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Troubleshooting the Network by ONRC@Stanford

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Response Summary

Total Started Survey: 64
Total Completed Survey: 64 (100%)

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1. Please rate these symptoms that have appeared in your network in the last year. 5=most often, 1=least often [Download](#)

	5	4	3	2	1	Response Count
reachability problem	47.5% (29)	11.5% (7)	18.0% (11)	13.1% (8)	9.8% (6)	61
spanning tree issues	5.1% (3)	1.7% (1)	18.6% (11)	27.1% (16)	47.5% (28)	59
security policy violation	5.0% (3)	11.7% (7)	23.3% (14)	26.7% (16)	33.3% (20)	60
router CPU high utilization	7.9% (5)	22.2% (14)	33.3% (21)	20.6% (13)	15.9% (10)	63
congestion	13.3% (8)	15.0% (9)	21.7% (13)	23.3% (14)	26.7% (16)	60
forwarding loop	6.8% (4)	5.1% (3)	5.1% (3)	39.0% (23)	44.1% (26)	59
performance (throughput/latency)	29.0% (18)	25.8% (16)	21.0% (13)	9.7% (6)	14.5% (9)	62
intermittent problem	23.0% (14)	27.9% (17)	19.7% (12)	18.0% (11)	11.5% (7)	61
broadcast/multicast storm	7.3% (4)	3.6% (2)	9.1% (5)	27.3% (15)	52.7% (29)	55

Other (please specify)
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8

answered question

63

skipped question

1

2. Please rank these causes you have found for the problems you identified. 5=most often, 1=least often [Download](#)

5

4

3

2

1

Response Count

protocol misconfiguration	6.9% (4)	19.0% (11)	13.8% (8)	22.4% (13)	37.9% (22)	58
ACL misconfiguration	13.8% (8)	8.6% (5)	20.7% (12)	29.3% (17)	27.6% (16)	58
QoS/TE misconfiguration	1.8% (1)	5.3% (3)	14.0% (8)	22.8% (13)	56.1% (32)	57
hardware failure	18.6% (11)	22.0% (13)	27.1% (16)	11.9% (7)	20.3% (12)	59
switch/router software bug	21.7% (13)	18.3% (11)	26.7% (16)	16.7% (10)	16.7% (10)	60
host network stack bug	1.9% (1)	15.1% (8)	13.2% (7)	20.8% (11)	49.1% (26)	53
attack	16.7% (10)	11.7% (7)	16.7% (10)	25.0% (15)	30.0% (18)	60
software upgrade	7.0% (4)	12.3% (7)	21.1% (12)	31.6% (18)	28.1% (16)	57
external	24.2% (15)	17.7% (11)	21.0% (13)	11.3% (7)	25.8% (16)	62
unknown	5.6% (3)	11.1% (6)	24.1% (13)	24.1% (13)	35.2% (19)	54
Other (please specify)						5
Show Responses						

answered question **62**

skipped question **2**

3. How might we able to help you with your network problems?

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	Response Percent	Response Count
Would you like us to help you run the tool in your network	13.5%	7
Would you like to share the configuration of your network under NDA so that we can run in our lab?	13.5%	7
Would you like to run the tool in your network by yourself?	98.1%	51
Please leave your email address if you would like to hear more from us.		23
Show Responses		

answered question **52**

skipped question **12**

4. What is your role with respect to your organization's IP network?

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	Response Percent	Response Count
Network Administrator	92.6%	50

IT Administrator	24.1%	13
Field Engineer	3.7%	2
Sales Engineer	7.4%	4
	Other (please specify) Show Responses	11
	answered question	54
	skipped question	10

5. How many network-related IT tickets are generated every month in your network?

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	Response Percent	Response Count
<10	20.6%	13
10-50	33.3%	21
50-100	9.5%	6
>100	36.5%	23
	Other (please specify) Show Responses	1
	answered question	63
	skipped question	1

6. What tool are you using for troubleshooting? 5=most often, 1=least often

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	5	4	3	2	1	Response Count
ping	69.8% (44)	17.5% (11)	9.5% (6)	1.6% (1)	1.6% (1)	63
tracert	46.0% (29)	33.3% (21)	15.9% (10)	3.2% (2)	1.6% (1)	63
netperf/ipperf	9.1% (5)	7.3% (4)	18.2% (10)	34.5% (19)	30.9% (17)	55
SNMP	41.9% (26)	22.6% (14)	17.7% (11)	9.7% (6)	8.1% (5)	62
configuration version control	22.0% (13)	15.3% (9)	20.3% (12)	20.3% (12)	22.0% (13)	59
sFlow/NetFlow	10.9% (6)	14.5% (8)	21.8% (12)	20.0% (11)	32.7% (18)	55
					Other (please specify) Show Responses	14
					answered question	63

7. What is the expected time to fix a problem by one engineer?

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	Response Percent	Response Count
<5 min	5.0%	3
5-30 min	40.0%	24
30min - 1 hour	30.0%	18
1 - 5 hour	23.3%	14
> 5 hour	1.7%	1
answered question		60
skipped question		4

8. How large is your network?

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	Response Percent	Response Count
Small: <1k hosts	23.4%	15
Medium: 1k-10k hosts	37.5%	24
Large: 10k-100k hosts	18.8%	12
Very Large: > 100k hosts	20.3%	13
answered question		64
skipped question		0

9. What would your ideal solution tool to network debugging do for you?
(Whether its difficult or impossible does not matter: just fantasize)

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	Response Percent	Response Count
Automatic test generation of test packets to check for performance and correctness problems	68.9%	42
A versioning tool by which you can return the network to any past configuration version and test	44.3%	27
Being able to follow the state of a packet and the configuration it sees (like Single Stepping in gdb)	65.6%	40
While debugging, being able to 'watch' the network for specific events of interest. Example: IP packet arrival on a particular switch from a particular host.	80.3%	49
a way to breakdown traffic consumption on	50.0%	30

every link by host, user, application	59.0%	36
A monitor that alerts an admin when a previously encountered bug was triggered	49.2%	30
Other (please specify) Show Responses		8
answered question		61
skipped question		3

10. Open question: Please briefly describe your most difficult/interesting troubleshooting experience. Do you have other suggestions that we can help you troubleshoot your network?

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	Response Count
Show Responses	19
answered question	19
skipped question	45

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