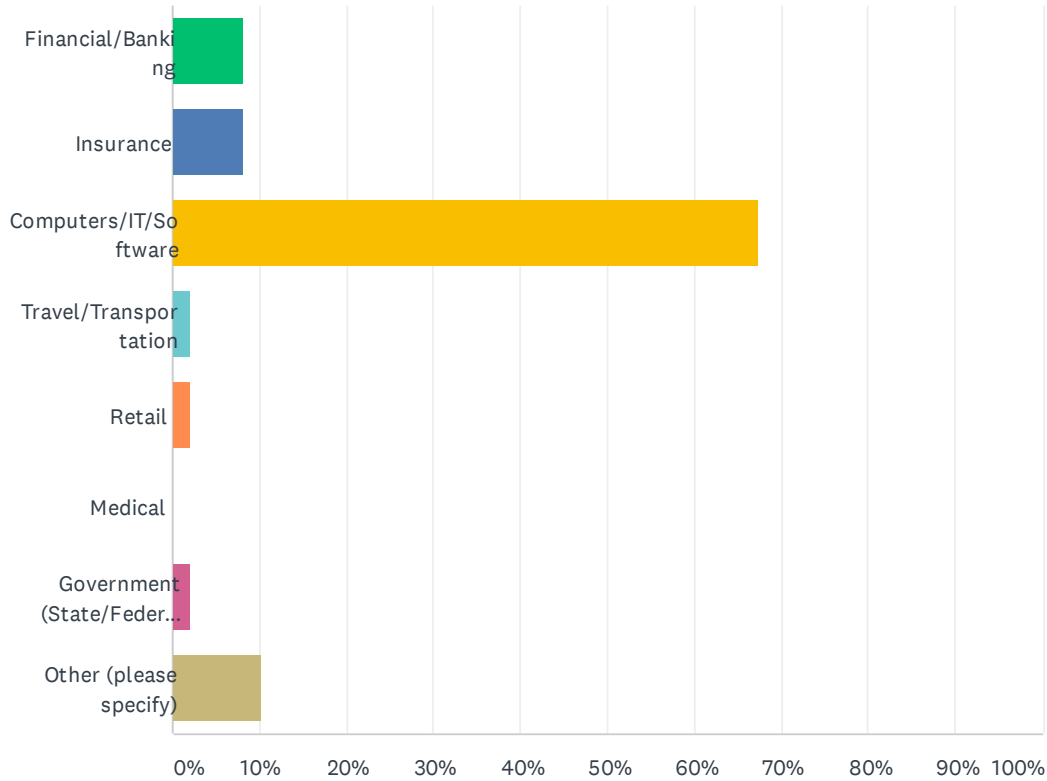


## Q2 Which Industry do you represent?

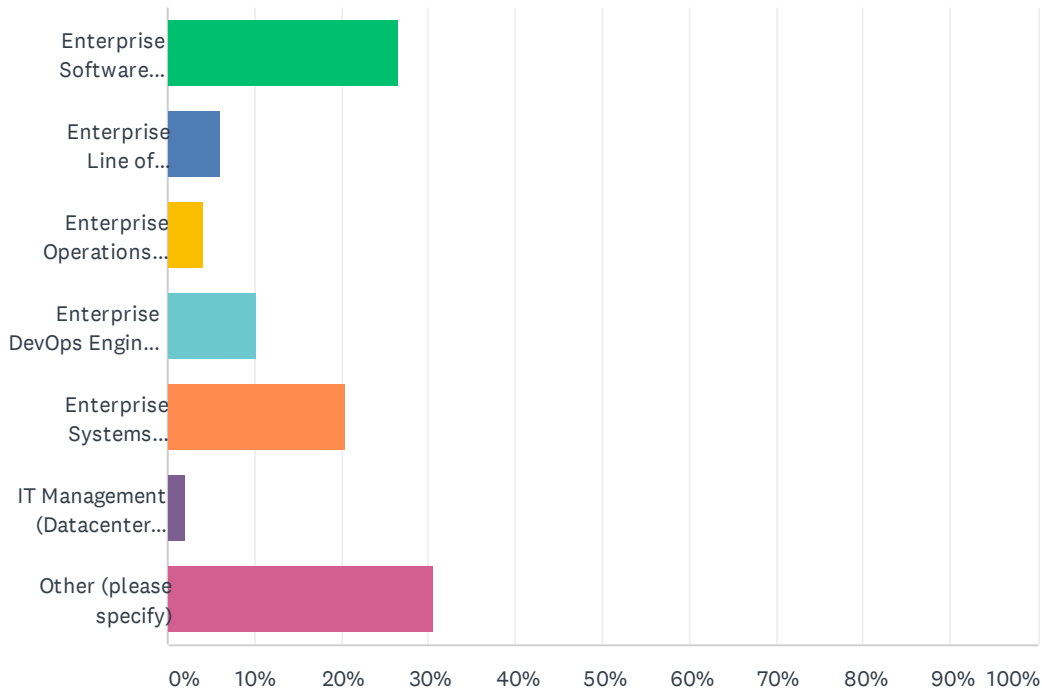
Answered: 49   Skipped: 2



ANSWER CHOICES	RESPONSES	
Financial/Banking	8.16%	4
Insurance	8.16%	4
Computers/IT/Software	67.35%	33
Travel/Transportation	2.04%	1
Retail	2.04%	1
Medical	0.00%	0
Government (State/Federal/City)	2.04%	1
Other (please specify)	10.20%	5
TOTAL		49

### Q3 What is your primary role?

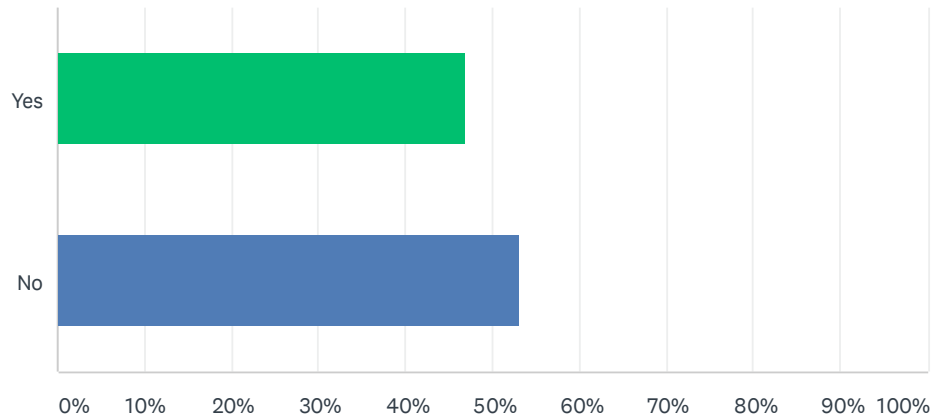
Answered: 49 Skipped: 2



ANSWER CHOICES	RESPONSES	
Enterprise Software Developer	26.53%	13
Enterprise Line of Business Manager responsible for products and applications	6.12%	3
Enterprise Operations Staff running/monitoring IT systems	4.08%	2
Enterprise DevOps Engineer responsible for build/test pipelines	10.20%	5
Enterprise Systems Programmer responsible for operating systems and/or hardware environments	20.41%	10
IT Management (Datacenter Manager, Technical Team Manager, Development Manager etc.)	2.04%	1
Other (please specify)	30.61%	15
TOTAL		49

## Q4 Is your role affiliated with an I.T. Service Provider?

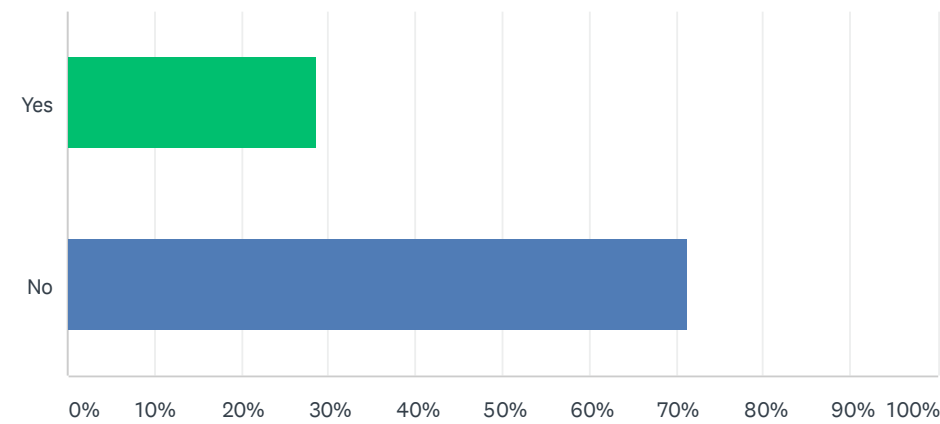
Answered: 49 Skipped: 2



ANSWER CHOICES	RESPONSES	
Yes	46.94%	23
No	53.06%	26
TOTAL		49

Q5 Are you a Zowe (Open Source) Contributor?

