

Kubernetes jobs

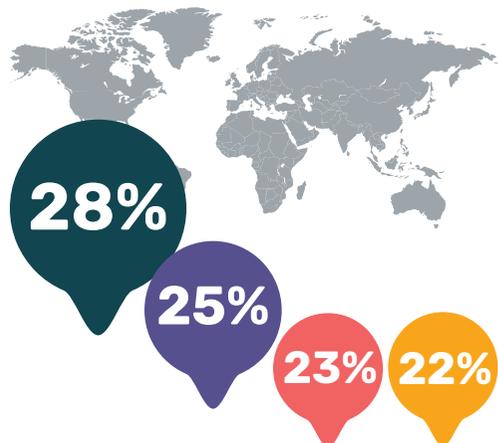
Trend report 2022 Q2

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Where are the most Kubernetes job offers located?

➤ In North America.



At least, this seems to be the case for this quarter.

All the regions have good representation, with **North America** taking the lead with almost **28%** of the Kubernetes jobs.

Europe isn't far away with **25%**, while remote only jobs represent **23%** of the jobs.

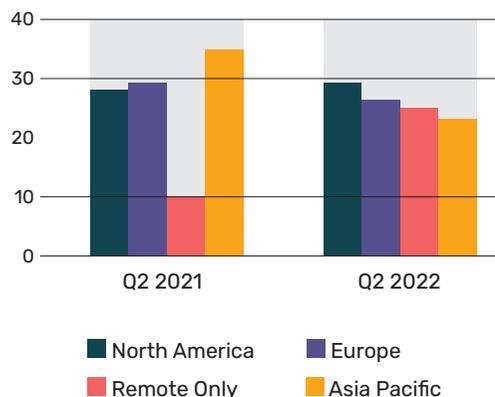
The Asia-Pacific region comes in at last, with **22%** of the Kubernetes jobs published in this region.

➤ Are most of the job offers always from North America?

Not entirely.

1. In **Q2 2021**, the Asia Pacific region leads the charts with **35%**, Europe with **29%**, and North America with almost **26%** of the Kubernetes jobs.
2. In our previous quarterly reports, Europe, North America, and Asia-Pacific have traded the top spot alternatively.

Top Kubernetes job locations (Q2 2021 vs Q2 2022)



Note: COVID-19 restrictions were lifted at different timelines with different regions, so do take these metrics with a grain of salt.

➤ What about remote jobs?

Currently, the remote jobs scenario looks highly positive.

This quarter, more than **64%** of the jobs that we have listed mentioned remote-work of some sort.

This metric is up from **55%** in Q2 2021 and from **56%** in Q1 2022.

Note that **remote-work** mentions don't translate to *worldwide - work from anywhere jobs*.

➤ There exist different tiers of remote work.

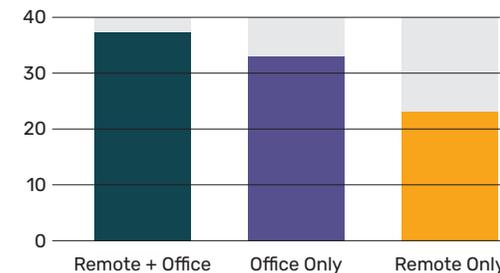
Of the jobs that mention remote working, more than **67%** of these offer a hybrid working model, which can mean anything from attending a few days of office per week to working in one of the co-working spaces provided by the company.

Also, this quarter, we had **37%** (of the total jobs that mention remote work) of the jobs offering remote only work, which means the candidate can work from their place of ease, 100% remote.

➤ What's the overall trend for remote jobs?

*In Q2 2021, only **19%** of the jobs were remote only, and that too at a time when the COVID-19 restrictions weren't completely lifted in some parts of the world.*

Remote vs Office

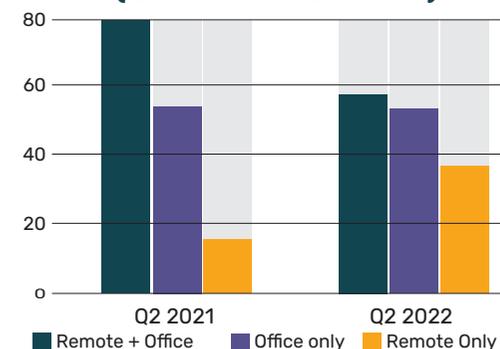


Remote work mentions



Remote vs Office

(Q2 2021 vs Q2 2022)



