51% | 53% | 57% | 58% | 52% | 53% | 58% | 54% | 49% |
| Notify our lawyers | 60% | 43% | 51% | 34% | 52% | 71% | 55% | 51% | 43% |
| Notifying data protection regulators | 49% | 60% | 46% | 55% | 40% | 47% | 50% | 46% | 41% |
| Attempt to decrypt the files ourselves | 51% | 47% | 42% | 43% | 36% | 41% | 31% | 46% | 41% |
| Notify customers | 35% | 30% | 26% | 39% | 45% | 29% | 39% | 39% | 52% |
| Demand answers from IT security vendor | 35% | 43% | 41% | 45% | 37% | 35% | 37% | 40% | 30% |
| Contact our cyber insurance provider | 24% | 27% | 23% | 24% | 28% | 35% | 23% | 19% | 14% |
| Change IT security vendor | 15% | 30% | 12% | 25% | 22% | 6% | 18% | 19% | 10% |
| *Other | 0% | 0% | 1% | 0% | 1% | 0% | 0% | 0% | 2% |
| None of the above | 0% | 7% | 3% | 3% | 3% | 0% | 3% | 3% | 2% |

Has your organization been able to identify the attacker in any of the ransomware attacks on your organization, and if so who was the attacker?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|---|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Opportunistic hackers (non-organised) | 48% | 41% | 46% | 50% | 53% | 49% | 45% | 48% |
| Organised cyber-criminals | 45% | 23% | 48% | 37% | 67% | 40% | 49% | 48% |
| Anti-capitalist protesters | 31% | 18% | 33% | 38% | 27% | 24% | 33% | 36% |
| Political hacktivists | 24% | 15% | 23% | 21% | 37% | 24% | 28% | 21% |
| Disgruntled employees/former employees | 24% | 15% | 23% | 27% | 29% | 12% | 34% | 27% |
| Rival organizations | 19% | 3% | 26% | 15% | 22% | 14% | 17% | 27% |
| Dissatisfied customers | 18% | 10% | 20% | 19% | 20% | 13% | 22% | 20% |
| State sponsored hackers | 6% | 0% | 11% | 2% | 4% | 2% | 10% | 5% |
| Other (please specify) | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| My organization has not been able to determine the identity of the attacker in any of the ransomware attacks we have suffered | 15% | 38% | 15% | 12% | 0% | 19% | 12% | 13% |

Has your organization been able to identify the attacker in any of the ransomware attacks on your organization, and if so who was the attacker?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|---|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Opportunistic hackers (non-organised) | 48% | 50% | 65% | 42% | 51% | 39% | 25% | 31% | 64% | 46% |
| Organised cyber-criminals | 45% | 36% | 82% | 32% | 57% | 33% | 0% | 35% | 48% | 57% |
| Anti-capitalist protesters | 31% | 36% | 47% | 42% | 26% | 27% | 25% | 23% | 30% | 23% |
| Political hacktivists | 24% | 21% | 35% | 26% | 37% | 21% | 25% | 15% | 30% | 11% |
| Disgruntled employees/former employees | 24% | 25% | 41% | 16% | 37% | 24% | 0% | 31% | 15% | 14% |
| Rival organizations | 19% | 18% | 12% | 16% | 37% | 24% | 0% | 15% | 18% | 9% |
| Dissatisfied customers | 18% | 11% | 29% | 16% | 31% | 15% | 0% | 12% | 21% | 14% |
| State sponsored hackers | 6% | 4% | 12% | 6% | 9% | 9% | 0% | 8% | 3% | 0% |
| Other (please specify) | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| My organization has not been able to determine the identity of the attacker in any of the ransomware attacks we have suffered | 15% | 7% | 6% | 13% | 6% | 21% | 25% | 27% | 15% | 20% |

What do you believe to be the main motive for cyber-attackers when using ransomware against your organization?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|---|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Financial gain | 54% | 64% | 60% | 44% | 43% | 54% | 54% | 53% |
| Simple disruption to a successful business | 47% | 33% | 53% | 38% | 53% | 44% | 54% | 43% |
| Cyber espionage | 42% | 21% | 39% | 56% | 51% | 38% | 46% | 43% |
| Political motivation | 30% | 8% | 27% | 33% | 49% | 28% | 27% | 35% |
| 'Revenge' for a bad experience with my organization | 27% | 8% | 27% | 37% | 33% | 21% | 33% | 28% |
| State sponsored international attack | 20% | 5% | 23% | 17% | 29% | 11% | 29% | 21% |
| Entertainment (hacking just for fun) | 16% | 13% | 21% | 12% | 14% | 12% | 17% | 20% |
| Other (please specify) | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| We have no insight into the motivation of the cyber-attackers targeting my organization | 5% | 13% | 6% | 4% | 0% | 11% | 1% | 4% |