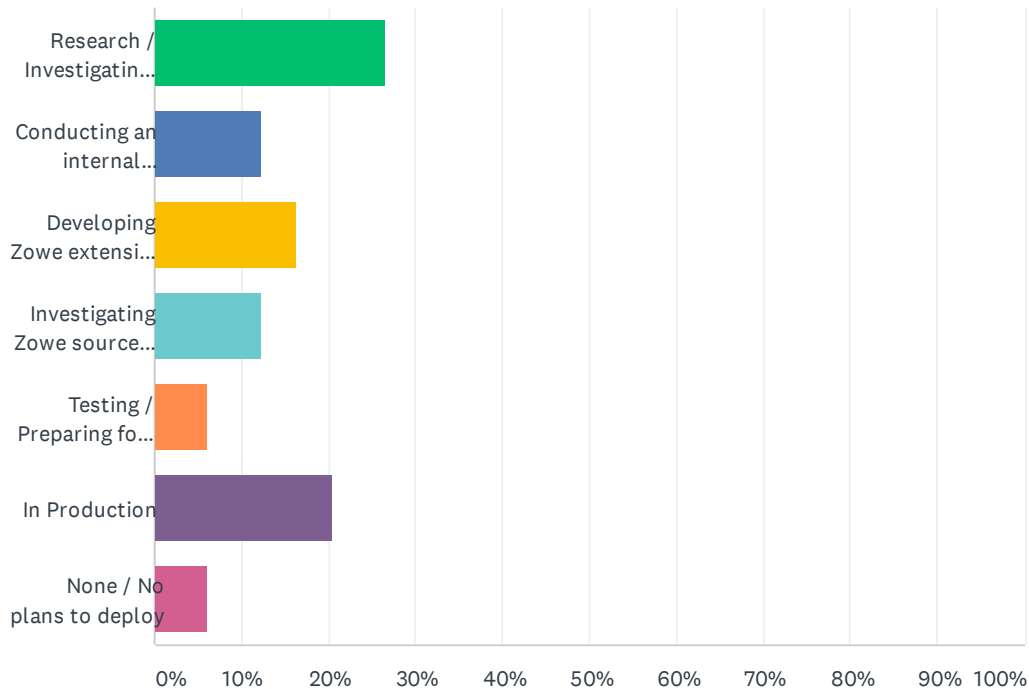
Answered: 49    Skipped: 2



ANSWER CHOICES		RESPONSES	
Yes		28.57%	14
No		71.43%	35
TOTAL			49

## Q6 What best describes your Zowe deployment state?

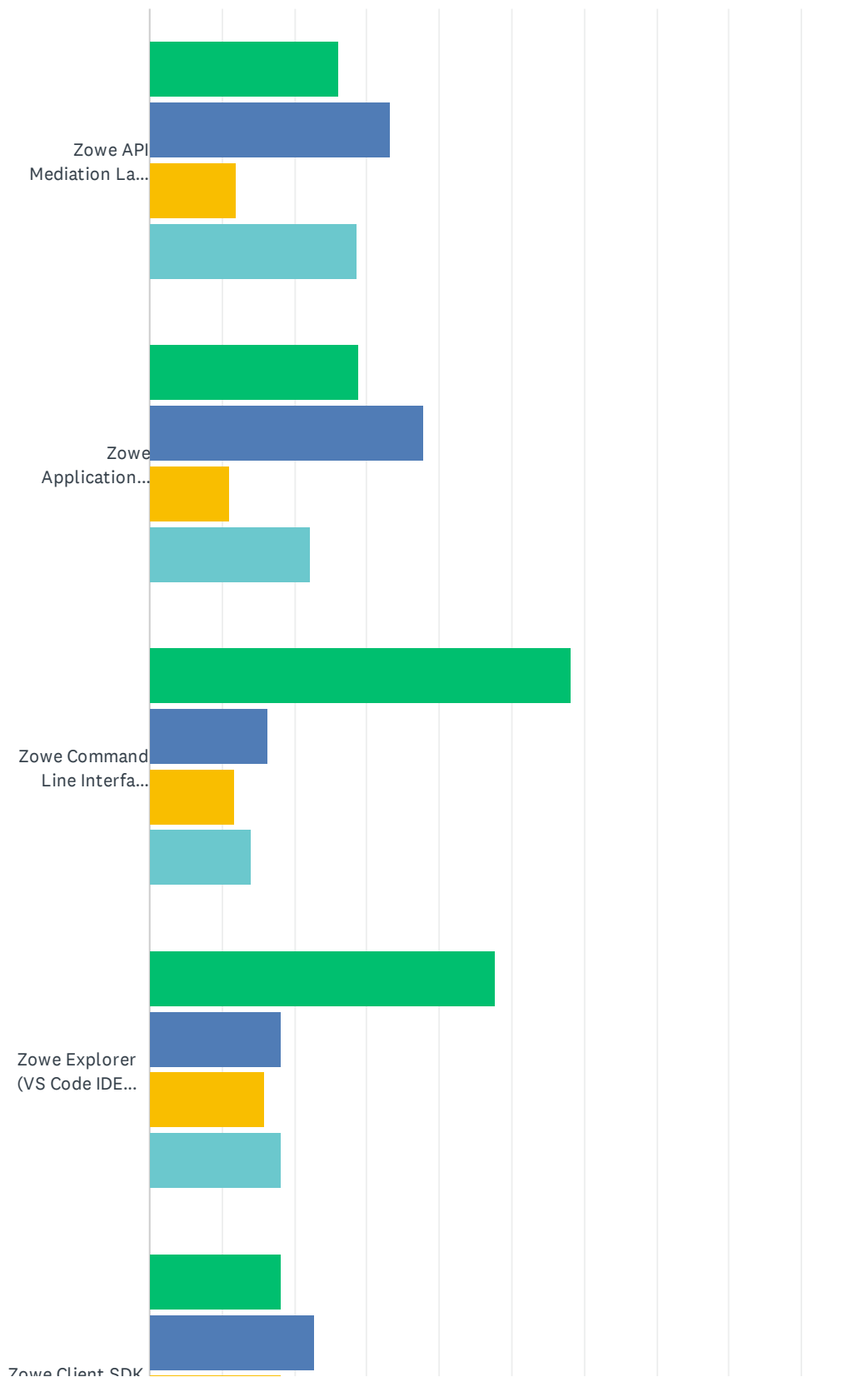
Answered: 49   Skipped: 2



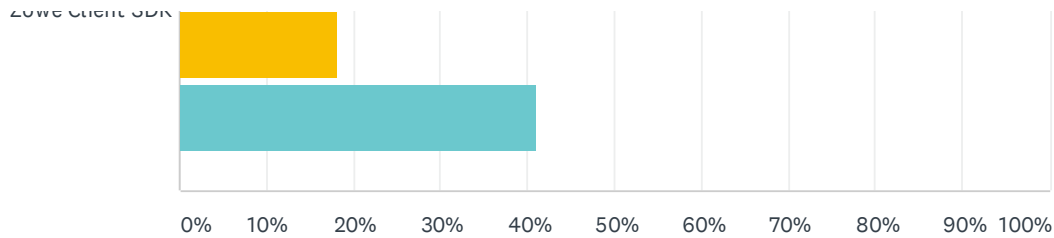
ANSWER CHOICES	RESPONSES	
Research / Investigating / Learning	26.53%	13
Conducting an internal proof-of-concept (POC) or pilot	12.24%	6
Developing Zowe extensions (REST APIs, plug-ins or web apps)	16.33%	8
Investigating Zowe source code for possible consumption (USE) or for making a CONTRIBUTION	12.24%	6
Testing / Preparing for production use	6.12%	3
In Production	20.41%	10
None / No plans to deploy	6.12%	3
TOTAL		49

## Q7 For each Zowe component, indicate: USING TODAY, PLAN TO USE, or HAVE NO PLANS TO USE

Answered: 48 Skipped: 3



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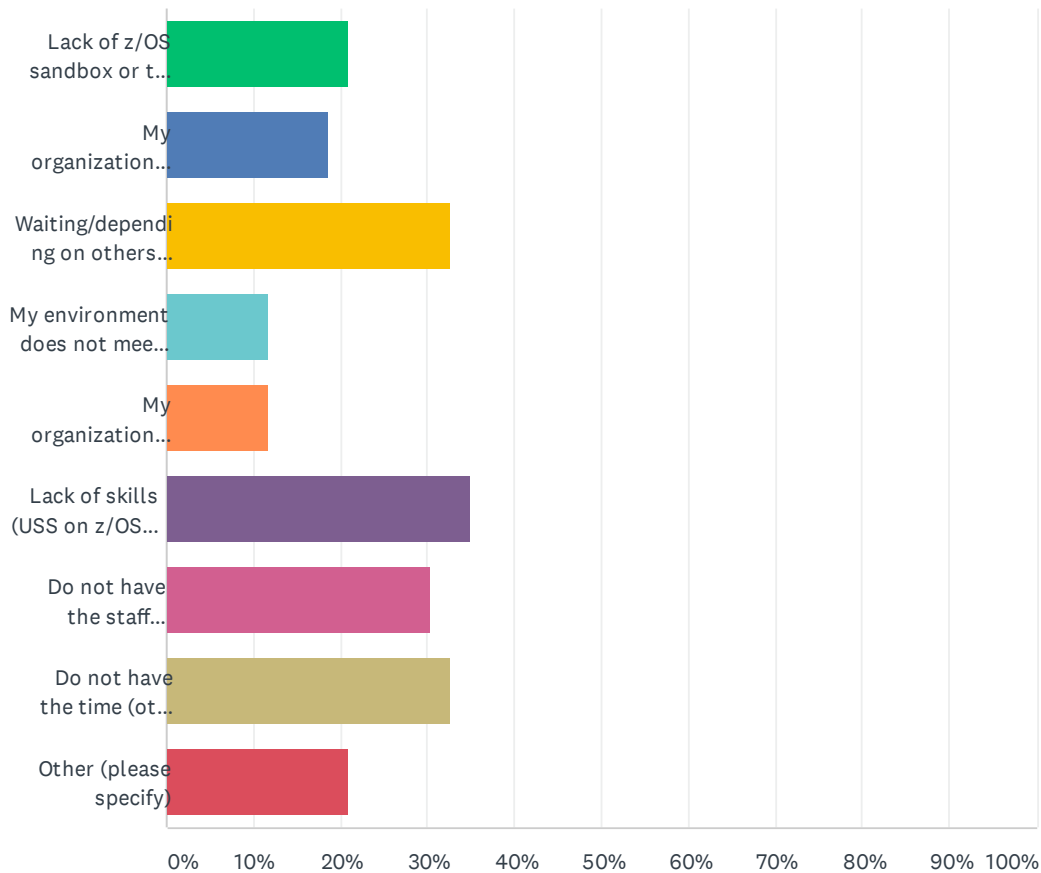


■ CURRENTLY using
 ■ PLAN to use
 ■ NO PLANS to use
 ■ Not Sure

	CURRENTLY USING	PLAN TO USE	NO PLANS TO USE	NOT SURE	TOTAL	WEIGHTED AVERAGE
Zowe API Mediation Layer (API ML)	26.19% 11	33.33% 14	11.90% 5	28.57% 12	42	2.43
Zowe Application Framework (Web UI)	28.89% 13	37.78% 17	11.11% 5	22.22% 10	45	2.27
Zowe Command Line Interface (CLI)	58.14% 25	16.28% 7	11.63% 5	13.95% 6	43	1.81
Zowe Explorer (VS Code IDE Extension)	47.73% 21	18.18% 8	15.91% 7	18.18% 8	44	2.05
Zowe Client SDK	18.18% 8	22.73% 10	18.18% 8	40.91% 18	44	2.82

## Q8 Which statement(s) describes a Zowe installation challenge(s) you have experienced. (select all that apply)

Answered: 43 Skipped: 8

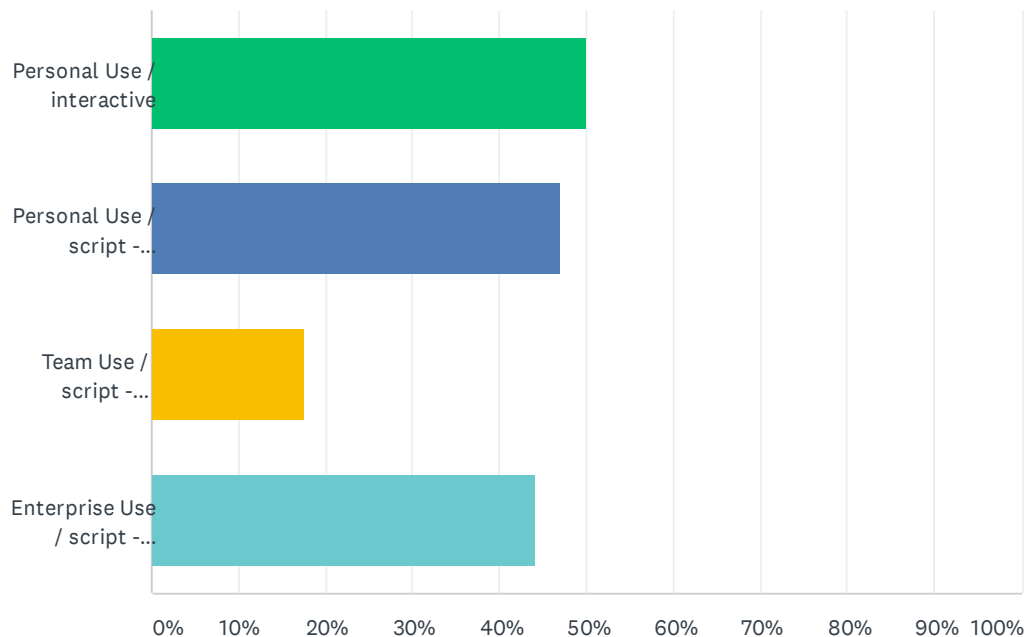


ANSWER CHOICES	RESPONSES	
Lack of z/OS sandbox or test environment	20.93%	9
My organization has security concerns with Open Source	18.60%	8
Waiting/depending on others i.e. insufficient resources, insufficient authority to install and configure	32.56%	14
My environment does not meet the pre-requisites for Zowe	11.63%	5
My organization has performance concerns	11.63%	5
Lack of skills (USS on z/OS, Node on z/OS, SMP/E etc.)	34.88%	15
Do not have the staff available to prioritize the installation and/or configuration	30.23%	13
Do not have the time (other priorities)	32.56%	14
Other (please specify)	20.93%	9
Total Respondents: 43		



## Q9 What best describes your use of Zowe CLI and/or Zowe SDK? (Check all that apply)

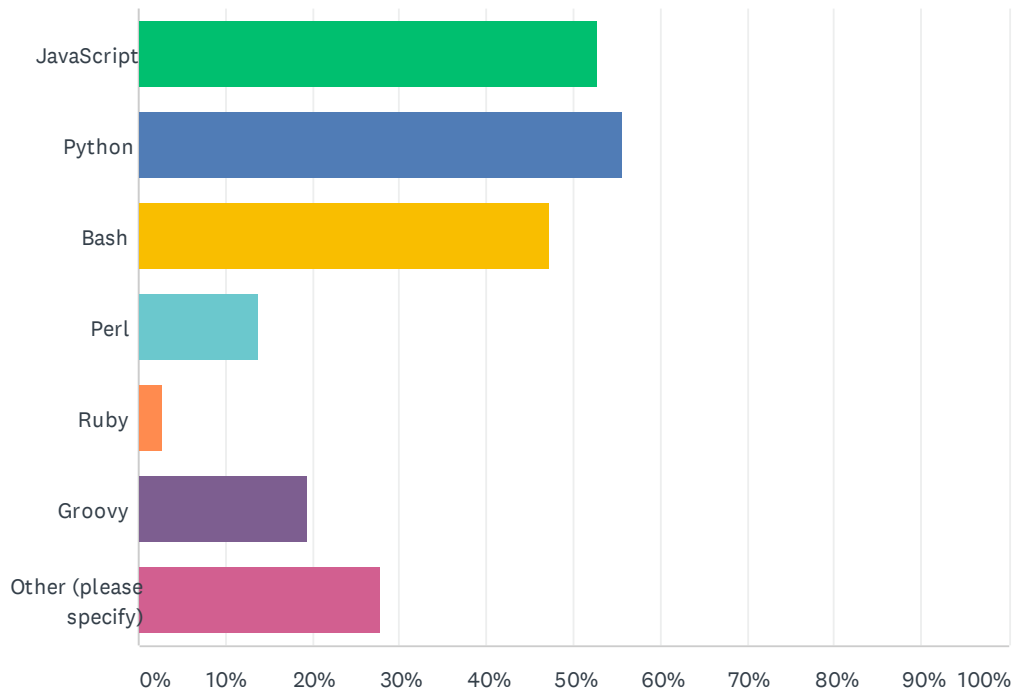
Answered: 34 Skipped: 17



ANSWER CHOICES	RESPONSES	
Personal Use / interactive	50.00%	17
Personal Use / script - automation	47.06%	16
Team Use / script - automation	17.65%	6
Enterprise Use / script - automation	44.12%	15
Total Respondents: 34		

## Q10 Which scripting languages have you used (or intend to use) to create automation using the Zowe CLI and/or Zowe SDK? (check all that apply)