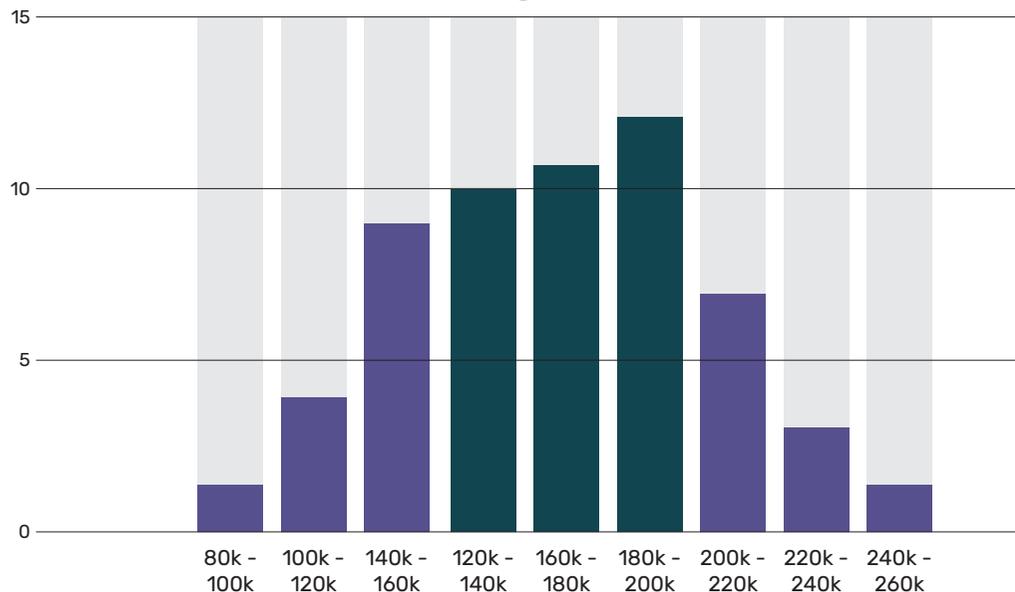
What's the salary range?

We have divided the salary ranges into two categories:

- 1 North American Kubernetes jobs (normalized to be in USD), and
- 2 European Kubernetes jobs (normalized to be in EUR).

➤ Salary ranges for Kubernetes jobs in North America

Salary ranges (in USD)



The minimum salary offered in America, on average, stands at **\$143,684**, while the maximum salary (on average) offered stands at **\$186,211**.

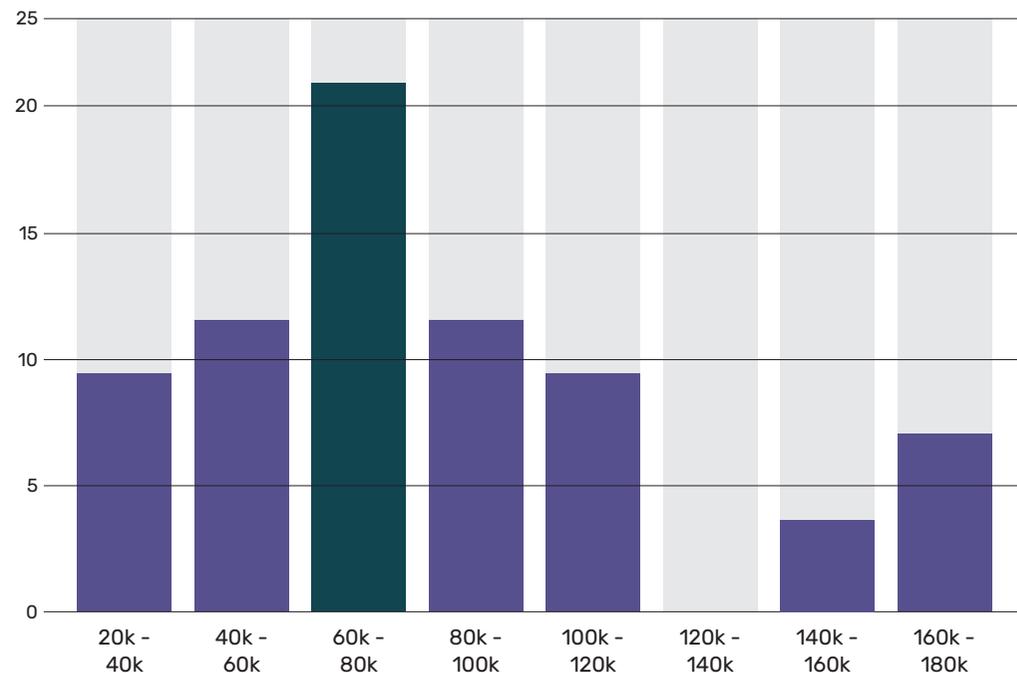
The minimum average salary has increased by almost **12%**, and the maximum average salary has increased **7%** over Q2 of 2021, which is a positive sign.

The highest salary range for Q2 2022 is between **\$200,000-240,000**, which is also an **8%** increase over the highest salary range for Q2 2021.

200k
240k

➤ Salary ranges for Kubernetes jobs in Europe

Salary ranges (in Euros)



Minimum Salary

€83,722

The *minimum* salary offered in Europe, on average, stands at **€83,722**, while the *maximum* salary (on average) offered stands at **€170,380**.

We have recently started analysing the salary ranges for Europe and America differently, so we can't compare these numbers with Q2 2021.

However, the minimum salary range has increased almost **5%** over the last quarter, i.e., Q1 2022, which is encouraging.

Maximum Salary

€170,380

Note: Europe is a vast, diverse continent with varied costs of living, economies, and technological status.

