

Active Directory Forest Recovery and IT Organization Readiness

a Petri.com Audience Survey





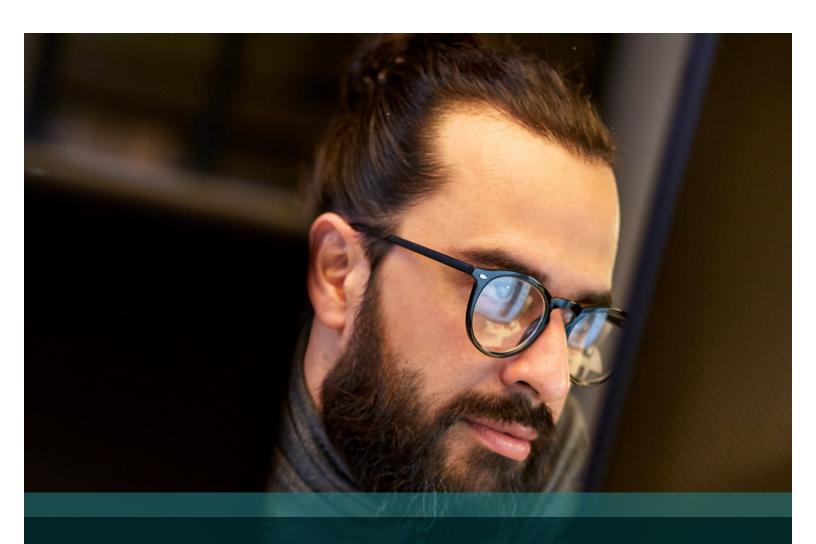


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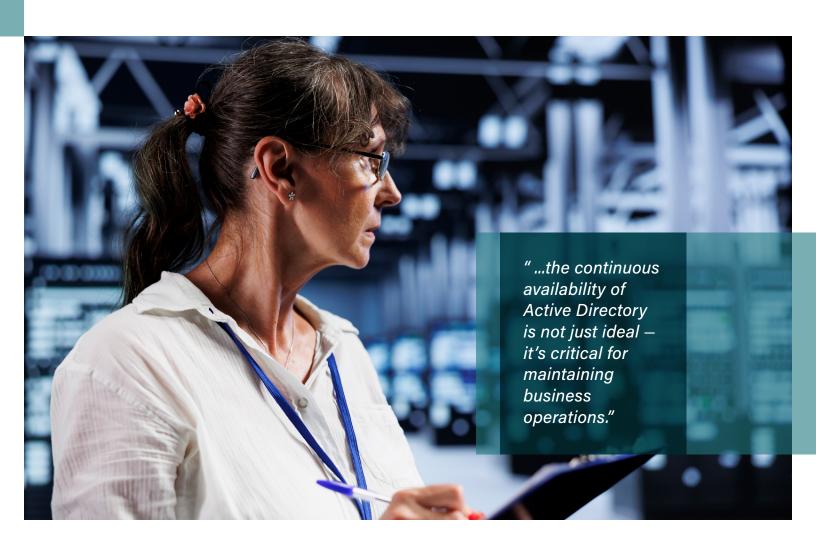


PETRI.COM RESEARCH LAB PRESENTS:

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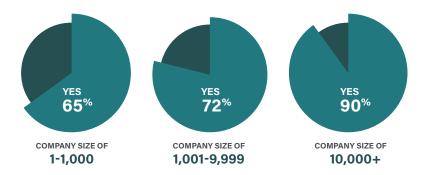
Active Directory (AD) remains a linchpin in IT security and access control, despite its decades-long tenure. As enterprises juggle a complex array of applications, remote work demands, and escalating cyberattacks, the continuous availability of AD is not just ideal—it's critical for maintaining business operations.



Have you experienced a forest-wide Active Directory (AD) outage?