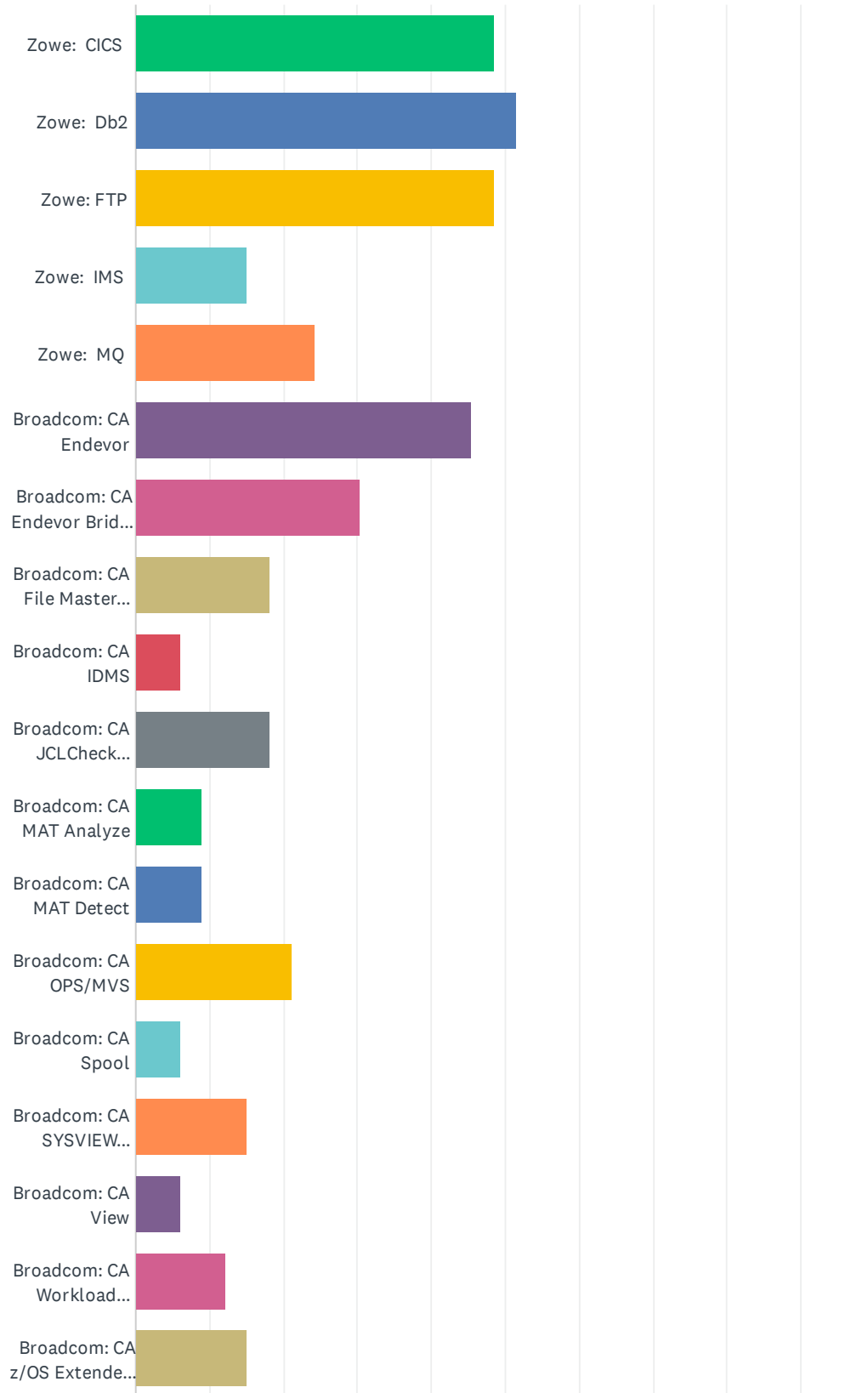
Answered: 36 Skipped: 15



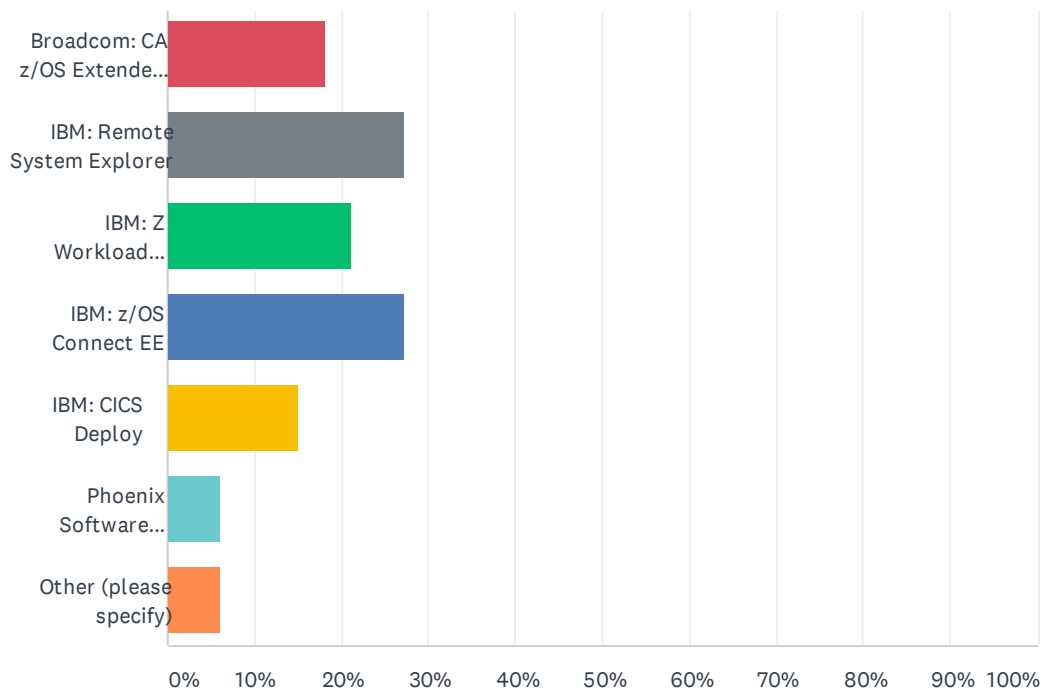
ANSWER CHOICES	RESPONSES	
JavaScript	52.78%	19
Python	55.56%	20
Bash	47.22%	17
Perl	13.89%	5
Ruby	2.78%	1
Groovy	19.44%	7
Other (please specify)	27.78%	10
Total Respondents: 36		

## Q11 Which of the Zowe Core / Zowe Conformant CLI plug-ins have you downloaded and used or intend to use (check all that apply)

Answered: 33   Skipped: 18



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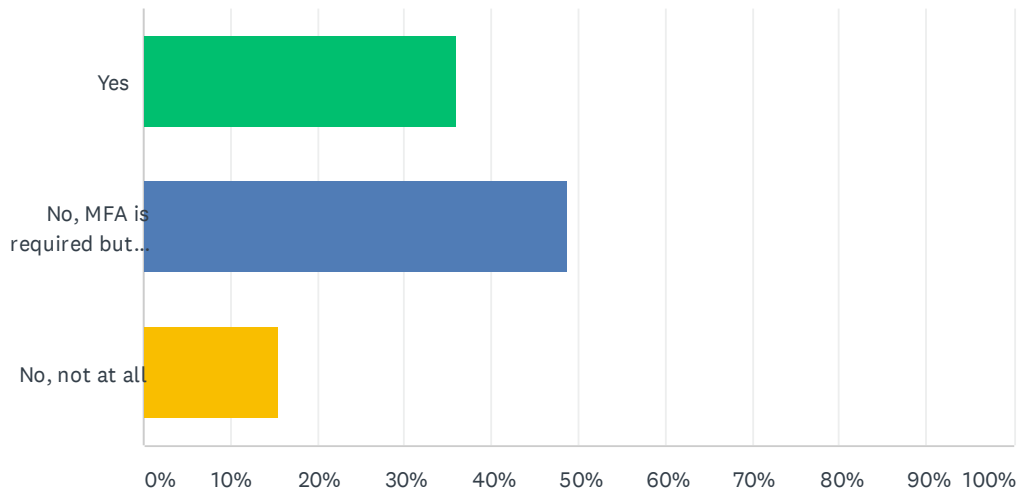


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ANSWER CHOICES	RESPONSES	
Zowe: CICS	48.48%	16
Zowe: Db2	51.52%	17
Zowe: FTP	48.48%	16
Zowe: IMS	15.15%	5
Zowe: MQ	24.24%	8
Broadcom: CA Endevor	45.45%	15
Broadcom: CA Endevor Bridge for Git	30.30%	10
Broadcom: CA File Master Plus	18.18%	6
Broadcom: CA IDMS	6.06%	2
Broadcom: CA JCLCheck Workload Automation	18.18%	6
Broadcom: CA MAT Analyze	9.09%	3
Broadcom: CA MAT Detect	9.09%	3
Broadcom: CA OPS/MVS	21.21%	7
Broadcom: CA Spool	6.06%	2
Broadcom: CA SYSVIEW Performance Management	15.15%	5
Broadcom: CA View	6.06%	2
Broadcom: CA Workload Automation CA-7	12.12%	4
Broadcom: CA z/OS Extended Files	15.15%	5
Broadcom: CA z/OS Extended Jobs	18.18%	6
IBM: Remote System Explorer	27.27%	9
IBM: Z Workload Scheduler	21.21%	7
IBM: z/OS Connect EE	27.27%	9
IBM: CICS Deploy	15.15%	5
Phoenix Software International: (E)JES	6.06%	2
Other (please specify)	6.06%	2
Total Respondents: 33		

## Q12 Does your site require (comprehensive) multi-factor authentication for mainframe access?

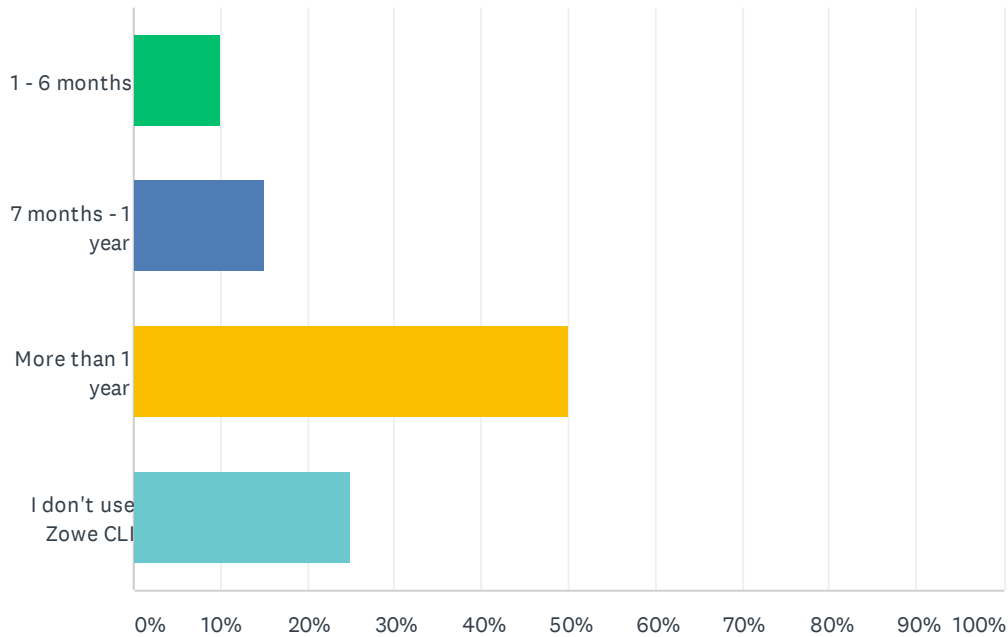
Answered: 39   Skipped: 12



ANSWER CHOICES	RESPONSES	
Yes	35.90%	14
No, MFA is required but not for all mainframe access	48.72%	19
No, not at all	15.38%	6
TOTAL		39

## Q13 How long have you been using Zowe CLI?

Answered: 40   Skipped: 11



ANSWER CHOICES	RESPONSES	
1 - 6 months	10.00%	4
7 months - 1 year	15.00%	6
More than 1 year	50.00%	20
I don't use Zowe CLI	25.00%	10
TOTAL		40

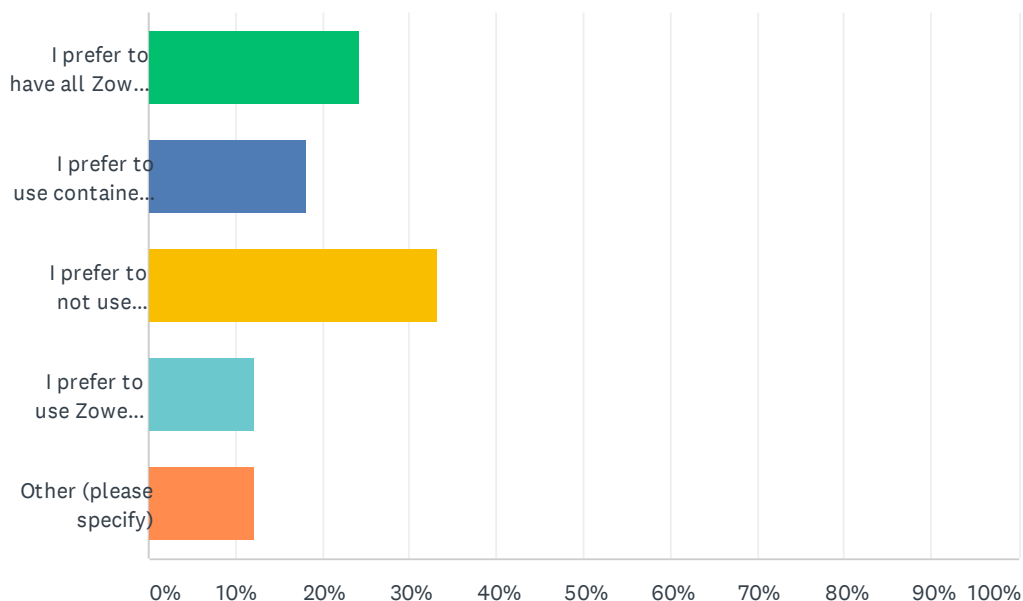
**Q14 What Zowe CLI plug-ins would you like to see developed? Please list them below.**