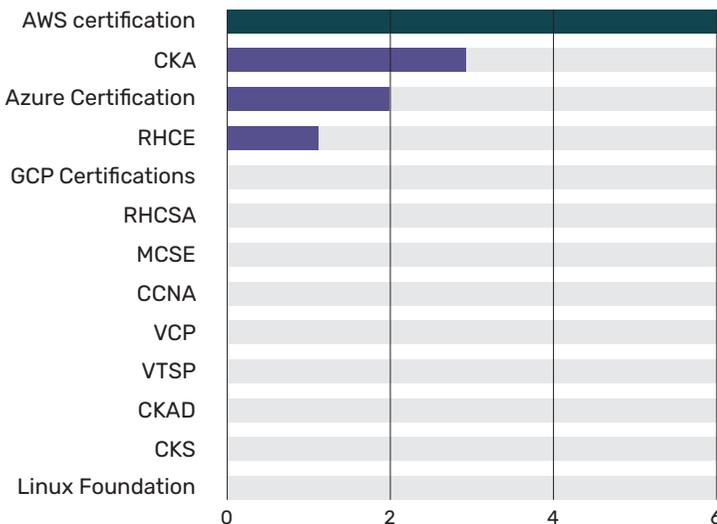
Thus, we can't be conclusive with these numbers, but we can get a decent representation of the state of salaries in Europe.

Are certifications necessary for getting a Kubernetes job?

So, which of the more popular certifications should you consider completing?

AWS certifications are the most popular certifications mentioned in a Kubernetes job description.

Popular Certifications



This has been the trend in almost all of our quarterly reports.

Of all the job descriptions that mentioned certifications this quarter, more than **60%** of these explicitly mentioned AWS certifications as a requirement.

Meanwhile, **CKA, Azure, and RHCE** certifications represented 30%, 20%, and 10% of the certification mentions.

Thus, if you were to complete just one certification for landing your next Kubernetes job, you know which one to go for.

What's the trend for Kubernetes certifications for Q2 2022?

Kubernetes certifications are often listed in job descriptions as a plus and not a requirement.

A staggering **96%** of the jobs that we published this quarter did not mention a requirement for a Kubernetes certification.

This points to companies looking for Kubernetes environment experience over just certifications.

Of the 4% of jobs that mentioned Kubernetes certification as a requirement, the **Certified Kubernetes Administrator (CKA)** was mentioned the most in job descriptions.

Note: Do remember that only **3** job listings published in the entire quarter mentioned CKA certifications.

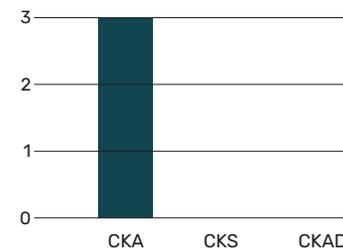
Since the sample size is small, we shouldn't derive any conclusions about the popularity of the Kubernetes certifications.

What about the cloud provider certifications?

As for the Cloud provider certifications, **AWS** dominates the chart, with Azure a distant second and GCP garnering no mentions this quarter.

For Q2 2021, **AWS** also managed to top the list with the most mentions.

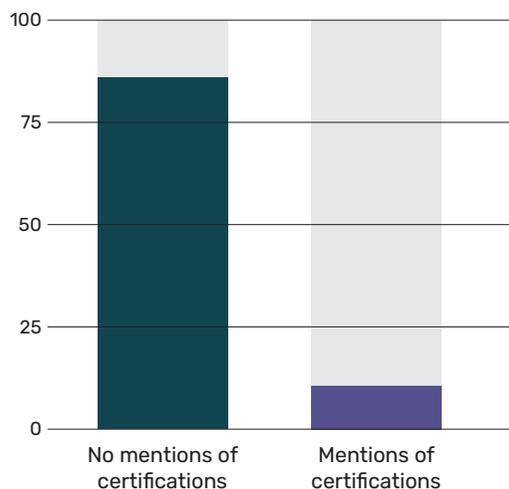
Kubernetes Certifications popularity



Popular cloud providers



Certifications mentions



88%

The case with certifications is this: **very few mentions but always seen as an advantage.**

For Q2 2022, there were only **11%** job descriptions that mentioned a need for certification.

This is an improvement over Q2 2021, where a measly **5%** of the job listings mentioned a requirement for certification.

How relevant are CI/CD skills for Kubernetes jobs?

CI/CD methodologies are essential for Kubernetes jobs.

50% 50% 50%

Almost 50% of the job descriptions in this quarter mentioned CI/CD.

