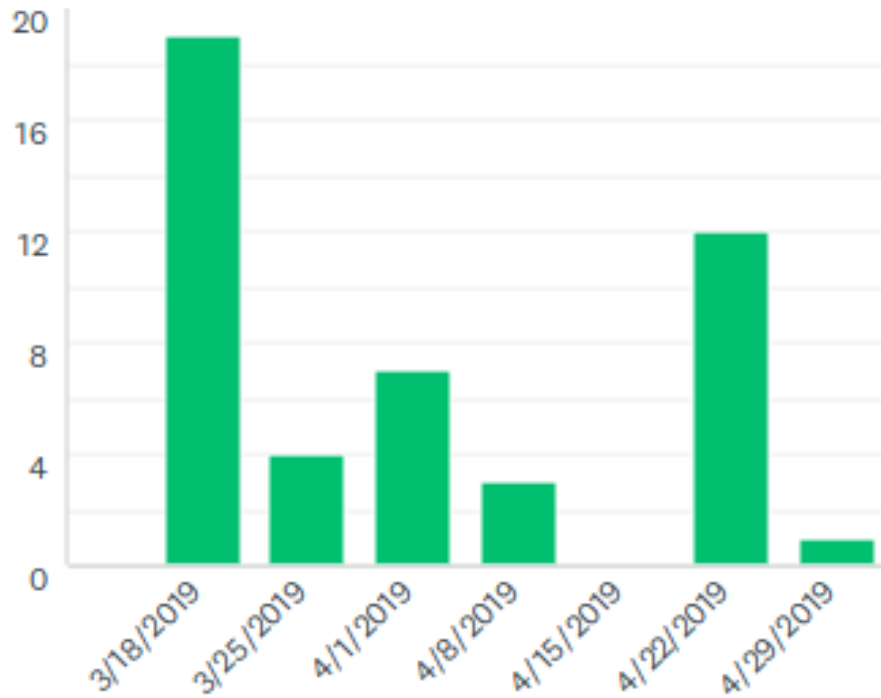


# DNS-OARC Software Survey 2019 Report

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## Survey Responses



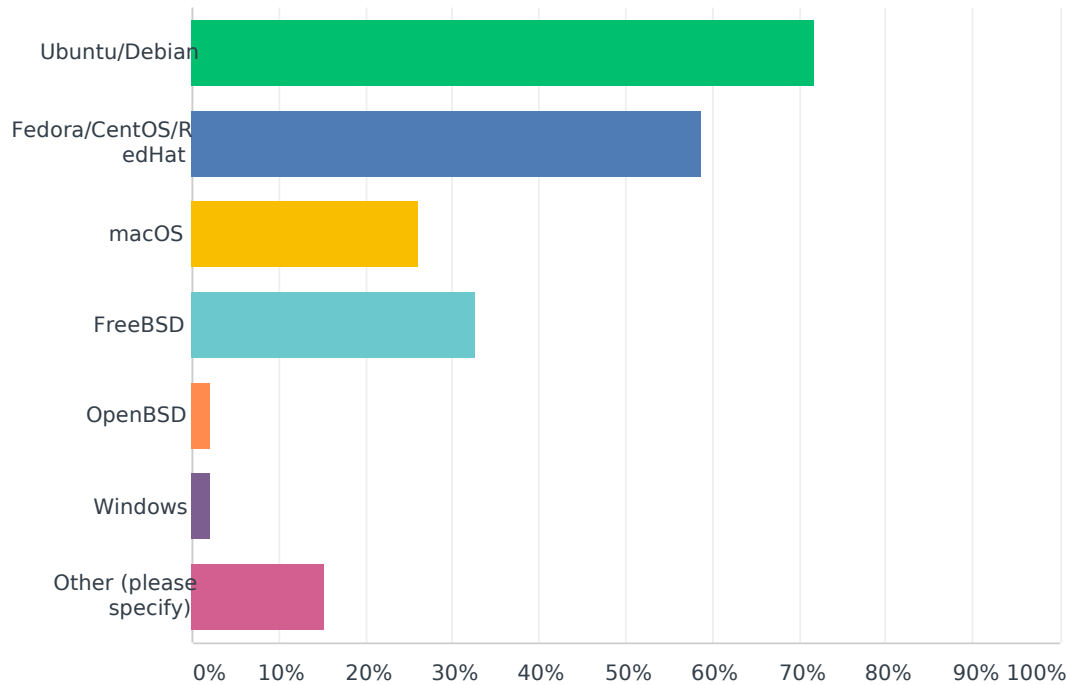
I am very pleased about the high number of responses!