Answered: 13   Skipped: 38



## Q15 Which container (e.g. Docker, zCX) technology is most important for your use with Zowe?

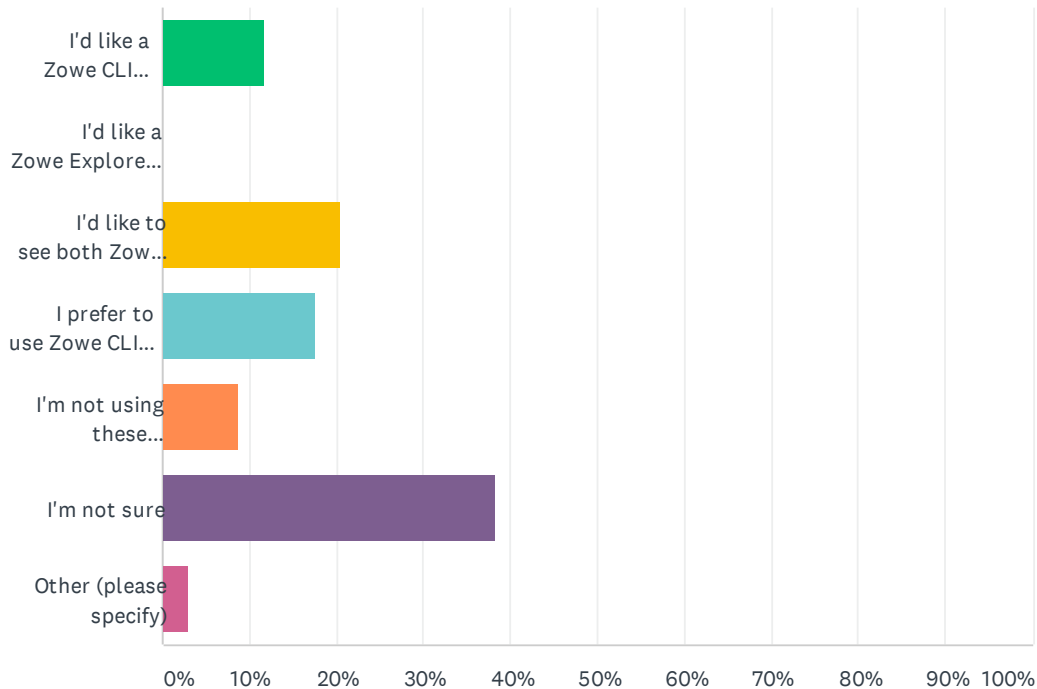
Answered: 33 Skipped: 18



ANSWER CHOICES	RESPONSES	
I prefer to have all Zowe components in a single container	24.24%	8
I prefer to use containers with orchestration tech (e.g. Kubernetes, OpenShift)	18.18%	6
I prefer to not use containers	33.33%	11
I prefer to use Zowe through zCX	12.12%	4
Other (please specify)	12.12%	4
TOTAL		33

## Q16 Which additional Zowe components should be containerized?

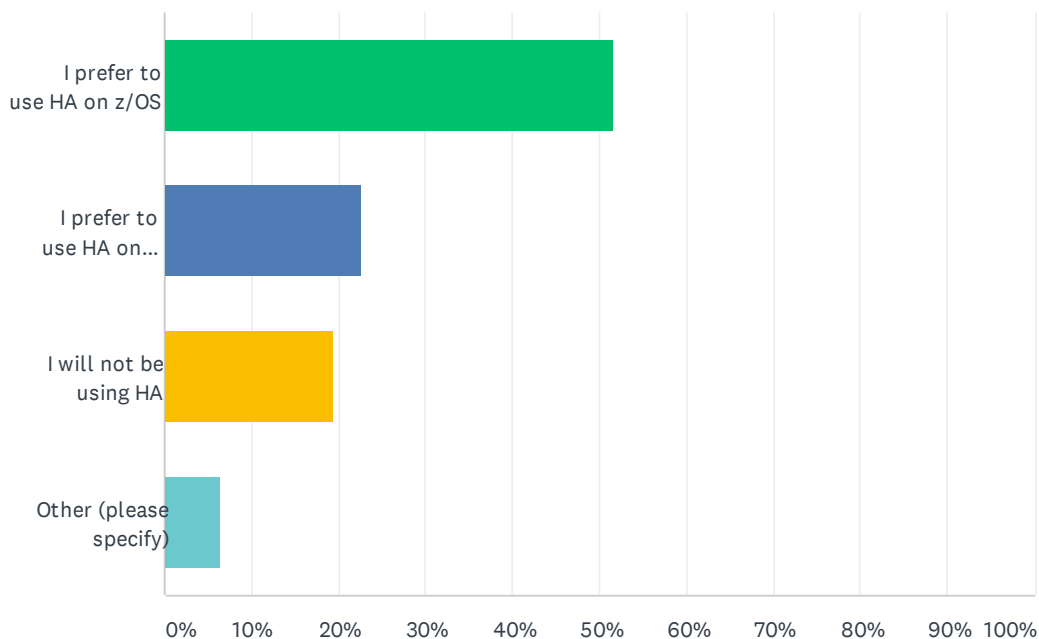
Answered: 34   Skipped: 17



ANSWER CHOICES	RESPONSES	
I'd like a Zowe CLI container	11.76%	4
I'd like a Zowe Explorer container	0.00%	0
I'd like to see both Zowe CLI and Zowe Explorer as containers	20.59%	7
I prefer to use Zowe CLI and Zowe Explorer without a container	17.65%	6
I'm not using these components	8.82%	3
I'm not sure	38.24%	13
Other (please specify)	2.94%	1
<b>TOTAL</b>		<b>34</b>

## Q17 What would be your preferred way to run a High Availability (HA) configuration of Zowe?

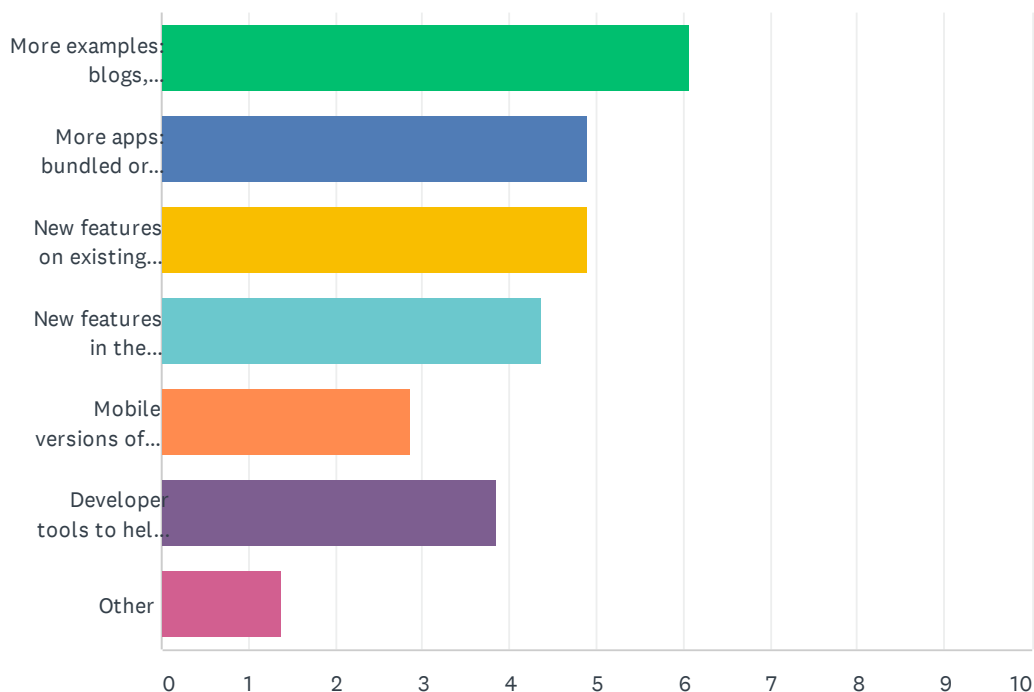
Answered: 31 Skipped: 20



ANSWER CHOICES	RESPONSES	
I prefer to use HA on z/OS	51.61%	16
I prefer to use HA on Docker	22.58%	7
I will not be using HA	19.35%	6
Other (please specify)	6.45%	2
TOTAL		31

## Q18 Using the list below, Rank (1=high, 7=low) what you'd like us (the App Framework Squad) to focus on:

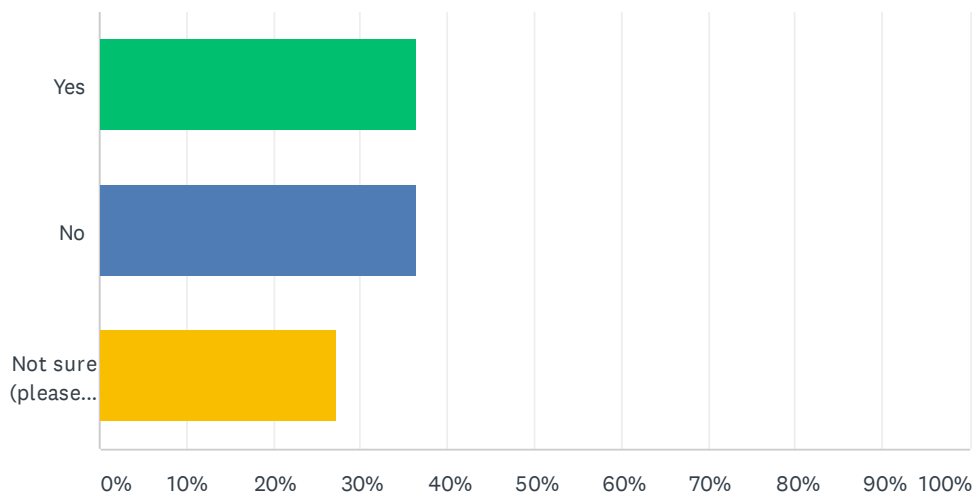
Answered: 32 Skipped: 19



	1	2	3	4	5	6	7	TOTAL	SCORE
More examples: blogs, tutorials, and sample code	54.84% 17	19.35% 6	6.45% 2	16.13% 5	3.23% 1	0.00% 0	0.00% 0	31	6.06
More apps: bundled or optional web desktop programs	10.00% 3	30.00% 9	30.00% 9	10.00% 3	13.33% 4	3.33% 1	3.33% 1	30	4.90
New features on existing apps: such as more features for the editor or JES explorer	7.14% 2	32.14% 9	28.57% 8	17.86% 5	7.14% 2	3.57% 1	3.57% 1	28	4.89
New features in the framework itself: either to make the desktop more powerful directly (e.g. folders, hotkey customization) or to add abilities that apps can use (e.g. taskbar area, recents list etc.)	6.67% 2	10.00% 3	26.67% 8	30.00% 9	23.33% 7	3.33% 1	0.00% 0	30	4.37
Mobile versions of apps: mobile editor, JES explorer	6.90% 2	0.00% 0	3.45% 1	13.79% 4	24.14% 7	41.38% 12	10.34% 3	29	2.86
Developer tools to help me build apps: app generator, validation, encoders and more	12.90% 4	12.90% 4	9.68% 3	9.68% 3	22.58% 7	29.03% 9	3.23% 1	31	3.84
Other	4.76% 1	0.00% 0	0.00% 0	0.00% 0	0.00% 0	9.52% 2	85.71% 18	21	1.38

**Q19 Background: Zowe Explorer Data Set Allocation:** Since our last survey where responses revealed you weren't happy with the Zowe Explorer Data Set Creation features, we have added the Allocate Like feature and are in the process of adding Property Edits. The Data Set Creation process currently includes a TYPE choice: BINARY, C, CLASSIC, PARTITIONED, or SEQUENTIAL. We are considering adding new (additional) templates for Data Set Creation to make the TYPE choices easier to understand and more in line with prior survey responses. Do you think we need to make changes to the existing list of data set TYPES?

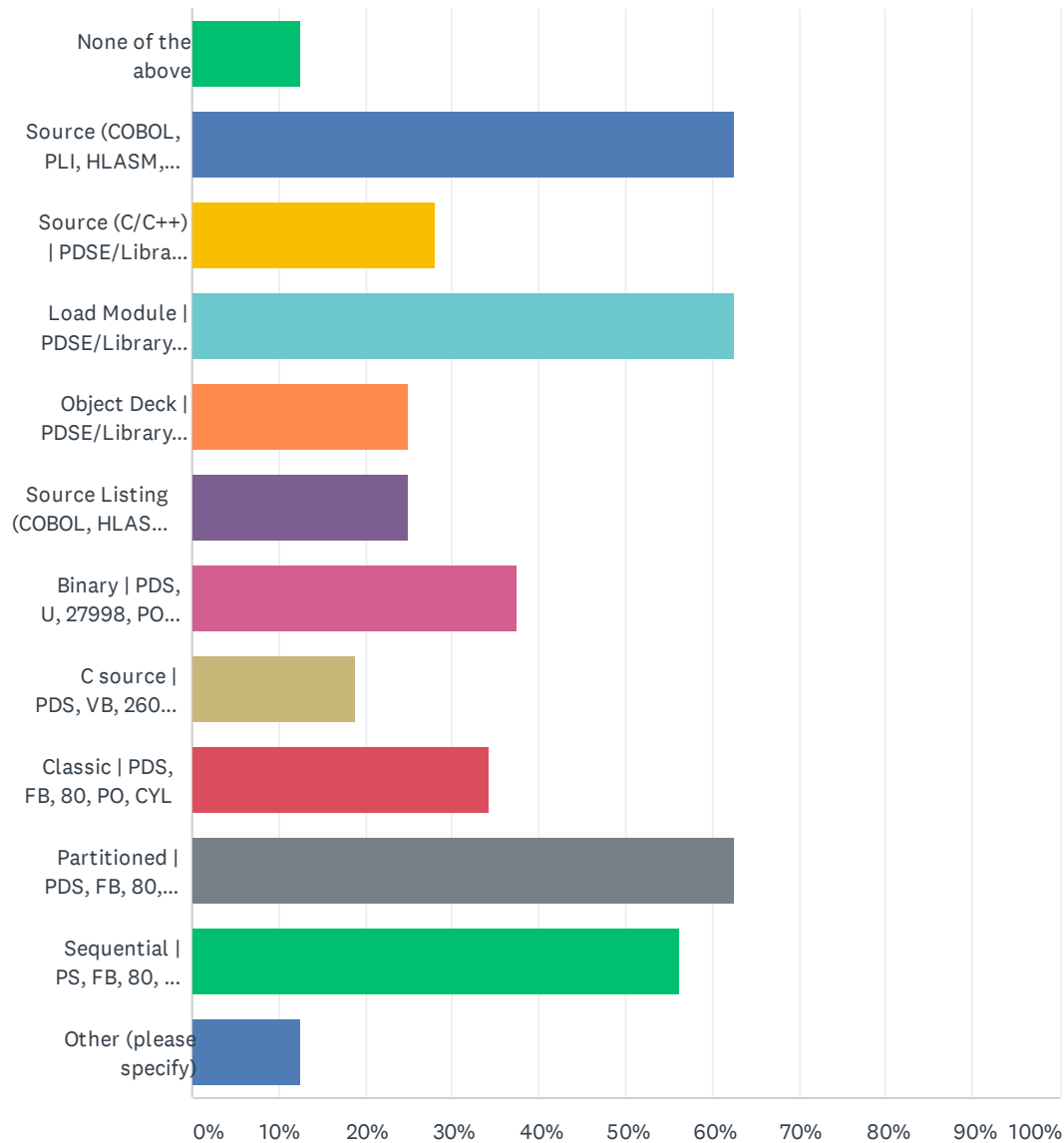
Answered: 33   Skipped: 18



ANSWER CHOICES	RESPONSES	
Yes	36.36%	12
No	36.36%	12
Not sure (please explain)	27.27%	9
TOTAL		33