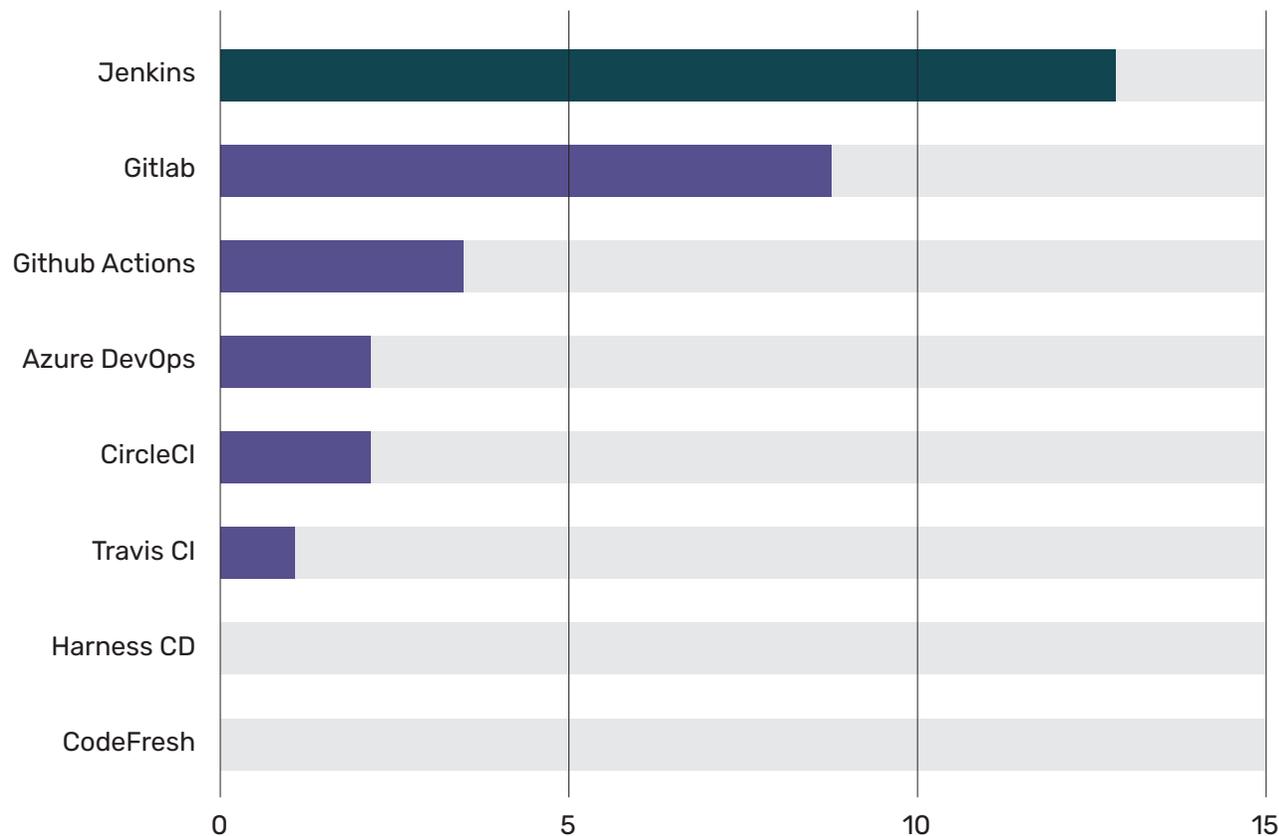
89% 89% 89%

What's also interesting to know is that of the jobs that mention CI/CD, more than 89% of these did not specify the methodology and just mentioned the term.

➤ What about the ones that do specify the methodologies?

Considering all the jobs that did specify the CI/CD methodologies, **Jenkins** was the most popular with more than 43% mentions, with *Gitlab* and *Github Actions* coming in at the 2nd and 3rd place with 30% and 14% representation.

Popularity CI/CD tools



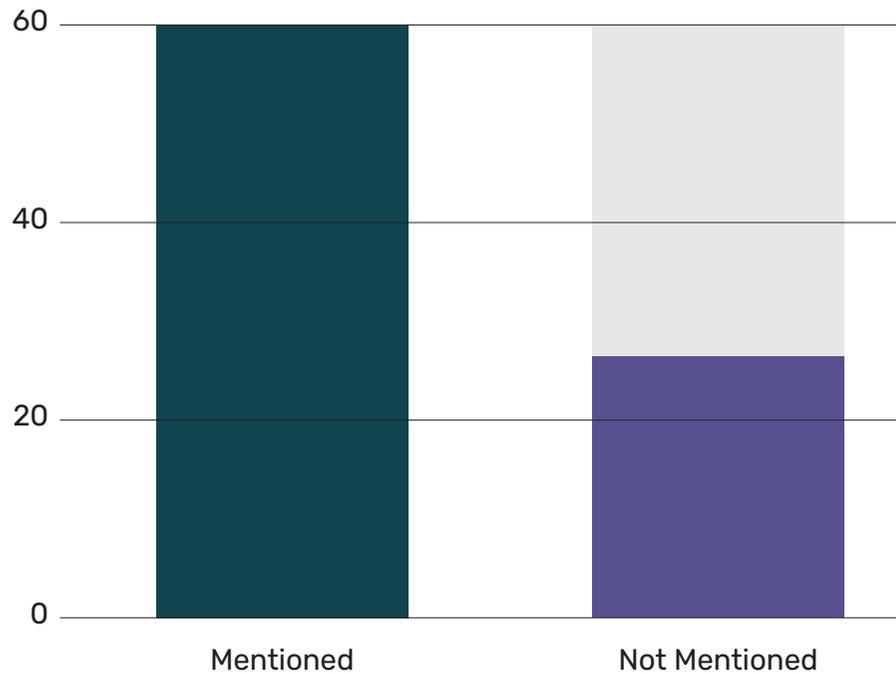
How important are configuration management tools for a Kubernetes job?

Configuration management tools are highly relevant.

This quarter, more than **62%** of the jobs mentioned some configuration management tool.

This stat is up 5% quarter-on-quarter.

Configuration management tool mentions



➤ Of all configuration management tools, which one should you learn?

Terraform.

Of all the job descriptions that mentioned configuration management tools, Terraform was specified in a staggering **82%** of these.