What do you believe to be the main motive for cyber-attackers when using ransomware against your organization?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|---|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Opportunistic hackers (non-organised) | 48% | 50% | 65% | 42% | 51% | 39% | 25% | 31% | 64% | 46% |
| Organised cyber-criminals | 45% | 36% | 82% | 32% | 57% | 33% | 0% | 35% | 48% | 57% |
| Anti-capitalist protesters | 31% | 36% | 47% | 42% | 26% | 27% | 25% | 23% | 30% | 23% |
| Political hacktivists | 24% | 21% | 35% | 26% | 37% | 21% | 25% | 15% | 30% | 11% |
| Disgruntled employees/former employees | 24% | 25% | 41% | 16% | 37% | 24% | 0% | 31% | 15% | 14% |
| Rival organizations | 19% | 18% | 12% | 16% | 37% | 24% | 0% | 15% | 18% | 9% |
| Dissatisfied customers | 18% | 11% | 29% | 16% | 31% | 15% | 0% | 12% | 21% | 14% |
| State sponsored hackers | 6% | 4% | 12% | 6% | 9% | 9% | 0% | 8% | 3% | 0% |
| Other (please specify) | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| My organization has not been able to determine the identity of the attacker in any of the ransomware attacks we have suffered | 15% | 7% | 6% | 13% | 6% | 21% | 25% | 27% | 15% | 20% |

Was your organization able to locate the source of the breach (the location of the attacker/s)?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|---|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Eastern Europe | 47% | 54% | 35% | 48% | 61% | 52% | 44% | 43% |
| Within my own country | 45% | 21% | 66% | 33% | 31% | 45% | 49% | 40% |
| Western Europe | 34% | 21% | 25% | 30% | 59% | 35% | 32% | 35% |
| North America | 19% | 8% | 32% | 11% | 12% | 12% | 22% | 25% |
| Middle East | 19% | 8% | 8% | 33% | 29% | 13% | 19% | 25% |
| Far East | 17% | 29% | 9% | 20% | 20% | 12% | 19% | 18% |
| Africa | 13% | 13% | 5% | 22% | 18% | 7% | 14% | 17% |
| South America | 4% | 0% | 9% | 2% | 0% | 3% | 6% | 5% |
| My organization was unable to determine the source location of the breach | 4% | 8% | 2% | 7% | 2% | 3% | 3% | 6% |

Was your organization able to locate the source of the breach (the location of the attacker/s)?

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|---|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Eastern Europe | 47% | 31% | 75% | 37% | 39% | 50% | 33% | 47% | 50% | 57% |
| Within my own country | 45% | 35% | 75% | 33% | 64% | 42% | 33% | 37% | 43% | 36% |
| Western Europe | 34% | 46% | 50% | 30% | 18% | 27% | 0% | 32% | 43% | 39% |
| North America | 19% | 23% | 38% | 11% | 21% | 15% | 0% | 11% | 25% | 18% |
| Middle East | 19% | 23% | 13% | 22% | 3% | 38% | 33% | 21% | 25% | 7% |
| Far East | 17% | 12% | 13% | 26% | 12% | 19% | 0% | 32% | 18% | 7% |
| Africa | 13% | 19% | 6% | 15% | 12% | 12% | 33% | 5% | 14% | 11% |
| South America | 4% | 0% | 25% | 4% | 6% | 4% | 0% | 0% | 4% | 0% |
| My organization was unable to determine the source location of the breach | 4% | 0% | 0% | 4% | 3% | 4% | 0% | 16% | 4% | 4% |

To what extent do you agree with the following statements? - Country

Total

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 19% | 35% | 19% | 18% | 9% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 28% | 37% | 20% | 12% | 3% |
| My organization feels helpless to defend itself from new forms of ransomware | 13% | 23% | 25% | 27% | 12% |
| We need a new solution to protect organizations from ransomware | 30% | 41% | 20% | 7% | 2% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 19% | 30% | 22% | 18% | 10% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 14% | 38% | 32% | 11% | 5% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 15% | 29% | 24% | 23% | 9% |

United Kingdom

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 10% | 37% | 22% | 23% | 8% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 19% | 44% | 26% | 11% | 0% |
| My organization feels helpless to defend itself from new forms of ransomware | 5% | 19% | 31% | 36% | 9% |
| We need a new solution to protect organizations from ransomware | 25% | 38% | 25% | 12% | 0% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 10% | 33% | 30% | 18% | 9% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 8% | 35% | 35% | 16% | 6% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 7% | 25% | 27% | 34% | 7% |