Q20 Zowe Explorer Data Set Allocation continued: If we change and/or add new entries for the TYPE of data set choices, which of the following (with default parameters) make the most sense to provide for your (or your users) use? Select all that apply.

Answered: 32   Skipped: 19

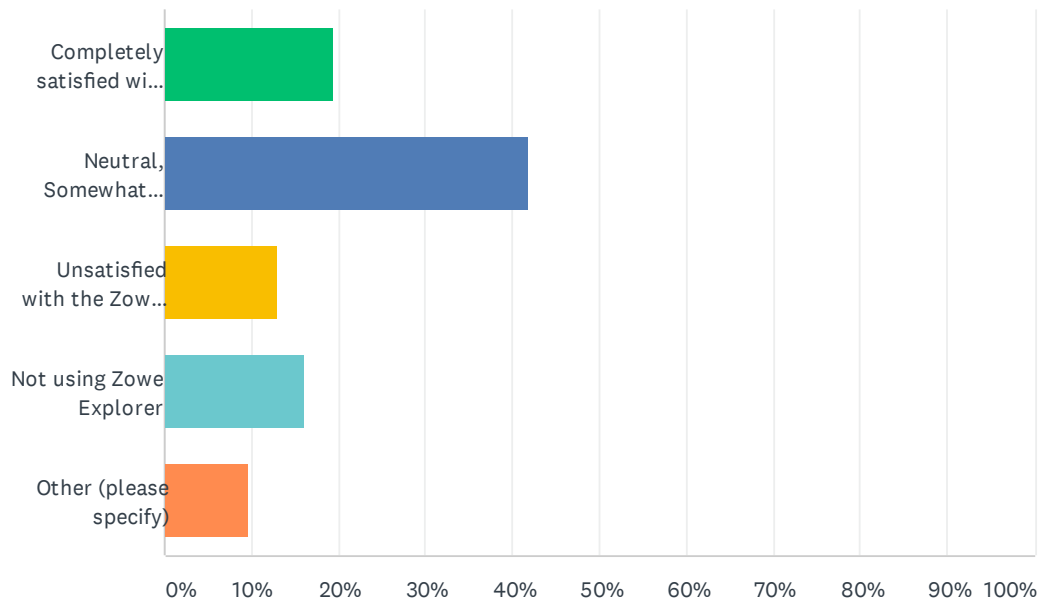


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ANSWER CHOICES	RESPONSES	
None of the above	12.50%	4
Source (COBOL, PLI, HLASM, JCL)   PDSE/Library, FB, 80, PO, BLK	62.50%	20
Source (C/C++)   PDSE/Library, FB, 260, PO, BLK	28.13%	9
Load Module   PDSE/Library, U, 0, PO, BLK	62.50%	20
Object Deck   PDSE/Library, FB, 80, PO, BLK	25.00%	8
Source Listing (COBOL, HLASM)   PDSE/Library, FBA, 133, PO, BLK	25.00%	8
Binary   PDS, U, 27998, PO, CYL	37.50%	12
C source   PDS, VB, 260, PO, CYL	18.75%	6
Classic   PDS, FB, 80, PO, CYL	34.38%	11
Partitioned   PDS, FB, 80, PO, CYL	62.50%	20
Sequential   PS, FB, 80, PS, BLK	56.25%	18
Other (please specify)	12.50%	4
Total Respondents: 32		

**Q21 Zowe Explorer Refresh: Please rate your level of satisfaction with the Zowe Explorer Refresh i.e. Are you able to easily refresh profiles, files/folders, datasets, and jobs in Zowe Explorer as needed, or do you feel there is some functionality lacking in the way Zowe Explorer allows you to refresh things?**

Answered: 31 Skipped: 20

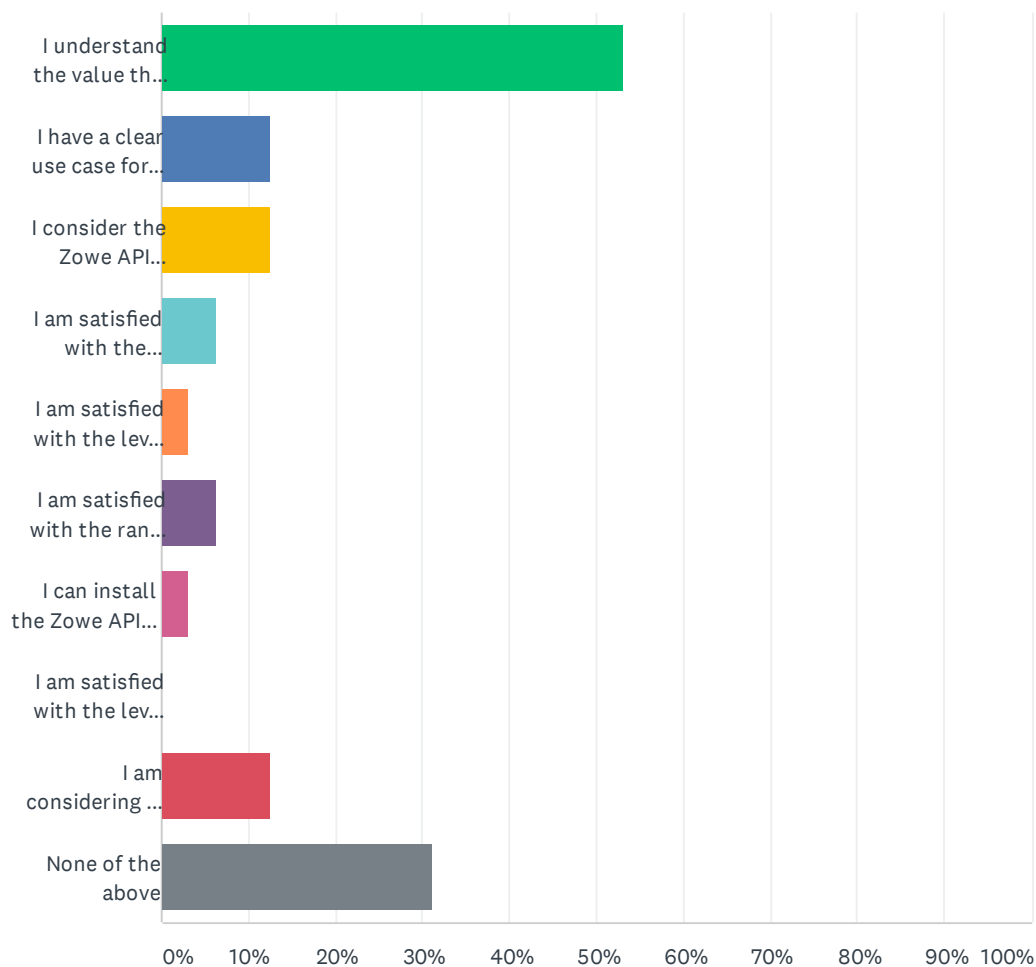


ANSWER CHOICES	RESPONSES	
Completely satisfied with the Zowe Explorer Refresh, works great for my usage	19.35%	6
Neutral, Somewhat satisfied with the Zowe Explorer Refresh, good enough for my usage	41.94%	13
Unsatisfied with the Zowe Explorer refresh, the Zowe Explorer Squad should focus on improving it	12.90%	4
Not using Zowe Explorer	16.13%	5
Other (please specify)	9.68%	3
<b>TOTAL</b>		<b>31</b>



## Q22 Which of the following statements describe your opinion/understanding of the Zowe API Mediation (select all that apply)

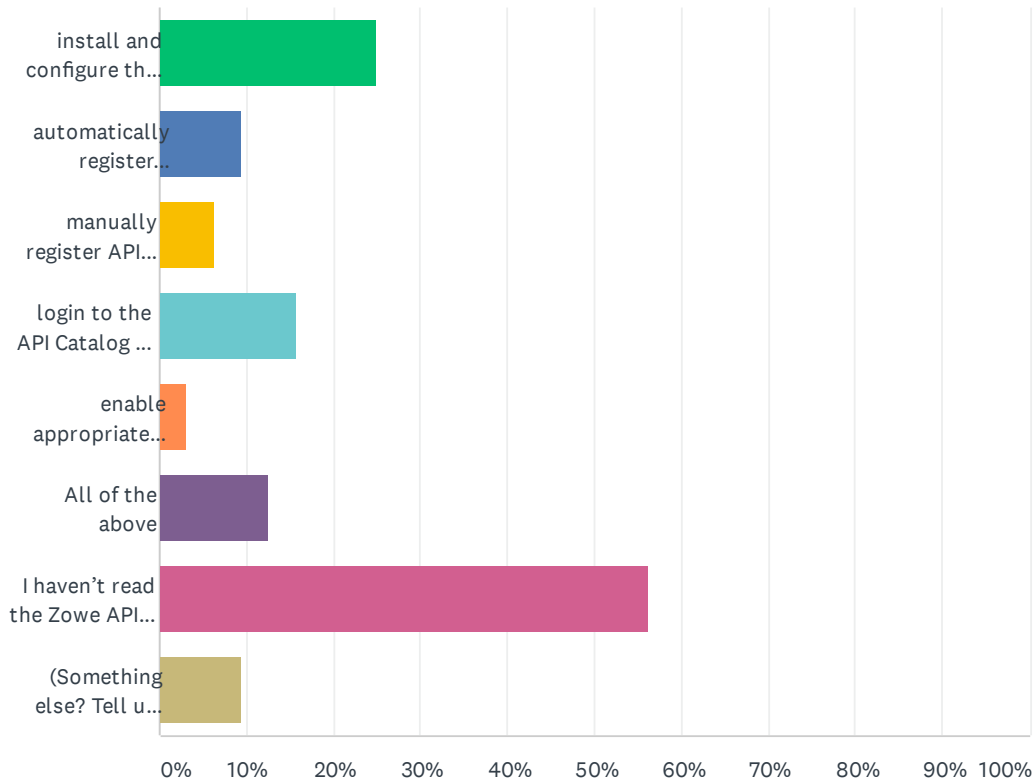
Answered: 32 Skipped: 19



ANSWER CHOICES	RESPONSES	
I understand the value the Zowe API Mediation Layer offers within Zowe	53.13%	17
I have a clear use case for the Zowe API Mediation Layer	12.50%	4
I consider the Zowe API Mediation Layer to be enterprise-grade	12.50%	4
I am satisfied with the security configuration options for the Zowe API Mediation Layer	6.25%	2
I am satisfied with the level of support available for the Zowe API Mediation Layer	3.13%	1
I am satisfied with the range of conformant APIs available for use with the Zowe API Mediation Layer	6.25%	2
I can install the Zowe API Mediation Layer without outside assistance	3.13%	1
I am satisfied with the level of Performance of the Zowe API Mediation Layer on my system (low CPU consumption, no system/network latency, etc.)	0.00%	0
I am considering the Zowe API Mediation Layer for use on the zD&T environment	12.50%	4
None of the above	31.25%	10
Total Respondents: 32		

## Q23 The Zowe Docs documentation provides an overview of the Zowe API Mediation Layer. After reading Zowe Docs, I understand how to (select all that apply):