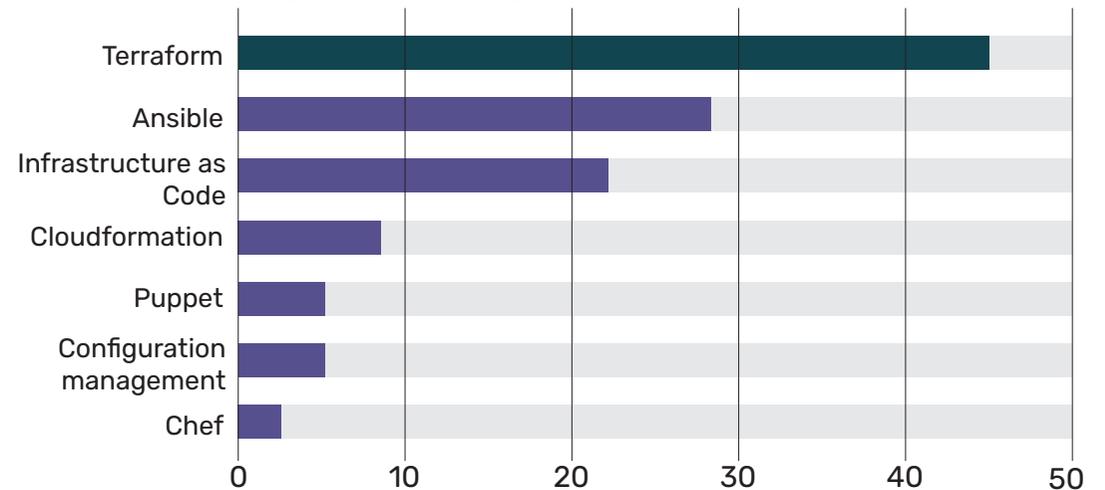
Terraform also topped the charts for Q2 of 2021.

Ansible is in second place, while the generic term "Infrastructure as Code (IAC)" comes at third place with **44%** and **41%** representation.

It can be said that:

1. Configuration management tool skills are in high demand.
2. If you are to learn/gain experience in one such tool, choose Terraform.

Configuration management tool popularity



How much experience do companies seek?

It varies, but surprisingly, experience isn't mentioned explicitly.

In this quarter, more than **76%** of the jobs didn't mention experience.

This has been the case in the last four quarters.

Wherein there isn't an explicit mention of experience in most job listings.

➤ Of the ones that mentioned experience, what seniority are they after?

This quarter, of the job listings that mentioned experience, more than **90%** of these required senior-level experience (4-6 years).

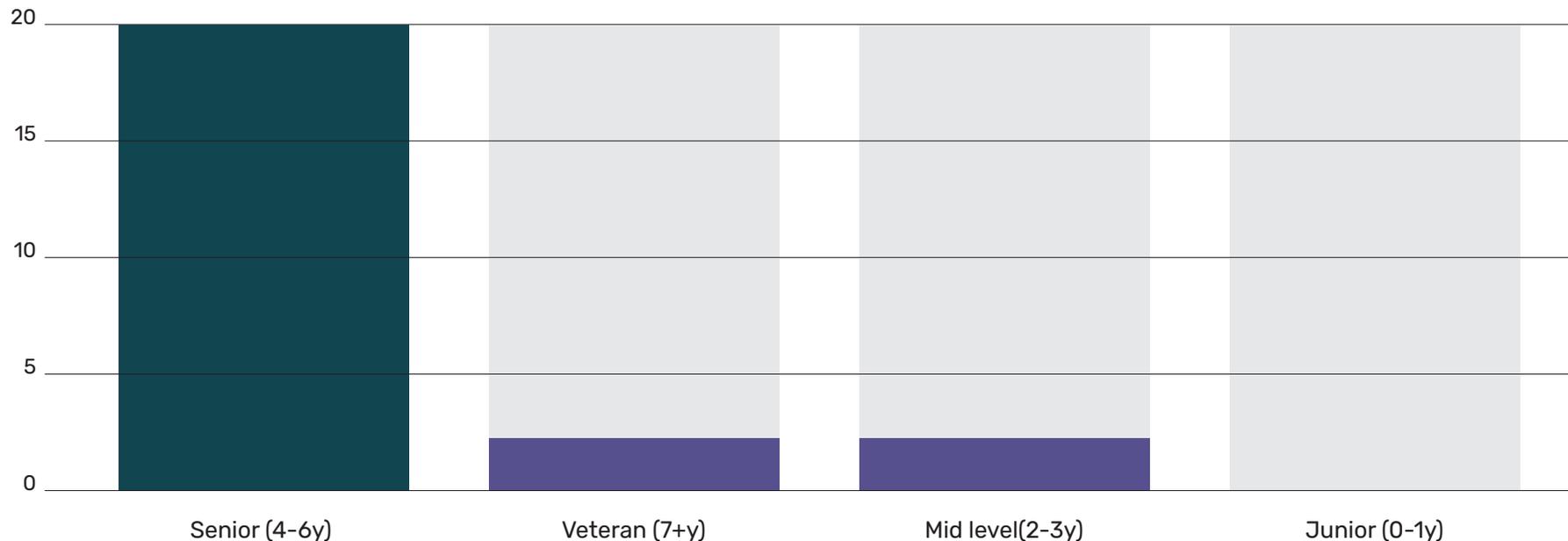
The senior-level experience was also the most sought-after in Q2 of 2021.

Also, **Mid-level(2-3 years)**, and **Veteran(7+ years)** levels of experience, were each mentioned in 4% of the jobs this quarter.

As in Q2 of 2021, no job description mentioned a **Junior level(0-1 years)** of experience.

Remember, we are talking about explicit mentions of a Junior position here.