To what extent do you agree with the following statements? - Country

United States

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 23% | 29% | 20% | 16% | 13% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 31% | 37% | 16% | 11% | 6% |
| My organization feels helpless to defend itself from new forms of ransomware | 15% | 23% | 19% | 28% | 16% |
| We need a new solution to protect organizations from ransomware | 35% | 42% | 13% | 7% | 4% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 24% | 26% | 20% | 19% | 13% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 23% | 37% | 29% | 6% | 6% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 15% | 32% | 22% | 20% | 12% |

France

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 21% | 40% | 15% | 17% | 7% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 25% | 38% | 18% | 17% | 2% |
| My organization feels helpless to defend itself from new forms of ransomware | 16% | 29% | 22% | 26% | 7% |
| We need a new solution to protect organizations from ransomware | 34% | 39% | 18% | 5% | 4% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 22% | 38% | 18% | 14% | 8% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 13% | 35% | 32% | 13% | 6% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 21% | 31% | 23% | 15% | 10% |

To what extent do you agree with the following statements? - Country

Germany

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 17% | 43% | 16% | 20% | 4% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 33% | 28% | 25% | 13% | 1% |
| My organization feels helpless to defend itself from new forms of ransomware | 13% | 21% | 34% | 19% | 13% |
| We need a new solution to protect organizations from ransomware | 21% | 43% | 29% | 6% | 1% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 18% | 26% | 25% | 23% | 8% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 17% | 48% | 30% | 4% | 0% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 19% | 24% | 24% | 28% | 5% |

To what extent do you agree with the following statements? – Size

Total

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 19% | 35% | 19% | 18% | 9% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 28% | 37% | 20% | 12% | 3% |
| My organization feels helpless to defend itself from new forms of ransomware | 13% | 23% | 25% | 27% | 12% |
| We need a new solution to protect organizations from ransomware | 30% | 41% | 20% | 7% | 2% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 19% | 30% | 22% | 18% | 10% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 14% | 38% | 32% | 11% | 5% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 15% | 29% | 24% | 23% | 9% |

1,001-3,000 Employees

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 18% | 38% | 21% | 16% | 6% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 29% | 38% | 18% | 14% | 2% |
| My organization feels helpless to defend itself from new forms of ransomware | 9% | 25% | 29% | 26% | 11% |
| We need a new solution to protect organizations from ransomware | 31% | 37% | 23% | 7% | 3% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 20% | 33% | 23% | 16% | 8% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 10% | 47% | 34% | 8% | 2% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 13% | 30% | 24% | 27% | 7% |

To what extent do you agree with the following statements? – Size

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree | |
|------------------------------|---|----------------|---------------------------|-------------------|---------------------|-----|
| 3,001-5,000 Employees | My organization has lost faith in traditional cyber security, such as anti-virus | 23% | 29% | 20% | 16% | 13% |
| | Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 31% | 37% | 16% | 11% | 6% |
| | My organization feels helpless to defend itself from new forms of ransomware | 15% | 23% | 19% | 28% | 16% |
| | We need a new solution to protect organizations from ransomware | 35% | 42% | 13% | 7% | 4% |
| | We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 24% | 26% | 20% | 19% | 13% |
| | We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 23% | 37% | 29% | 6% | 6% |
| | Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 15% | 32% | 22% | 20% | 12% |
| 5,000+ Employees | My organization has lost faith in traditional cyber security, such as anti-virus | 21% | 40% | 15% | 17% | 7% |
| | Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 25% | 38% | 18% | 17% | 2% |
| | My organization feels helpless to defend itself from new forms of ransomware | 16% | 29% | 22% | 26% | 7% |
| | We need a new solution to protect organizations from ransomware | 34% | 39% | 18% | 5% | 4% |
| | We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 22% | 38% | 18% | 14% | 8% |
| | We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 13% | 35% | 32% | 13% | 6% |
| | Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 21% | 31% | 23% | 15% | 10% |

To what extent do you agree with the following statements? – Sector

Total

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 19% | 35% | 19% | 18% | 9% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 28% | 37% | 20% | 12% | 3% |
| My organization feels helpless to defend itself from new forms of ransomware | 13% | 23% | 25% | 27% | 12% |
| We need a new solution to protect organizations from ransomware | 30% | 41% | 20% | 7% | 2% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 19% | 30% | 22% | 18% | 10% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 14% | 38% | 32% | 11% | 5% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 15% | 29% | 24% | 23% | 9% |