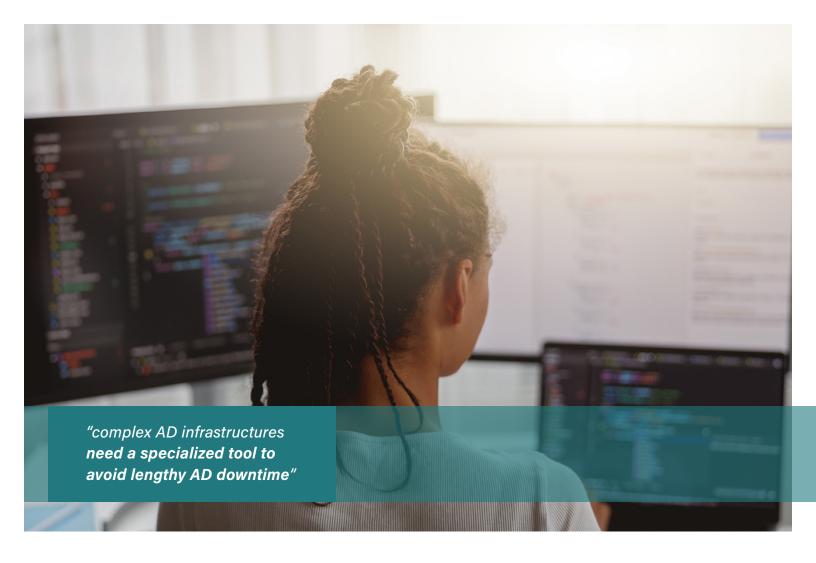
72% of mid-sized organizations have experienced a forest-wide AD outage, and the risk climbs to over 90% for large organizations.

While AD is designed for scalability, the larger the organization, the greater the complexity of their AD infrastructure and the greater the challenge to ensure your critical infrastructure, systems, and data are secure and operational.



"90% of enterprise-sized organizations have experienced a forest-wide Active Directory outage"



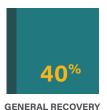


What did you use to expedite the recovery process?

For organizations that needed to perform an AD recovery, the responses showed that 40% of all organizations surveyed relied on general recovery tools versus an AD-specific disaster recovery solution. Specific AD recovery tools can help organizations recover from an outage much faster than a generic or general backup products.

Organizations are often fooled, or being penny-foolish, that a one-size-fits-all general backup solution can also recover AD quickly. They do not make the investment in tools that ensure their ability to achieve short recovery time objectives (RTO) for their business.

While recovering an AD forest, environments that only operate one or two domain controllers (DC), using a general backup solution might enable an acceptable RTO. Complex AD infrastructures need a specialized tool to avoid many hours, days, or weeks of downtime.









How long did the recovery process take?

An alarming number of companies are caught off-guard by AD outages, with significant downtime impacting even large organizations due to the complexities of restoring their AD infrastructure.

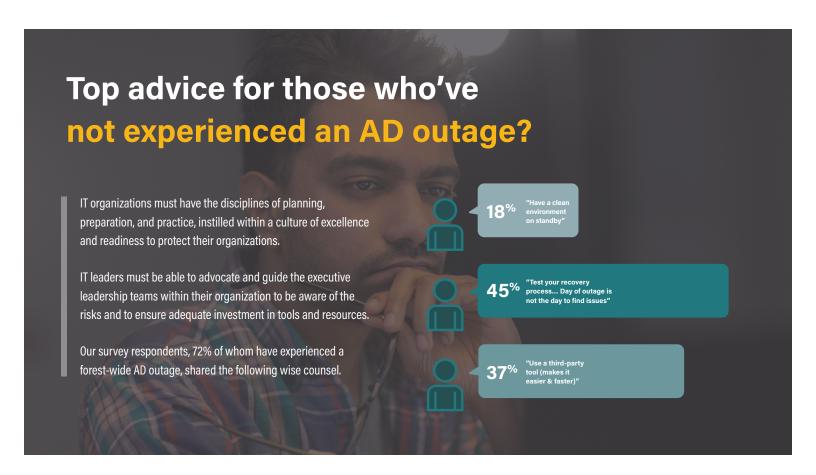
Given that 40% of large organizations, those with over 10,000 employees, needed "More than Days" to recover from a forest-wide AD outage, it's evident that the complexity of the restoration process is often underestimated. The significant financial implications of extended downtime warrant serious concern from every Board of Directors' audit committee.

This underscores an urgent need for organizations to prioritize their AD disaster recovery planning, ensuring rapid restoration to mitigate business interruptions.



^{*} Companies with greater than 10,000 employees

"Active Directory downtime: A glaring blind spot in Enterprise Risk Management"



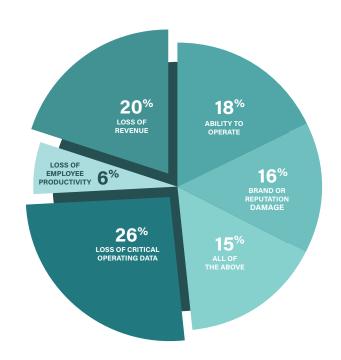


Which scenario is of most

concern during an AD outage?