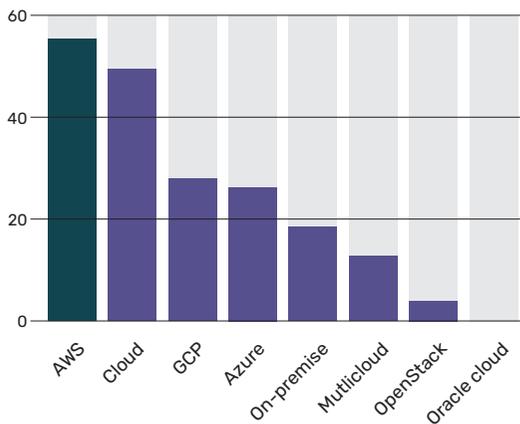
Work Experience preference



Where do companies host their clusters?

Almost **90%** of the job listings did mention their infrastructure location, but that doesn't mean there were absolute specifics.

For instance, this quarter, almost **65%** of the listings mentioned just the term **cloud** as their infrastructure location.



And for the ones that mentioned specifics, **AWS** was mentioned more than **70%** of the time.

Meanwhile, **Azure** and **GCP** were mentioned at **38%** and **31%** this quarter.

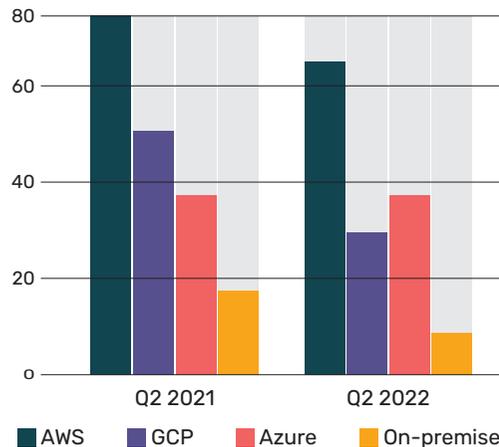
Azure and GCP have been trading 3rd and 4th positions in almost all of the last 4-5 quarters.

➤ Has the trend been the same over the quarters?

Almost

In Q2 of 2021, the order was the same **AWS > GCP > Azure > On-premises**.

Top cloud providers (Q1 2021 vs Q2 2022)



Conclusions from this analysis are:

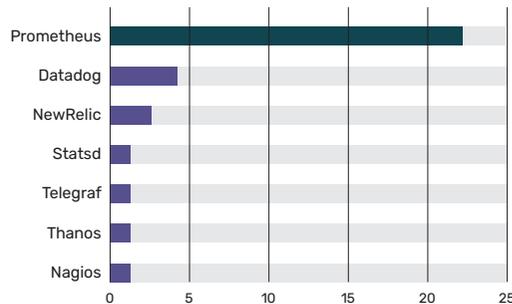
1. AWS is the undisputed champion regarding the preferred infrastructure location.
2. Azure and GCP are the next most preferred infrastructure locations.
3. On-premise infrastructure location has been consistent throughout the quarter. It has been floating between the 15-20% range.

➤ Which monitoring stack tool is popular?

In our dataset, only **24%** of the job listings mentioned a monitoring tool experience.

This metric is up from **15%** in Q2 of 2021.

Monitoring tools popularity

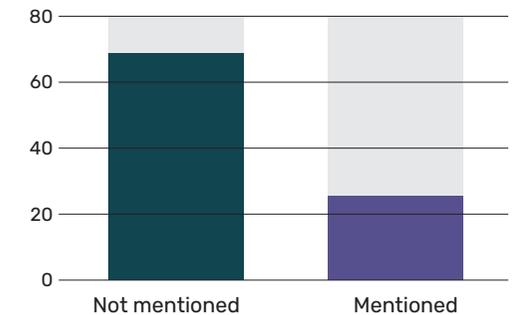


And, between the job listings that mentioned monitoring tools, **Prometheus** leads the way with almost **95%** representation.

The same has been the case in the last four quarters, wherein Prometheus was mentioned in almost all the listings that cited a monitoring tool experience.

Datadog comes in a distant second. Followed by **NewRelic**, **Thanos**, **Nagios**, and **Icinga**.

Monitoring tool experience mentions



➤ Call me, maybe?!

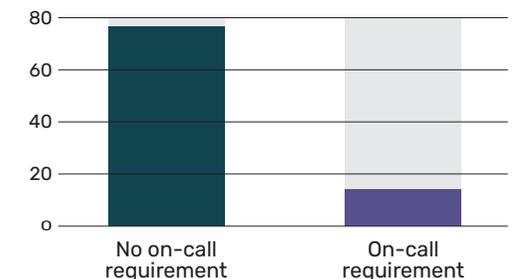
Let's face it. No one likes to be on-call rotation.

But there are times when you are needed to be on-call.

Well, thankfully, not a lot of jobs mention an **on-call** requirement.

This quarter, only **15%** of the job listings mentioned on-call rotation, which increased from **6%** in Q2 2021.

On-call requirement



Which popular technologies other than Kubernetes should you learn?