Business & Professional Services

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 7% | 47% | 20% | 20% | 5% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 16% | 45% | 24% | 13% | 2% |
| My organization feels helpless to defend itself from new forms of ransomware | 11% | 18% | 31% | 29% | 11% |
| We need a new solution to protect organizations from ransomware | 31% | 42% | 18% | 4% | 5% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 11% | 25% | 31% | 24% | 9% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 0% | 60% | 33% | 0% | 7% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 15% | 31% | 20% | 27% | 7% |

To what extent do you agree with the following statements? – Sector

Financial Services

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 20% | 28% | 25% | 17% | 10% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 25% | 38% | 22% | 13% | 3% |
| My organization feels helpless to defend itself from new forms of ransomware | 13% | 23% | 23% | 30% | 10% |
| We need a new solution to protect organizations from ransomware | 22% | 39% | 32% | 4% | 3% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 17% | 29% | 26% | 20% | 7% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 15% | 20% | 45% | 15% | 5% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 12% | 30% | 26% | 26% | 6% |

Construction & Property

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 33% | 33% | 3% | 27% | 3% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 30% | 23% | 30% | 13% | 3% |
| My organization feels helpless to defend itself from new forms of ransomware | 23% | 37% | 3% | 27% | 10% |
| We need a new solution to protect organizations from ransomware | 20% | 40% | 30% | 7% | 3% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 33% | 23% | 27% | 13% | 3% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 50% | 50% | 0% | 0% | 0% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 30% | 23% | 23% | 17% | 7% |

To what extent do you agree with the following statements? – Sector

IT, Tech & Telecom

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 30% | 33% | 18% | 9% | 10% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 31% | 36% | 13% | 16% | 3% |
| My organization feels helpless to defend itself from new forms of ransomware | 16% | 28% | 25% | 19% | 10% |
| We need a new solution to protect organizations from ransomware | 37% | 45% | 13% | 4% | 0% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 24% | 40% | 18% | 12% | 6% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 18% | 59% | 18% | 0% | 6% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 18% | 36% | 24% | 18% | 4% |

Manufacturing & Production

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 18% | 27% | 22% | 22% | 10% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 28% | 42% | 16% | 7% | 6% |
| My organization feels helpless to defend itself from new forms of ransomware | 7% | 27% | 21% | 31% | 13% |
| We need a new solution to protect organizations from ransomware | 34% | 37% | 18% | 7% | 3% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 27% | 30% | 15% | 15% | 13% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 20% | 20% | 45% | 5% | 10% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 13% | 19% | 31% | 22% | 13% |

To what extent do you agree with the following statements? – Sector

Media, Leisure & Entertainment

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 18% | 24% | 24% | 18% | 18% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 18% | 35% | 24% | 18% | 6% |
| My organization feels helpless to defend itself from new forms of ransomware | 6% | 18% | 12% | 47% | 18% |
| We need a new solution to protect organizations from ransomware | 18% | 29% | 29% | 18% | 6% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 12% | 35% | 18% | 29% | 6% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 20% | 40% | 20% | 20% | 0% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 18% | 29% | 12% | 18% | 24% |

Public Sector

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 16% | 35% | 13% | 27% | 8% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 35% | 31% | 21% | 13% | 0% |
| My organization feels helpless to defend itself from new forms of ransomware | 6% | 21% | 29% | 16% | 27% |
| We need a new solution to protect organizations from ransomware | 34% | 32% | 21% | 11% | 2% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 21% | 21% | 18% | 27% | 13% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 14% | 24% | 33% | 19% | 10% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 11% | 31% | 26% | 24% | 8% |

To what extent do you agree with the following statements? – Sector

Retail, Distribution & Transport

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 11% | 47% | 17% | 17% | 7% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 24% | 41% | 23% | 11% | 0% |
| My organization feels helpless to defend itself from new forms of ransomware | 16% | 11% | 27% | 40% | 6% |
| We need a new solution to protect organizations from ransomware | 31% | 49% | 14% | 6% | 0% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 14% | 30% | 21% | 20% | 14% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 12% | 44% | 28% | 16% | 0% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 13% | 29% | 17% | 30% | 11% |