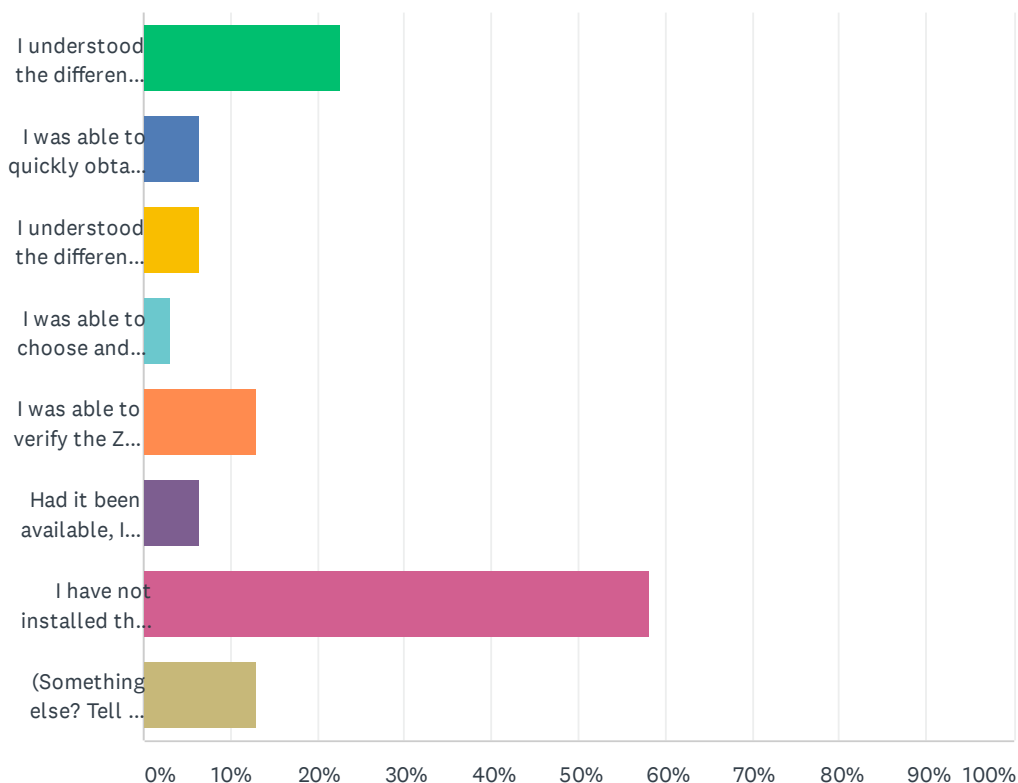
Answered: 32 Skipped: 19



ANSWER CHOICES	RESPONSES	
install and configure the Zowe API Mediation Layer	25.00%	8
automatically register existing APIs and add them to the API Catalog	9.38%	3
manually register APIs to the API Catalog	6.25%	2
login to the API Catalog to view, test, monitor and manage APIs	15.63%	5
enable appropriate security options	3.13%	1
All of the above	12.50%	4
I haven't read the Zowe API Mediation Layer section in Zowe Docs	56.25%	18
(Something else? Tell us more...)	9.38%	3
Total Respondents: 32		

## Q24 Which of the following statements match your experience of installing and configuring the Zowe API Mediation Layer? (select all that apply)

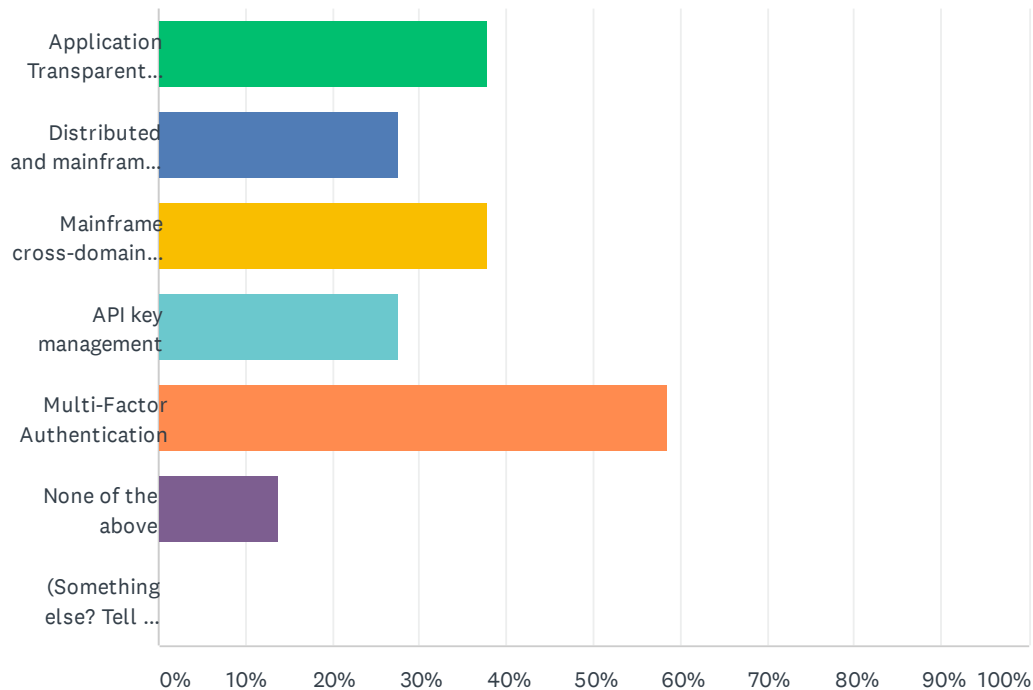
Answered: 31 Skipped: 20



ANSWER CHOICES	RESPONSES	
I understood the difference between the "Convenience Build" and "SMP/E Build" and was able to choose which to install	22.58%	7
I was able to quickly obtain and install the build I had chosen	6.45%	2
I understood the different options for configuring the Zowe runtime	6.45%	2
I was able to choose and configure Zowe certificates according to my needs	3.23%	1
I was able to verify the Zowe API Mediation Layer install after getting Zowe running	12.90%	4
Had it been available, I would have liked to install using a z/OSMF portable software instance and workflows	6.45%	2
I have not installed the Zowe API Mediation Layer	58.06%	18
(Something else? Tell us more...)	12.90%	4
Total Respondents: 31		

## Q25 Which of the following security options should the Zowe Community focus on in 2021? (select all that apply)

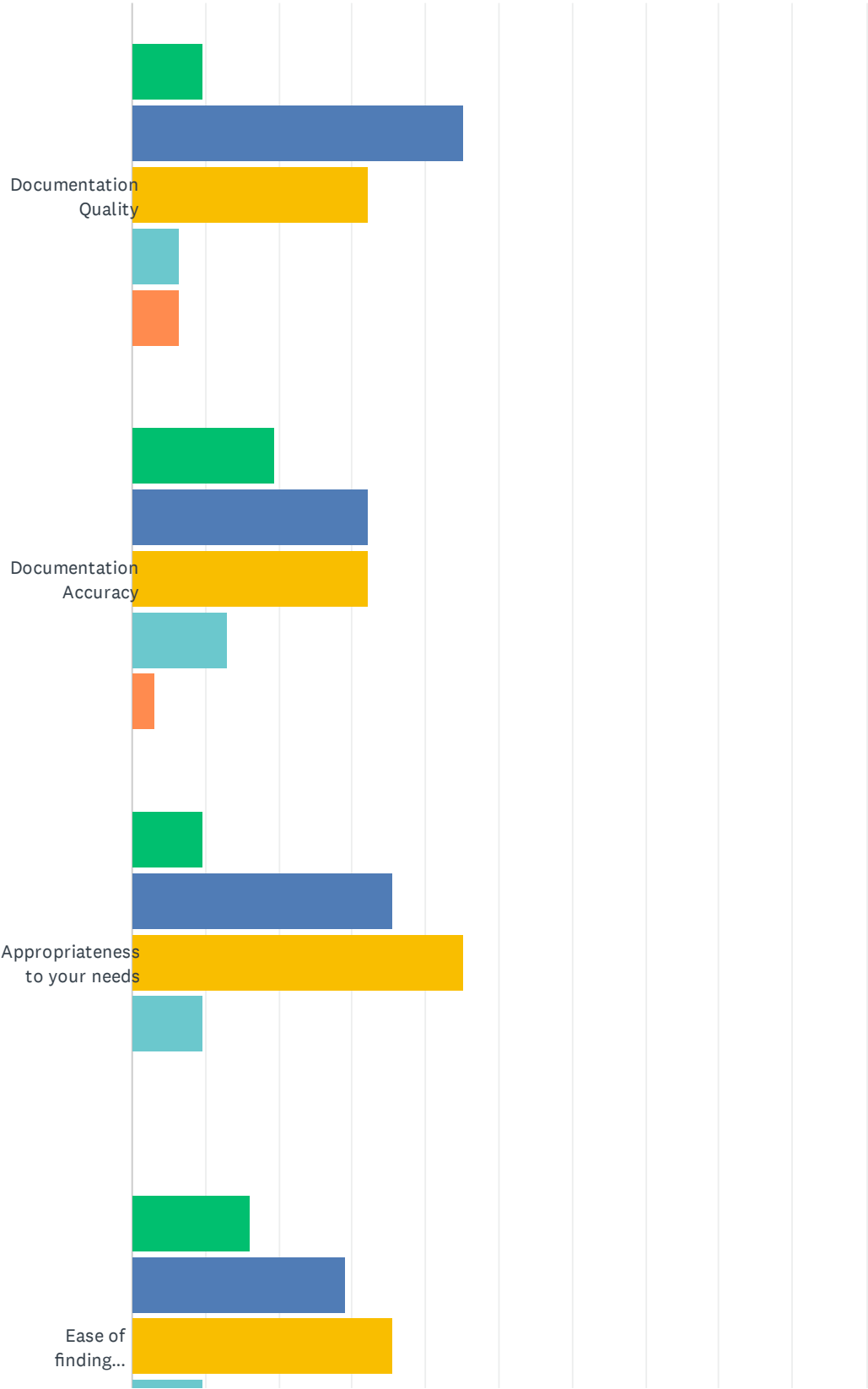
Answered: 29   Skipped: 22

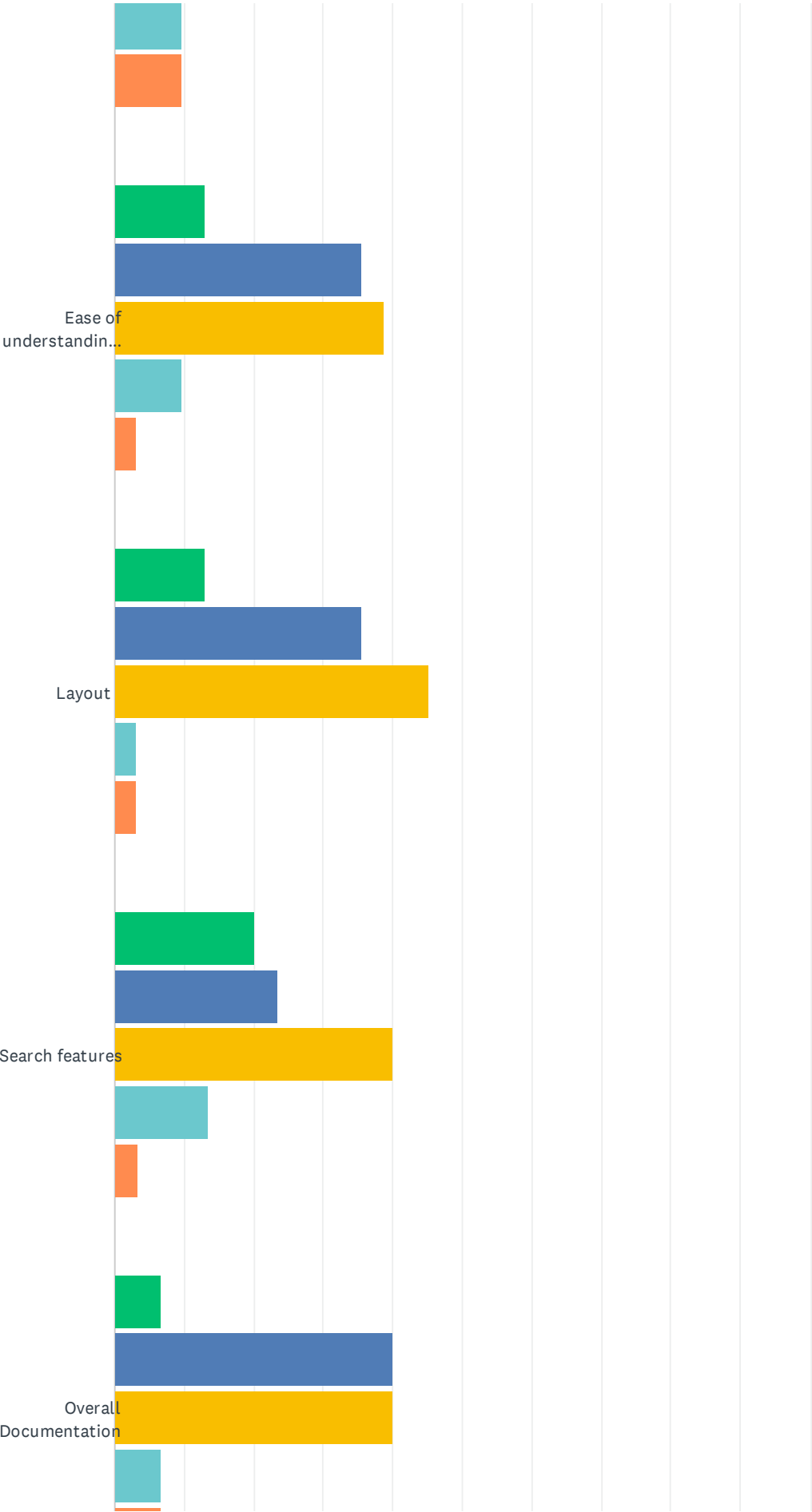


ANSWER CHOICES	RESPONSES	
Application Transparent Transport Layer Security (AT-TLS) support	37.93%	11
Distributed and mainframe identity federation	27.59%	8
Mainframe cross-domain authentication (e.g. LPAR1 uses Top Secret, LPAR2 uses RACF, LPAR3 uses ACF2; consume API's from all 3 LPARs using a single Username and Password via Zowe API Mediation Layer)	37.93%	11
API key management	27.59%	8
Multi-Factor Authentication	58.62%	17
None of the above	13.79%	4
(Something else? Tell us more...)	0.00%	0
Total Respondents: 29		