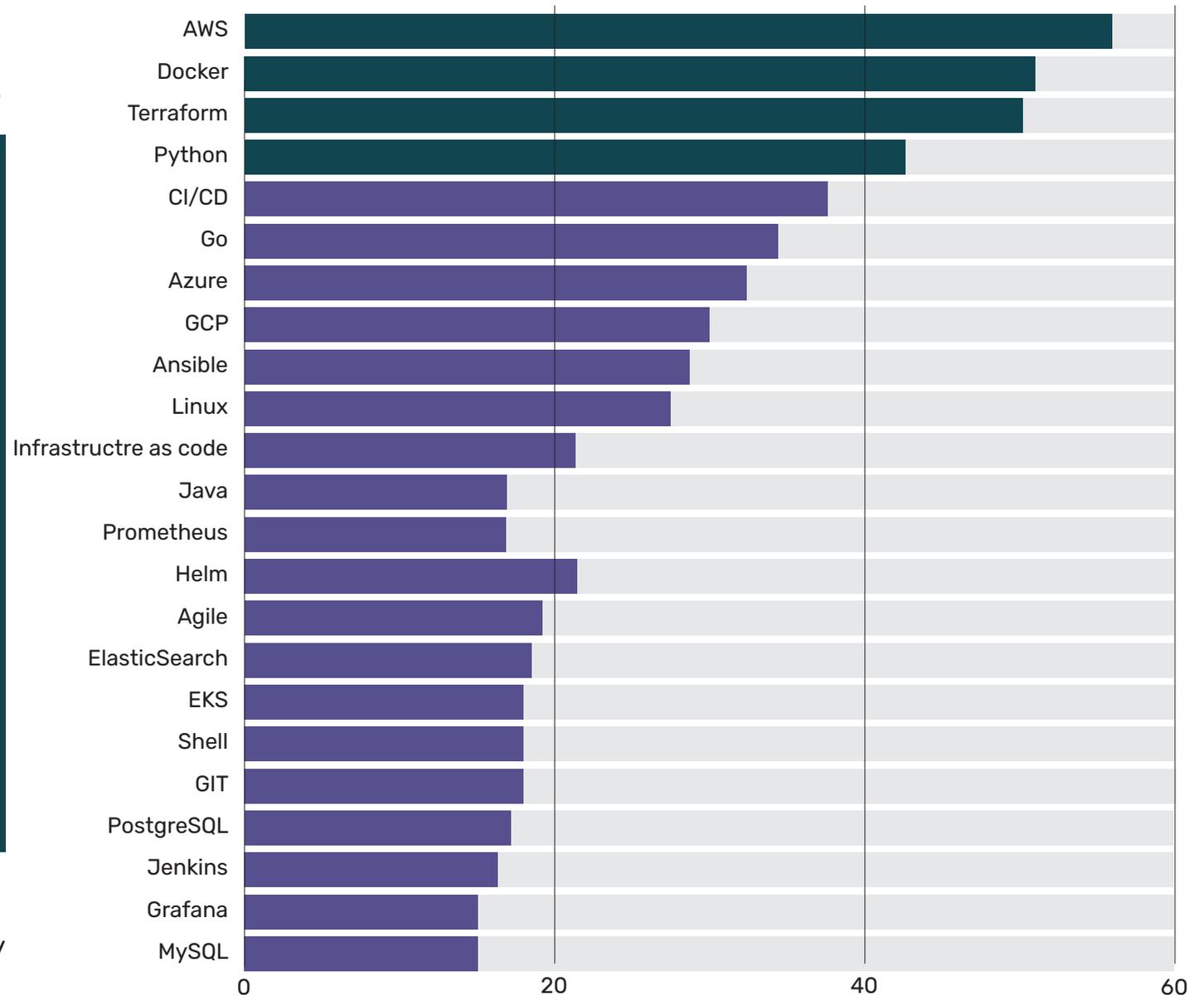
The following list is an excellent guide for engineers seeking to round out their skill set.

The most popular choices of technology among Kubernetes engineers are:

- ✓ Programming languages: **Python, Go, and Java.**
- ✓ Cloud platforms: **AWS, GCP, and Azure** (in that order).
- ✓ Operating systems: **Linux.**
- ✓ Infrastructure as Code: **Terraform.**
- ✓ Database management: **PostgreSQL.**
- ✓ Configuration management: **Ansible.**
- ✓ CI/CD: **Jenkins.**

It's essential to notice that if you already master **Python** and **AWS**, you can confidently apply for more than **60%** of job offers.

Popular technologies



Which programming languages are the most in-demand?

Almost **74%** of the job listings this quarter mentioned at least one programming language, quarter-on-quarter, this has dropped **4%**.