I wanted this survey to be as easy as possible to answer and therefore all questions were optional, but even with that most of the respondents entered which member they represent and I thank you for that because it helps us understand the member coverage.

We got 46 responses from 33 unique members!

## Q1 Which platform(s) do you run DNS software on?

Answered: 46 Skipped: 0



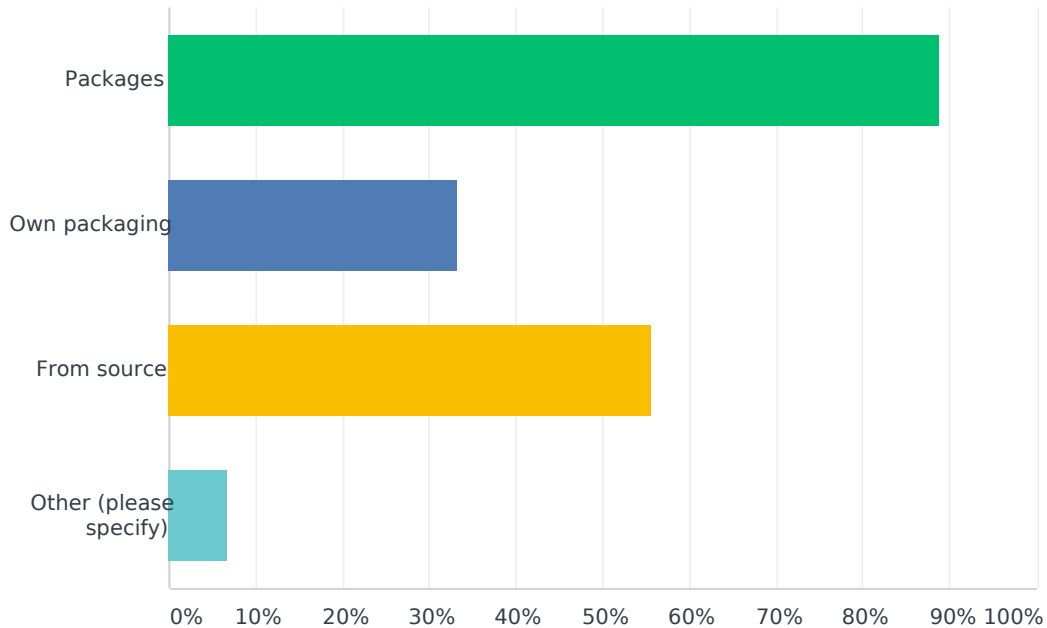
ANSWER CHOICES	RESPONSES	
Ubuntu/Debian	71.74%	33
Fedora/CentOS/RedHat	58.70%	27
macOS	26.09%	12
FreeBSD	32.61%	15
OpenBSD	2.17%	1
Windows	2.17%	1
Other (please specify)	15.22%	7
Total Respondents: 46		

I was not surprised about the fact that >60% of our members run Linux, that is the most common platform for servers today. What did surprised me was the high number of FreeBSD platforms and the fact that Arch Linux is making ground (majority of platforms specified in Other).

OpenBSD will likely be phased out from the build platforms based on these results. I do understand peoples point on that it is good to build on OpenBSD but it is also the one platform costing the most time to fixing build issues for, issues that just don't exist for other platforms. Of course this does not mean that we won't try to be compliant or fix issues. If you think this is wrong, please reach out to me!