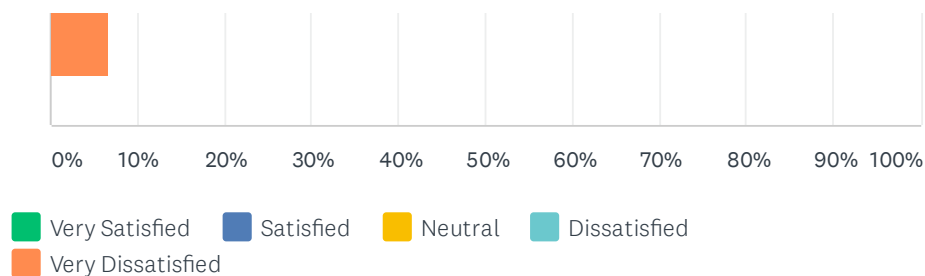
Q26 How satisfied are you with the following characteristics of the Zowe documentation? (Complete the matrix below)

Answered: 31    Skipped: 20





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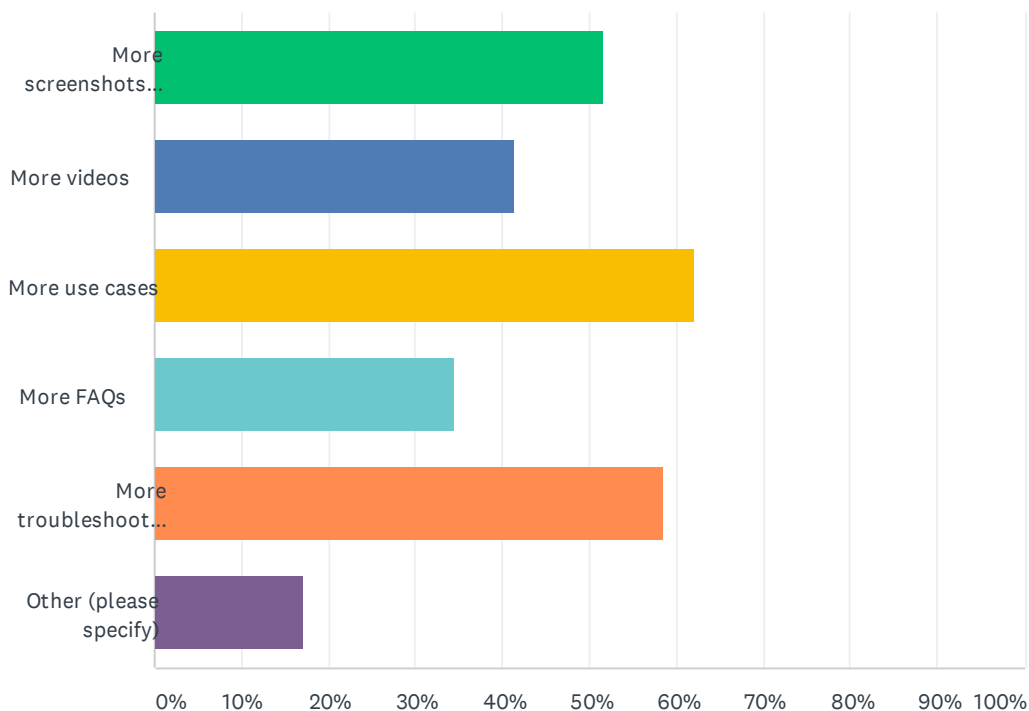


	VERY SATISFIED	SATISFIED	NEUTRAL	DISSATISFIED	VERY DISSATISFIED	TOTAL	WEIGHTED AVERAGE
Documentation Quality	9.68% 3	45.16% 14	32.26% 10	6.45% 2	6.45% 2	31	2.55
Documentation Accuracy	19.35% 6	32.26% 10	32.26% 10	12.90% 4	3.23% 1	31	2.48
Appropriateness to your needs	9.68% 3	35.48% 11	45.16% 14	9.68% 3	0.00% 0	31	2.55
Ease of finding required information	16.13% 5	29.03% 9	35.48% 11	9.68% 3	9.68% 3	31	2.68
Ease of understanding the information	12.90% 4	35.48% 11	38.71% 12	9.68% 3	3.23% 1	31	2.55
Layout	12.90% 4	35.48% 11	45.16% 14	3.23% 1	3.23% 1	31	2.48
Search features	20.00% 6	23.33% 7	40.00% 12	13.33% 4	3.33% 1	30	2.57
Overall Documentation	6.67% 2	40.00% 12	40.00% 12	6.67% 2	6.67% 2	30	2.67



## Q27 In terms of content, complete this sentence: "I would like to see": (select all that apply)

Answered: 29   Skipped: 22



ANSWER CHOICES	RESPONSES	
More screenshots	51.72%	15
More videos	41.38%	12
More use cases	62.07%	18
More FAQs	34.48%	10
More troubleshooting tips	58.62%	17
Other (please specify)	17.24%	5
Total Respondents: 29		

**Q28 Please describe one or more Zowe problems encountered whereby the Zowe documentation did not provide sufficient help (type in your response below)**

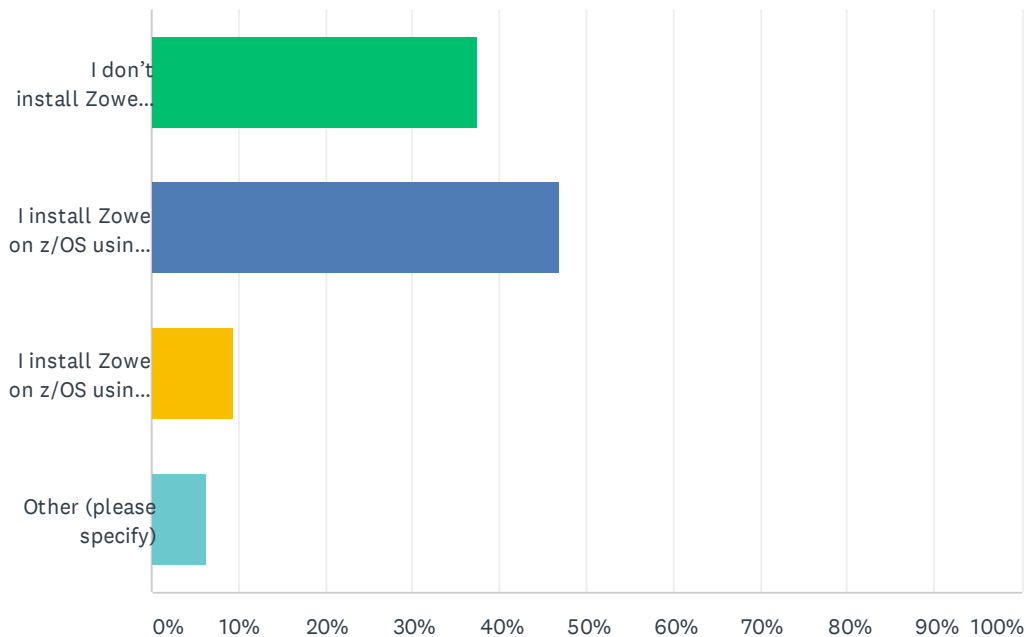
Answered: 13   Skipped: 38

**Q29 What can we do to improve your experience with the Zowe documentation? Please describe specific areas of weakness which have not been covered in prior questions (type in your response below)**

Answered: 14   Skipped: 37

## Q30 Which of the following describes how you consume Zowe releases?

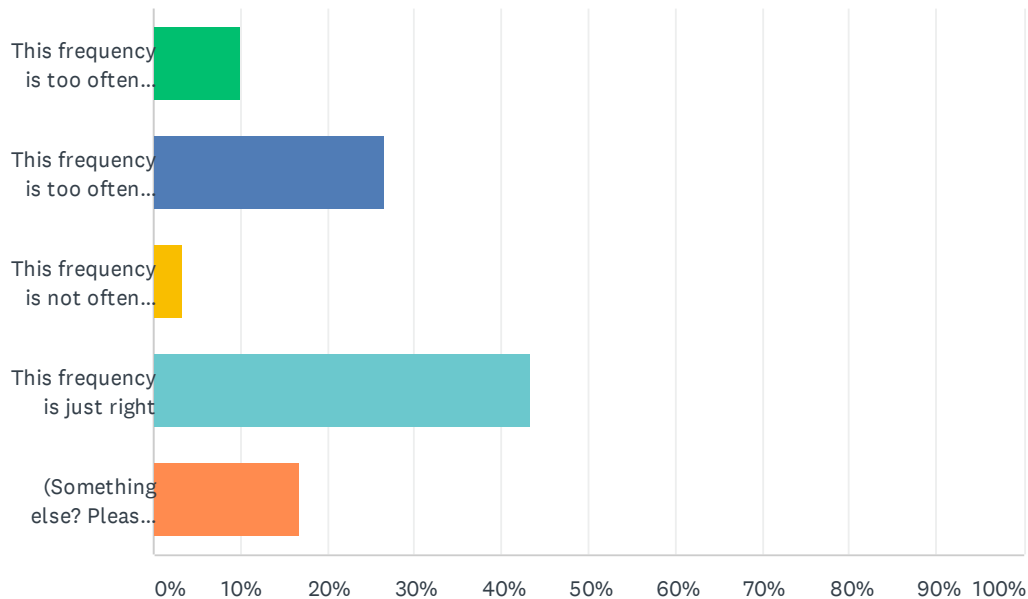
Answered: 32 Skipped: 19



ANSWER CHOICES	RESPONSES	
I don't install Zowe on z/OS	37.50%	12
I install Zowe on z/OS using SMP/E	46.88%	15
I install Zowe on z/OS using the USS .pax file	9.38%	3
Other (please specify)	6.25%	2
TOTAL		32

## Q31 Zowe releases rollup PTF releases on a monthly basis. Which selection describes your opinion of the release frequency?

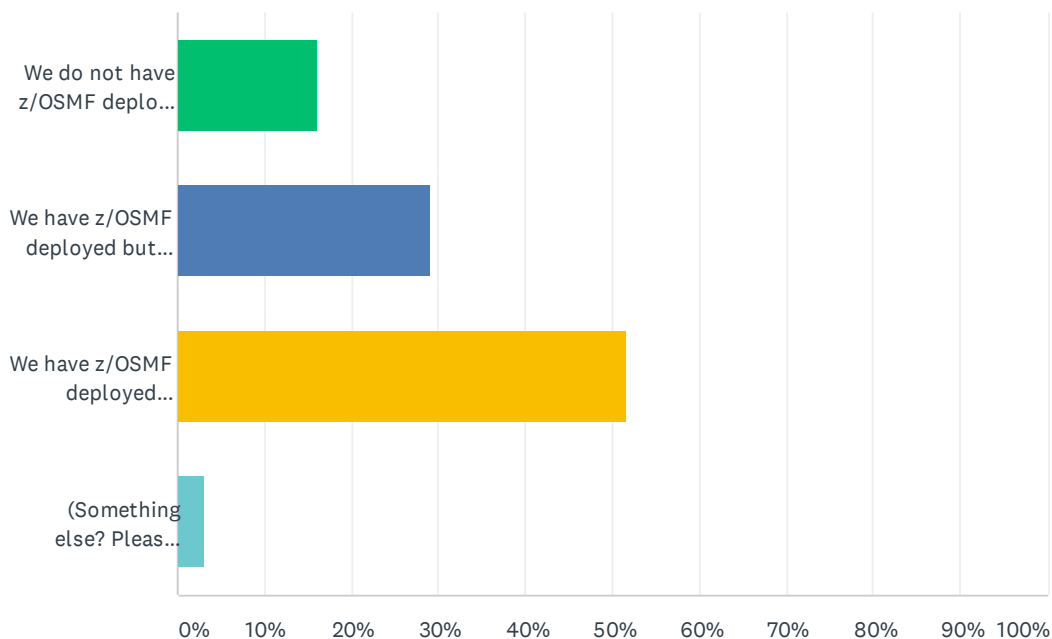
Answered: 30 Skipped: 21



ANSWER CHOICES	RESPONSES	
This frequency is too often and Zowe should release every two months	10.00%	3
This frequency is too often and Zowe should release every three months	26.67%	8
This frequency is not often enough and Zowe should release more often than monthly	3.33%	1
This frequency is just right	43.33%	13
(Something else? Please describe...)	16.67%	5
TOTAL		30

## Q32 Parts of Zowe use z/OSMF. Which selection describes your level of z/OSMF deployment?

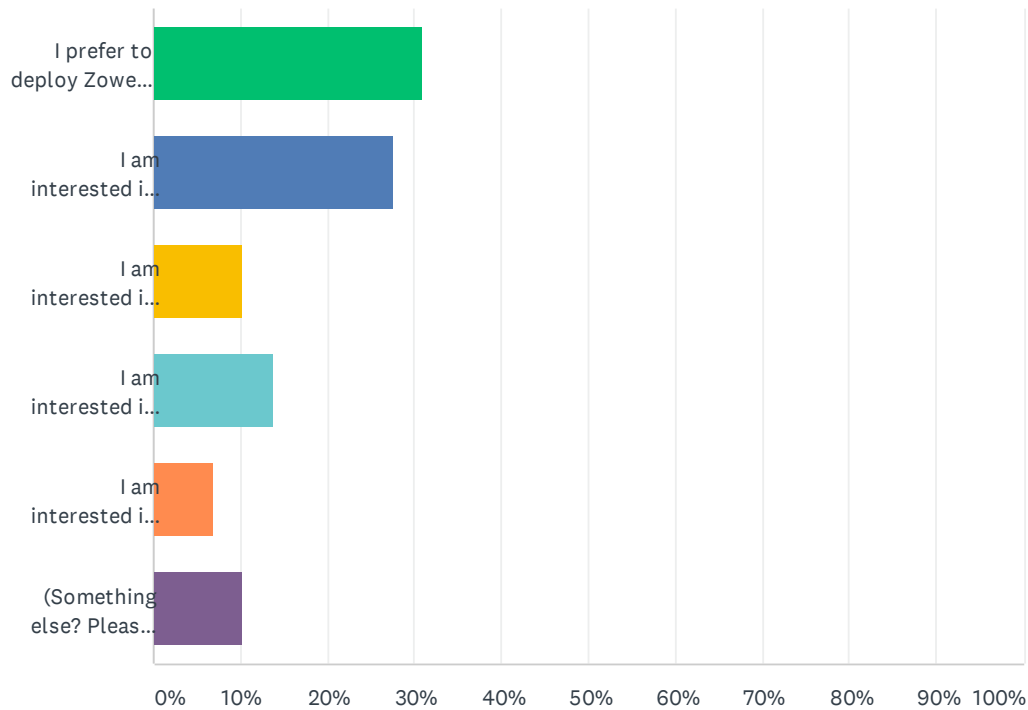
Answered: 31 Skipped: 20



ANSWER CHOICES	RESPONSES	
We do not have z/OSMF deployed	16.13%	5
We have z/OSMF deployed but have not enabled all of the REST API services	29.03%	9
We have z/OSMF deployed including the REST API services for jobs, files, TSO and console used by Zowe	51.61%	16
(Something else? Please describe...)	3.23%	1
TOTAL		31

### Q33 Zowe is moving towards providing parts that run in containers off z/OS. Which selection describes your Zowe deployment preferences?