Other Commercial Sectors

| | Completely agree | Somewhat agree | Neither agree or disagree | Somewhat disagree | Completely disagree |
|---|------------------|----------------|---------------------------|-------------------|---------------------|
| My organization has lost faith in traditional cyber security, such as anti-virus | 21% | 37% | 21% | 13% | 10% |
| Traditional cyber security techniques cannot protect us from the next generation of malware like ransomware attacks | 35% | 32% | 16% | 11% | 6% |
| My organization feels helpless to defend itself from new forms of ransomware | 14% | 27% | 33% | 17% | 8% |
| We need a new solution to protect organizations from ransomware | 29% | 43% | 13% | 13% | 3% |
| We've accepted that cybercriminals are constantly ahead and we are now focused on mitigation rather than cyber protection | 16% | 33% | 29% | 11% | 11% |
| We may look to get cyber insurance now that the possibility of fines is higher with the GDPR | 13% | 47% | 27% | 13% | 0% |
| Antivirus is dead – it will soon be useless in the fight against cyber-attacks | 19% | 29% | 24% | 19% | 10% |

How many employees does your organization have globally?

| | Total | UK | US | France | Germany |
|---------------------------|-------|-----|-----|--------|---------|
| 1,001-3,000 employees | 38% | 45% | 38% | 28% | 41% |
| 3,001-5,000 employees | 31% | 28% | 31% | 40% | 28% |
| More than 5,000 employees | 31% | 27% | 32% | 32% | 31% |

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|---------------------------|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| 1,001-3,000 employees | 38% | 40% | 53% | 29% | 42% | 42% | 24% | 39% | 33% | 40% |
| 3,001-5,000 employees | 31% | 36% | 43% | 32% | 33% | 27% | 29% | 24% | 33% | 30% |
| More than 5,000 employees | 31% | 24% | 3% | 39% | 25% | 31% | 47% | 37% | 34% | 30% |

Within which sector is your organization?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|------------------------------------|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| Retail, distribution and transport | 14% | 14% | 12% | 18% | 14% | 14% | 12% | 15% |
| Financial services | 14% | 14% | 13% | 17% | 13% | 14% | 11% | 14% |
| IT, technology and telecoms | 13% | 10% | 14% | 20% | 10% | 13% | 15% | 14% |
| Manufacturing and production | 13% | 15% | 12% | 13% | 15% | 13% | 15% | 11% |
| Public sector | 12% | 10% | 12% | 13% | 15% | 12% | 13% | 10% |
| Business and professional services | 11% | 19% | 9% | 5% | 14% | 11% | 12% | 13% |
| Construction and property | 6% | 5% | 11% | 0% | 3% | 6% | 8% | 8% |
| Media, leisure and entertainment | 3% | 6% | 4% | 4% | 0% | 3% | 2% | 3% |
| *Other commercial sectors | 13% | 7% | 15% | 10% | 16% | 13% | 13% | 12% |

In which one of these functional areas are you primarily employed within your organization?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|----------------------------------|-------|------|-----|--------|---------|-----------------|-----------------|---------------|
| Information technology | 99% | 100% | 99% | 98% | 100% | 99% | 100% | 99% |
| Risk/fraud/compliance/governance | 1% | 0% | 1% | 2% | 0% | 1% | 0% | 1% |

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|----------------------------------|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| Information technology | 99% | 98% | 100% | 99% | 100% | 100% | 100% | 98% | 100% | 98% |
| Risk/fraud/compliance/governance | 1% | 2% | 0% | 1% | 0% | 0% | 0% | 2% | 0% | 2% |

What is your level of involvement in IT security within your organization?

| | Total | UK | US | France | Germany | 1k-3k employees | 3k-5k employees | 5k+ employees |
|--|-------|-----|-----|--------|---------|-----------------|-----------------|---------------|
| I work exclusively in IT security | 41% | 20% | 42% | 47% | 57% | 38% | 46% | 41% |
| The majority of my work involves IT security | 33% | 25% | 39% | 30% | 33% | 36% | 32% | 29% |
| Some of my work involves IT security but I have other responsibilities | 26% | 55% | 20% | 23% | 10% | 25% | 22% | 30% |

| | Total | Business and professional services | Construction and property | Financial services | IT, technology and telecoms | Manufacturing and production | Media, leisure and entertainment | Public sector | Retail, distribution and transport | Other commercial sectors |
|--|-------|------------------------------------|---------------------------|--------------------|-----------------------------|------------------------------|----------------------------------|---------------|------------------------------------|--------------------------|
| I work exclusively in IT security | 41% | 44% | 70% | 32% | 48% | 39% | 29% | 32% | 41% | 44% |
| The majority of my work involves IT security | 33% | 31% | 23% | 43% | 40% | 30% | 18% | 24% | 31% | 38% |
| Some of my work involves IT security but I have other responsibilities | 26% | 25% | 7% | 25% | 12% | 31% | 53% | 44% | 27% | 17% |

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