## Q2 How do you install software on these platform(s)?

Answered: 45 Skipped: 1



ANSWER CHOICES	RESPONSES	
Packages	88.89%	40
Own packaging	33.33%	15
From source	55.56%	25
Other (please specify)	6.67%	3
Total Respondents: 45		

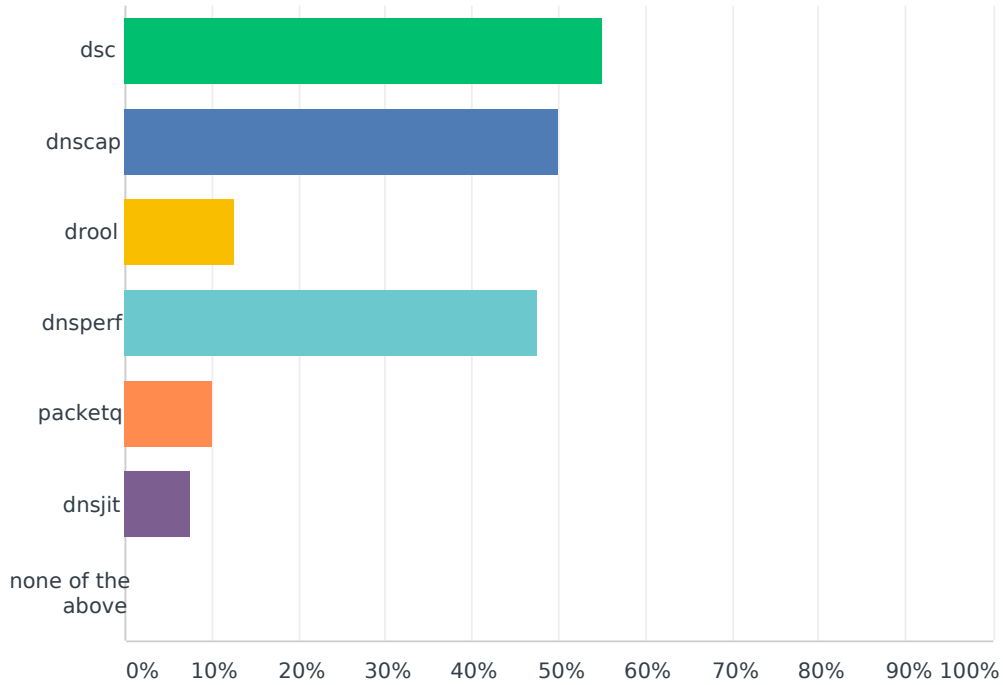
It was no surprise that packages are the main installation method, this is why we use the official packaging build services such as LaunchPad, COPR and openSUSE Build Service.

Recently there's been a few packaging issues, mostly my mistakes of not pushing new packages to repositories but also some dependency problems.

My next goal for packages will be to trigger the building of them from buildbot so that the develop branch of our software is always available in our pre-release repositories. This will also make releases easier to do and less time consuming.

### Q3 Do you use?

Answered: 40 Skipped: 6

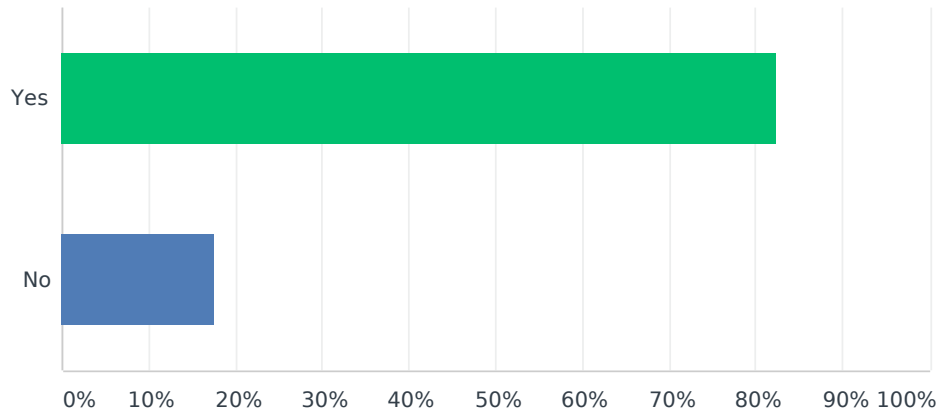


ANSWER CHOICES	RESPONSES	
dsc	55.00%	22
dnscap	50.00%	20
drool	12.50%	5
dnsp perf	47.50%	19
packetq	10.00%	4
dnsjit	7.50%	3
none of the above	0.00%	0
Total Respondents: 40		

Not a lot to say here really. dsc, dnscap and dnsp perf are the main tools we have and it's nice to see that there are a few that use drool and dnsjit.