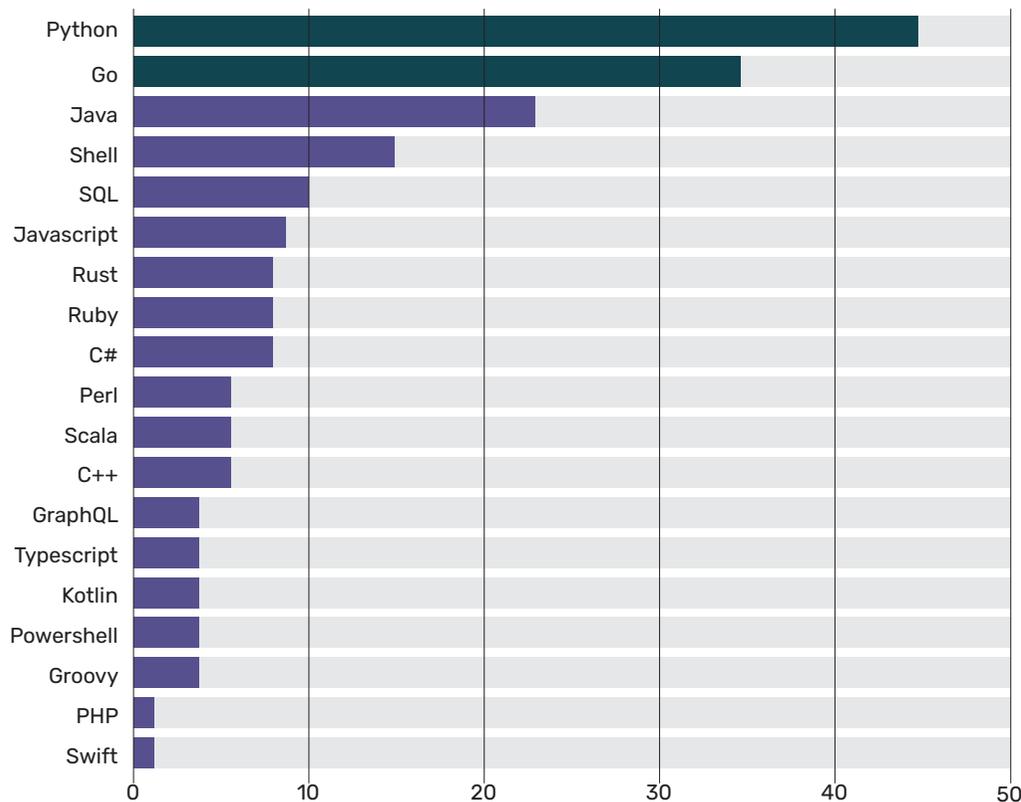
Here are the takeaways from our Programming languages analysis:

Python is the undisputed programming language king. It has topped all of the quarterly charts we have published.

Go is a close second in demand, and it has also been reflected in the last four quarters that we analysed.

Other important programming languages are: **Java, Shell, Javascript, Rust, Ruby**

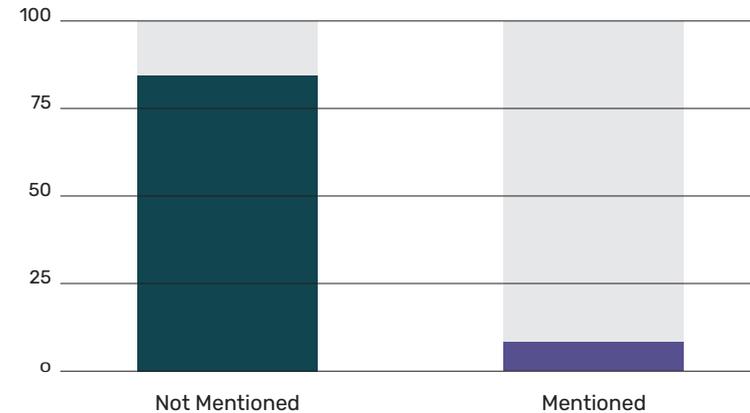
Popular programming languages



Service meshes, anyone?

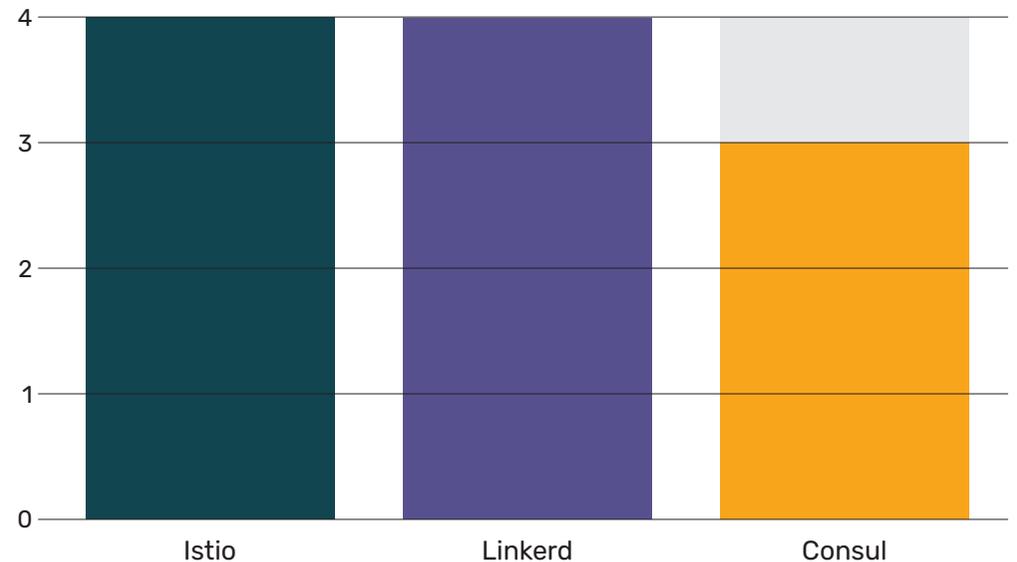
Only **8%** of the jobs cited a requirement for service meshes.

Service mesh mentions



Of these, **Istio** and **Linkerd** garnered four mentions each this quarter, with **Consul** being mentioned in 3 job listings.

Service mesh popularity



Final Remarks

Hopefully, you learned something new from our report.

Every quarter, we try our best to analyse our data so you can derive critical patterns regarding technologies/skills in the current Kubernetes job market.

Did you like what you read?

Would you like us to include a new category?

Let us know!