Loss of critical operating data (26%) was the biggest concern, and maybe not surprisingly even more important than loss of revenue (20%). Loss of revenue is a temporary effect of AD downtime, but loss of critical data can put your organization's intellectual property at risk and out of business forever.

Powerfully, 16% of respondents understood the risk to the company's brand reputation. Years to build and seconds to break — brand reputation grows by spoonful but spills by bucket.



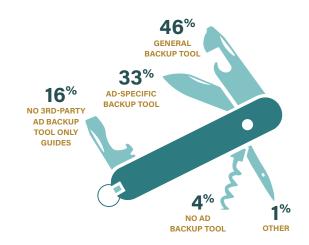
"Years to build and seconds to break — brand reputation grows by spoonful but spills by bucket"

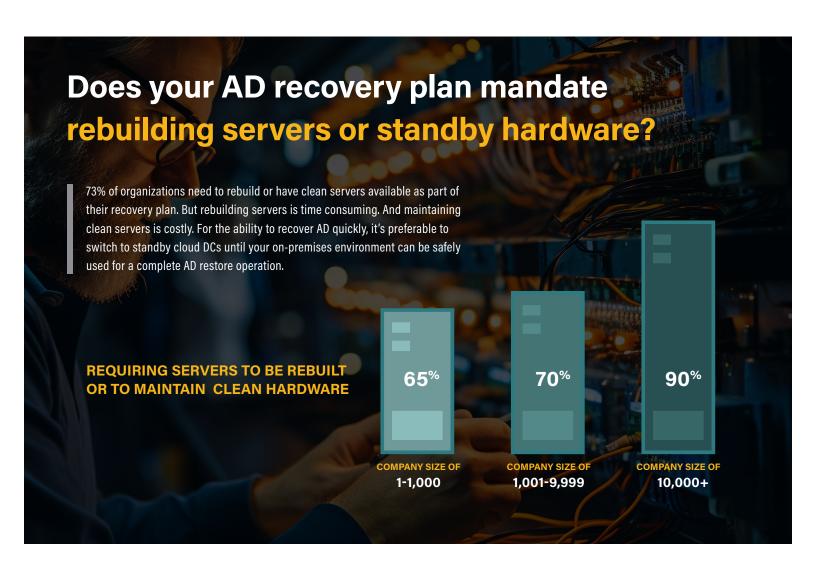
Pick the scenario that best represents your current AD backup/recovery situation.

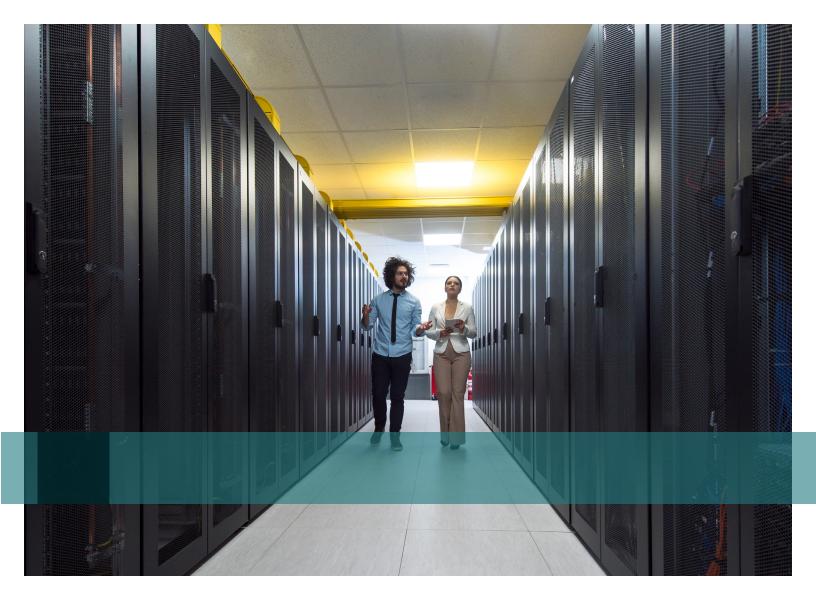
Only 1/3rd of organizations have a specialized AD backup and recovery tool.