## Q4 Would dnstap support in any/all software be useful for you?

Answered: 40 Skipped: 6



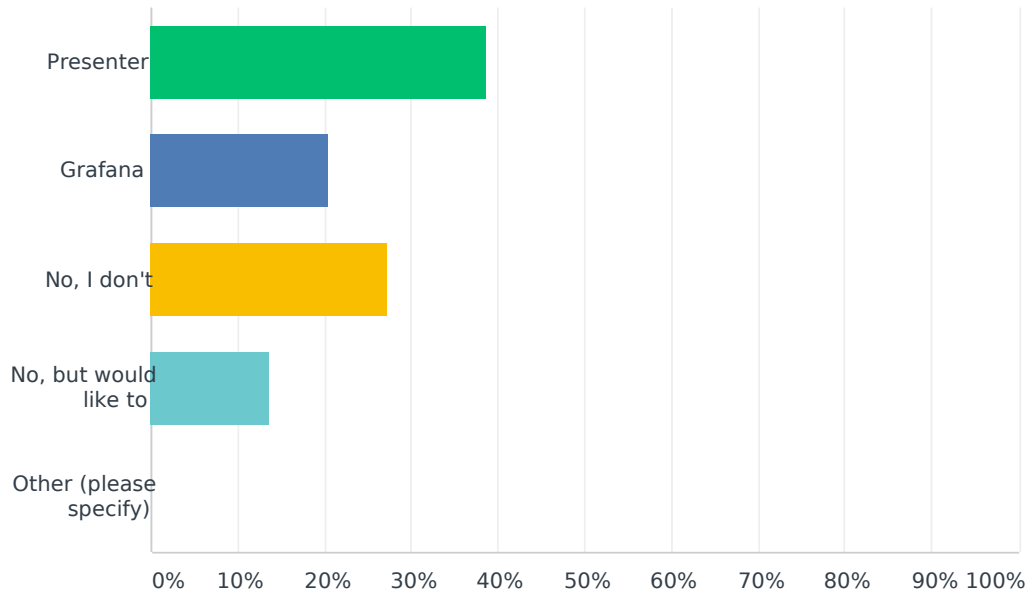
ANSWER CHOICES	RESPONSES	
Yes	82.50%	33
No	17.50%	7
TOTAL		40

As DNS is moving towards encrypted transport, support for features such as DNSTAP is going to be a must have. Therefore one of my goals for this year will be to add DNSTAP support to the main tools we have.

This will be done by creating a new library based on fstrm and protobuf-c, suited for both threaded and non-threaded software and with hooks for event engines. Hopefully this library can help others to use DNSTAP also.

## Q5 Do you visualize DSC data using?

Answered: 44 Skipped: 2



ANSWER CHOICES	RESPONSES	
Presenter	38.64%	17
Grafana	20.45%	9
No, I don't	27.27%	12
No, but would like to	13.64%	6
Other (please specify)	0.00%	0
<b>TOTAL</b>		<b>44</b>

I am happy to see that so many members are using Grafana, if you're one of them could you please give me some feedback as I would really like to hear how your using it.

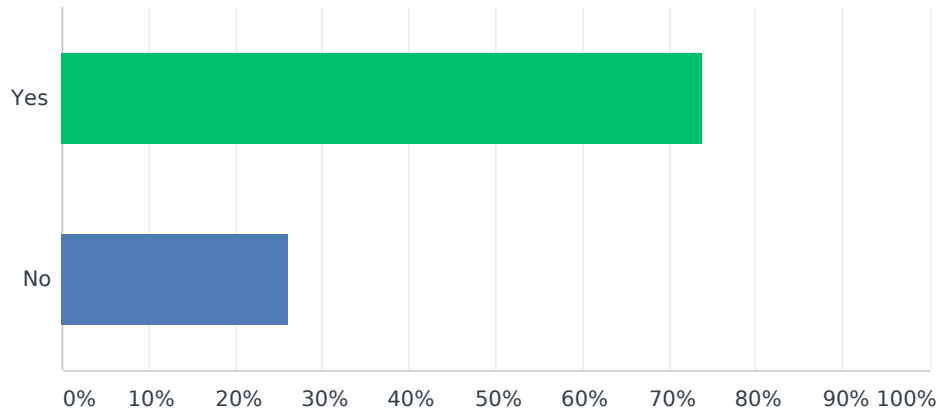
If you want to start visualizing DSC data then there are a few guides that you can follow:

- DSC/DSP Single-node <https://github.com/DNS-OARC/dsp/wiki/All-in-One-Setup-Guide>
- DSC/DSP Multi-node <https://github.com/DNS-OARC/dsp/wiki/Multi-Node-Setup-Guide>
- Grafana <https://github.com/DNS-OARC/dsc-datatool/wiki/Setting-up-a-test-Grafana>

And let us know if you need any help with the set up, remotely or on-site!