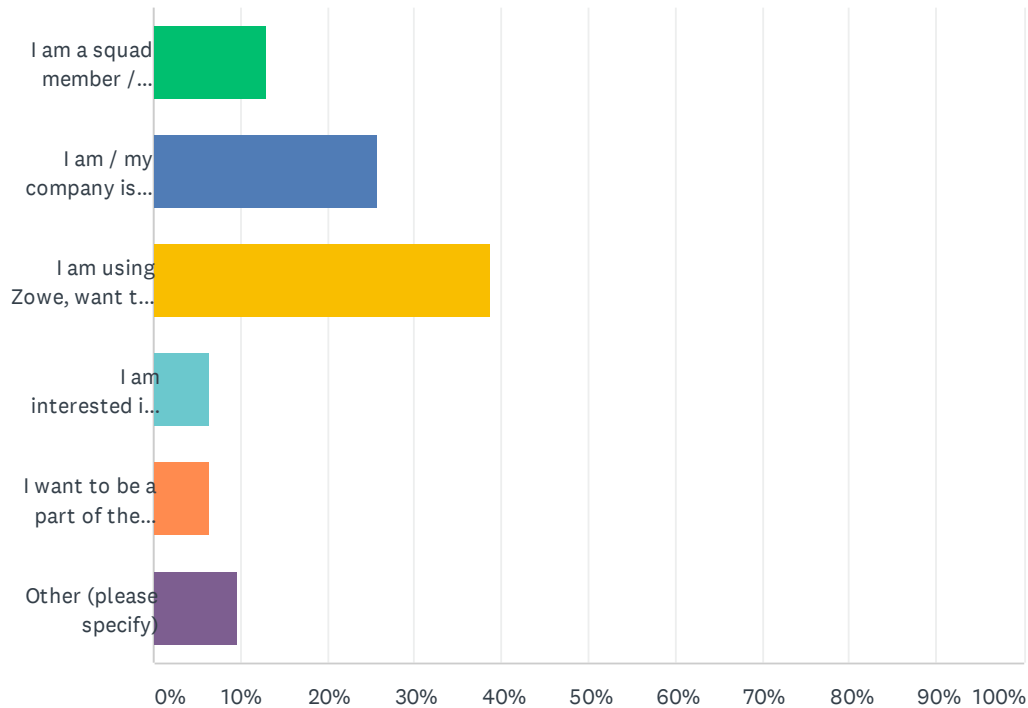
Answered: 29 Skipped: 22



ANSWER CHOICES	RESPONSES	
I prefer to deploy Zowe fully on a single z/OS system, no other z/OS systems or off-z/OS containers are necessary	31.03%	9
I am interested in deploying Zowe onto a Parallel Sysplex with multiple z/OS systems	27.59%	8
I am interested in deploying the USS parts of Zowe onto zLinux	10.34%	3
I am interested in deploying the USS parts of Zowe onto ZCX	13.79%	4
I am interested in deploying the USS parts of Zowe onto an Intel/AMD container off platform	6.90%	2
(Something else? Please describe...)	10.34%	3
TOTAL		29

## Q34 How would you describe your primary reason for visiting Zowe.org?

Answered: 31 Skipped: 20

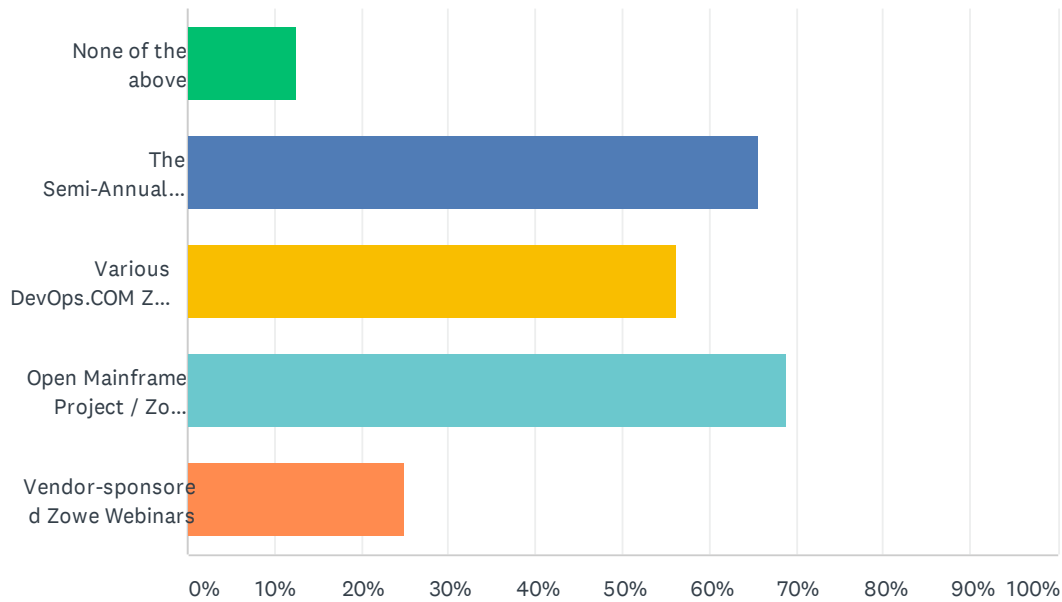


ANSWER CHOICES	RESPONSES	
I am a squad member / consider myself a member of the Zowe community and I access or interact with various Zowe assets regularly	12.90%	4
I am / my company is potentially interested in using Zowe, I want to learn about Zowe	25.81%	8
I am using Zowe, want to gain new insights, read documentation, download, or open an issue etc.	38.71%	12
I am interested in extending (introducing plug-ins etc.) Zowe	6.45%	2
I want to be a part of the Zowe community and contribute to Zowe Core	6.45%	2
Other (please specify)	9.68%	3
<b>TOTAL</b>		<b>31</b>



## Q35 Which of the following Zowe-featured events are you likely to attend? (Check all that apply)

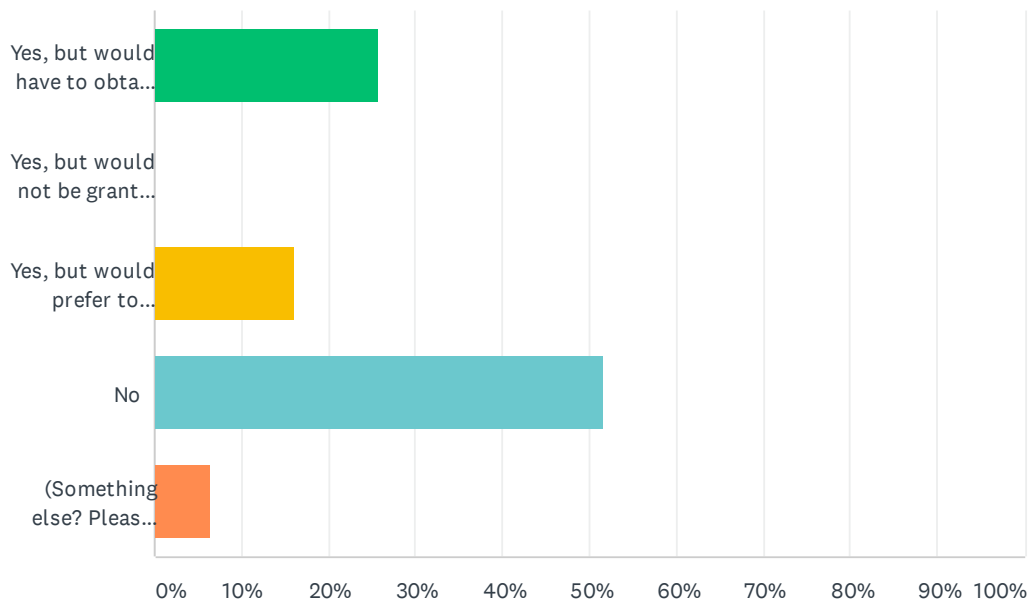
Answered: 32 Skipped: 19



ANSWER CHOICES	RESPONSES	
None of the above	12.50%	4
The Semi-Annual (SPRING or FALL) SHARE CONFERENCE Zowe Sessions (currently virtual)	65.63%	21
Various DevOps.COM Zowe Webinars	56.25%	18
Open Mainframe Project / Zowe Community Quarterly Update Webinar or other OMP Zowe Webinars	68.75%	22
Vendor-sponsored Zowe Webinars	25.00%	8
Total Respondents: 32		

## Q36 Would you be interested (and permitted) in sharing your experience with Zowe by speaking at one of the Zowe events mentioned in the prior question?

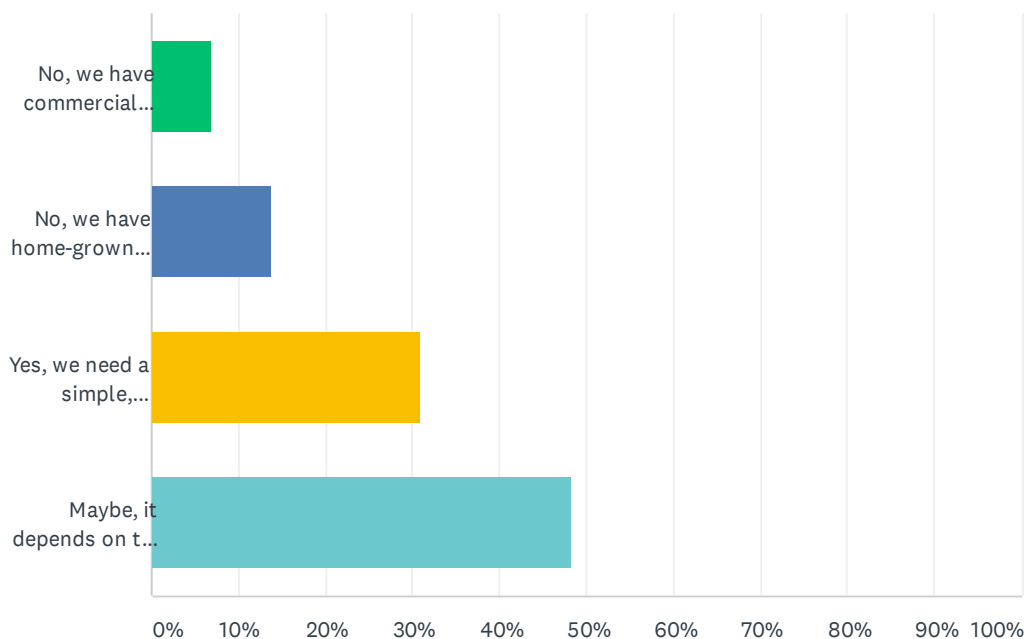
Answered: 31 Skipped: 20



ANSWER CHOICES	RESPONSES	
Yes, but would have to obtain permission	25.81%	8
Yes, but would not be granted permission	0.00%	0
Yes, but would prefer to co-present with someone	16.13%	5
No	51.61%	16
(Something else? Please describe...)	6.45%	2
TOTAL		31

Q37 The Zowe community recently introduced an incubator project (code name Zebra). This project is intended to provide open source components (via REST and open-source tooling) for the collection, organization, and visualization of RMF/SMF system z (z/OS) metrics. Would you / your organization be interested in consuming the Zebra components?

Answered: 29 Skipped: 22



ANSWER CHOICES	RESPONSES	
No, we have commercial tools for collecting and displaying the z/OS metrics	6.90%	2
No, we have home-grown tools for SMF/RMF data and they are sufficient	13.79%	4
Yes, we need a simple, consistent way to collect and display the z/OS metrics	31.03%	9
Maybe, it depends on the capabilities – we would need more information	48.28%	14
TOTAL		29

## Q38 What did we miss? (Your chance to offer ANY feedback about Zowe)

Answered: 10   Skipped: 41