Nearly 5 in 10 companies rely on a general backup tool, increasing their risk of a costly and lengthy business outage.

Even more frighteningly, 4% of all companies reported they had no AD backup tool in place, and 16% reported having no AD backup and recovery tool and relied on guides and scripts.

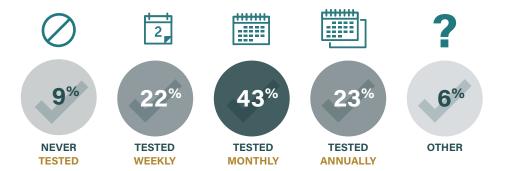






How often do you test the recovery of your AD?

Nearly 1/3rd of organizations only test AD restores annually, or worse, never. Those testing weekly or monthly either have less complex environments to restore or are most likely automating restore operations, enabling them to test restore operations more frequently and achieve shorter RTOs.





Conclusion

a Petri.com Audience Survey

Active Directory has been around for more than 20 years and it is considered a mature technology. But it hasn't seen any significant updates since 2016 as Microsoft has instead focused on its cloud Identity and Access Management (IAM) solution, Microsoft Entra ID (previously Azure AD). But despite the stagnation, Active Directory is still the most common on-premises IAM solution used today.

Despite Active Directory's longevity, it's hard to find expertise. And it is often poorly understood, leading to inadequate preparations in the event of a disaster recovery scenario. And the results of our survey show that at least half of all organizations, regardless of size, are either inadequately prepared for an AD outage or if somewhat prepared, would be unable to meet a short RTO. And as many AD attacks have shown, the potential for outages to lead to considerable losses is real.

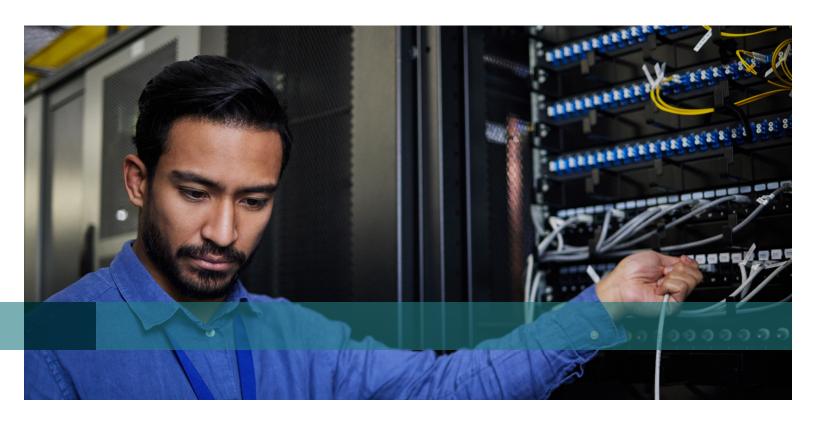
Methodology

a Petri.com Audience Survey

Petri.com is often approached by industry leaders to survey our audience on topics that are important for IT organizations. We then ask our audience to respond to a survey of ten, clear, concise, and relevant questions. Our highly engaged audience of IT practitioners and leaders is the perfect audience to gage market trends. This topic struck an enthusiastic chord, and we received nearly 1,000 responses from IT professionals and managers from a wide variety of industries and company sizes.

Survey results are analyzed to draw meaningful insights and the findings are then presented with the raw numbers and visualizations that help guide and sharpen strategies for leading IT solution providers, IT Pros, and IT organizations to understand their business implications. We also include editorial commentary to assist putting the results into context and how they fit into the current marketplace.

In this survey on Active Directory recovery, Cayosoft commissioned us to survey our IT Pro audience but otherwise remained hands off. The survey was designed with a set of quantitative and qualitative questions intended to get respondents thinking about their organization's own preparedness for a forest-wide Active Directory outage. The survey also provide Petri.com's editorial team and contributing experts with the market's current state of Active Directory disaster recovery readiness.