## Q6 Would search and analytics engine support (Elasticsearch/ELK, Solr, ClickHouse etc) for DSC be useful for you?

Answered: 42 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	73.81%	31
No	26.19%	11
TOTAL		42

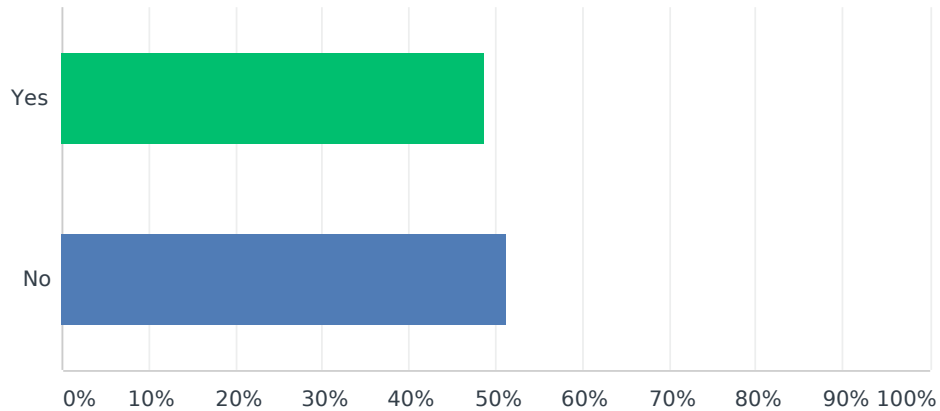
There have been a lot of presentations around the usage of ClickHouse lately and I wanted to get a feel if people were interested in support for such backends.

Now for DSC this is a bit tricky because DSC is already summarized information. But I am glad to see that there is an interest in this so I will need to think about this and how to move forward.



## Q7 Would message queue support (RabbitMQ/Kafka etc) for DSC be useful for you?

Answered: 39 Skipped: 7



ANSWER CHOICES	RESPONSES	
Yes	48.72%	19
No	51.28%	20
TOTAL		39

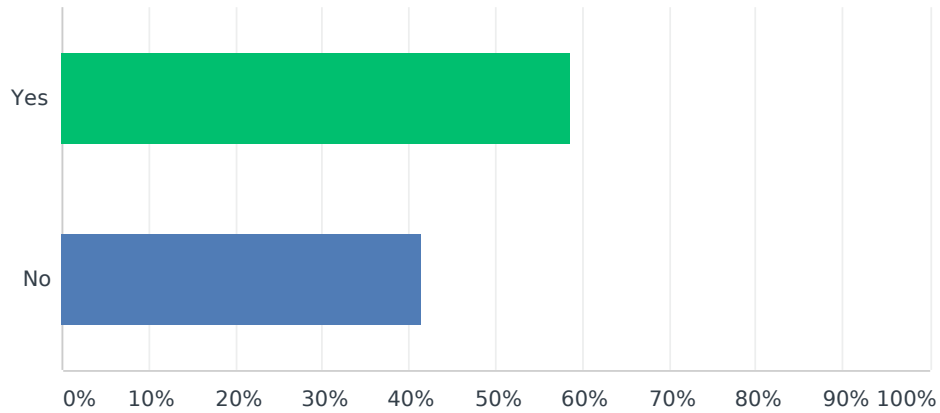
One comment on this question was about what the use case would be, which might be a bit hard to see if you're not already using a message queue (MQ).

This suggestion came from a member that already have MQ infrastructure in place and support in DSC would mean a different way to transport the data.

Because the responses were not overwhelming positive for this feature we will put it on hold for now.

## Q8 Would any of these features make you start using or use OARC software more then you are today?

Answered: 41 Skipped: 5



ANSWER CHOICES	RESPONSES	
Yes	58.54%	24
No	41.46%	17
TOTAL		41

Thank you! It's great to hear that we're on the right track.

If you have any other comments, feedback or suggestion please do not hesitate to contact me.