APPENDIX: RESULTS 1-2



1. Have you experienced a forest-wide Active Directory (AD) outage?

Response	1-1000	1001-9999	10,000+	Total
No	56	11	6	140
Unsure	1	2	2	8
Yes	108	48	74	387
Grand Total	165	61	82	535
No	34%	18%	7%	26%
Unsure	1%	3%	2%	1%
Yes	65%	79%	90%	72%
Grand Total	100%	100%	100%	100%

2. What caused the outage?

Response	1-1000	1001-9999	10,000+	Total
Cyberattack	19	15	34	69
Faulty hardware/environment	58	16	24	98
Human error	23	8	16	47
Licensing issues	5	7	2	14
Grand Total	105	46	76	228
Cyberattack	18%	33%	45%	30%
Faulty hardware/environment	55%	35%	32%	43%
Human error	22%	17%	21%	21%
Licensing issues	5%	15%	3%	6%
Grand Total	100%	100%	100%	100%

APPENDIX: RESULTS 3-4



3. What did you use to expedite the recovery process?

Response	1-1000	1001-9999	10,000+	Total
3rd party consultants	9	6	3	18
AD specific tool (Quest, Semperis, Cayosoft)	30	21	27	79
General recovery (CommVault, Veeam, Rubrik)	48	13	32	93
Microsoft guidance/recovery guide	21	9	14	44
Grand Total	108	49	76	234
3rd party consultants	8%	12%	4%	8%
AD specific tool (Quest, Semperis, Cayosoft)	28%	43%	36%	34%
General recovery (CommVault, Veeam, Rubrik)	44%	27%	42%	40%
Microsoft guidance/recovery guide	19%	18%	18%	19%
Grand Total	100%	100%	100%	100%

4. How long did the recovery process take?

Response	1-1000	1001-9999	10,000+	Total
Matter of Days	31	10	21	63
Matter of Hours	45	22	41	108
Matter of Minutes	19	7	5	31
Matter of Weeks	12	5	7	24
More than a month	2	3	2	7
Grand Total	109	47	76	233
Matter of Days	21%	21%	28%	27%
Matter of Hours	41%	47%	54%	46%
Matter of Minutes	17%	15%	7%	13%
Matter of Weeks	11%	11%	9%	10%
More than a month	2%	6%	3%	3%
Grand Total	100%	100%	100%	100%

APPENDIX: RESULTS 5-6



5. Top advice for those who've not experienced an AD outage?

Response	1-1000	1001-9999	10,000+	Total
Have a clean environment on stand-by and ready-to-go!	21	15	4	41
Test your recovery process, day of is not the time to find issues	52	20	34	106
Use a 3rd party tool (just makes it easier and faster)	36	14	37	87
Grand Total	109	49	75	234
Have a clean environment on stand-by and ready-to-go!	19%	31%	5%	18%
Test your recovery process, day of is not the time to find issues	48%	41%	45%	45%
Use a 3rd party tool (just makes it easier and faster)	33%	29%	49%	37%
Grand Total	100%	100%	100%	100%

6. How much total salary/employee expense* would be lost a day at your organization when employees cannot work?

Response	1-1,000	1,001-9,999	10,000+	Total
Between \$101K - \$500K/day	52	34	39	126
Between \$501K - \$1M/day	30	7	9	46
Less than \$100K/day	77	16	30	123
More than \$1M/day	6	4	4	14
[blank]	0	0	0	0
Grand Total	165	61	82	309
Between \$101K - \$500K/day	32%	56%	48%	41%
Between \$501K - \$1M/day	18%	11%	11%	15%
Less than \$100K/day	47%	26%	37%	40%
More than \$1M/day	4%	7%	5%	5%
[blank]	0%	0%	0%	0%
Grand Total	100%	100%	100%	100%

^{*} How it was calculated (#employees \times avg salary \div 260 workdays) per or in a day

APPENDIX: RESULTS 7



7. In the event of an Active Directory outage, which of the following scenarios are you most concerned about?

Response	1-1,000	1,001-9,999	10,000+	Total
Ability to operate	36	8	12	56
All of the above	32	6	7	45
Brand or reputational damage	19	16	14	49
Loss of critical operating data	44	16	18	79
Loss of employee productivity	12	2	4	18
Loss of revenue	22	13	27	62
Grand Total	165	61	82	309
•••••				• • • • • • • • • • • • • • • • • • • •
Ability to operate	22%	13%	15%	18%
All of the above	19%	10%	9%	15%
Brand or reputational damage	12%	26%	17%	16%
Loss of critical operating data	27%	26%	22%	26%
Loss of employee productivity	7%	3%	5%	6%
Loss of revenue	13%	21%	33%	20%
Grand Total	100%	100%	100%	100%

APPENDIX: RESULTS 8



8. Pick the scenario that best represents your current AD backup/recovery situation

Response	1-1,000	1,001-9,999	10,000+	Total
Other (please specify)	2	1	0	3
We do not have an AD backup tool in place	7	3	1	11
We have a general backup tool like	84	16	42	142
CommVault, Veeam, Rubrik for AD recovery				
We have an AD specific backup tool like	46	24	30	101
Quest, Semperis, Cayosoft				
We have no 3rd party AD backup tool	24	17	9	50
but have guides and scripts to help				
We have several domain controllers in	1	0	0	1
place in case one should fail				
Windows backup	1	0	0	1
Grand Total	165	61	82	309
Other (please specify)	1%	2%	0%	1%
We do not have an AD backup tool in place	4%	5%	1%	4%
We have a general backup tool like	51%	26%	51%	46%
CommVault, Veeam, Rubrik for AD recovery				
We have an AD specific backup tool like	28%	39%	37%	33%
Quest, Semperis, Cayosoft				
We have no 3rd party AD backup tool	15%	28%	11%	16%
but have guides and scripts to help				
We have several domain controllers in	1%	0%	0%	0%
place in case one should fail				
Windows backup	1%	0%	0%	0%
Grand Total	100%	100%	100%	100%

APPENDIX: RESULTS 9-10



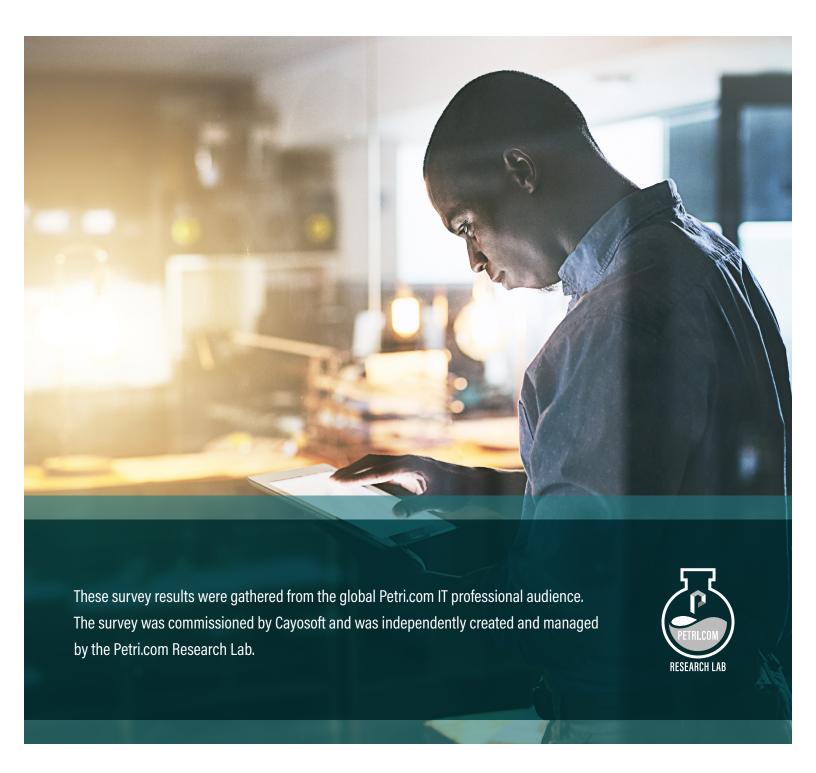
9. Does your AD recovery plan require you to re-build servers/have clean servers available to recover to?

Response	1-1,000	1,001-9,999	10,000+	Total
I don't know	10	6	2	18
No	47	12	6	65
Yes	108	43	74	226
Grand Total	165	61	82	309
				••••••
I don't know	6%	10%	2%	6%
No	28%	20%	7%	21%
Yes	65%	70%	90%	73%
Grand Total	100%	100%	100%	100%

10. How often do you test the recovery of your AD?

Response	1-1,000	1,001-9,999	10,000+	Total
Annually	45	10	17	72
Monthly	65	23	44	132
Never	20	7	1	28
0ther	7	3	0	10
Weekly	28	18	20	67
Grand Total	165	61	82	309
Annually	27%	16%	21%	23%
Monthly	39%	38%	54%	43%
Never	12%	11%	1%	9%
Other	4%	5%	0%	3%
Weekly	17%	30%	24%	22%
Grand Total	100%	100%	100%	100%





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