

OpenStack User Survey and Feedback

Survey data gathered by T. Bell, T. Fifield, R. Lane, J.C. Martin

13th May 2014

AGENDA

- Survey
- Feedback and Comments
- Ongoing Activities
- How to Get Involved

- What was new ?
 - How do you consume OpenStack ?
 - Support multiple entries for different clouds (dev/QA/prod)
 - Additional input for comments

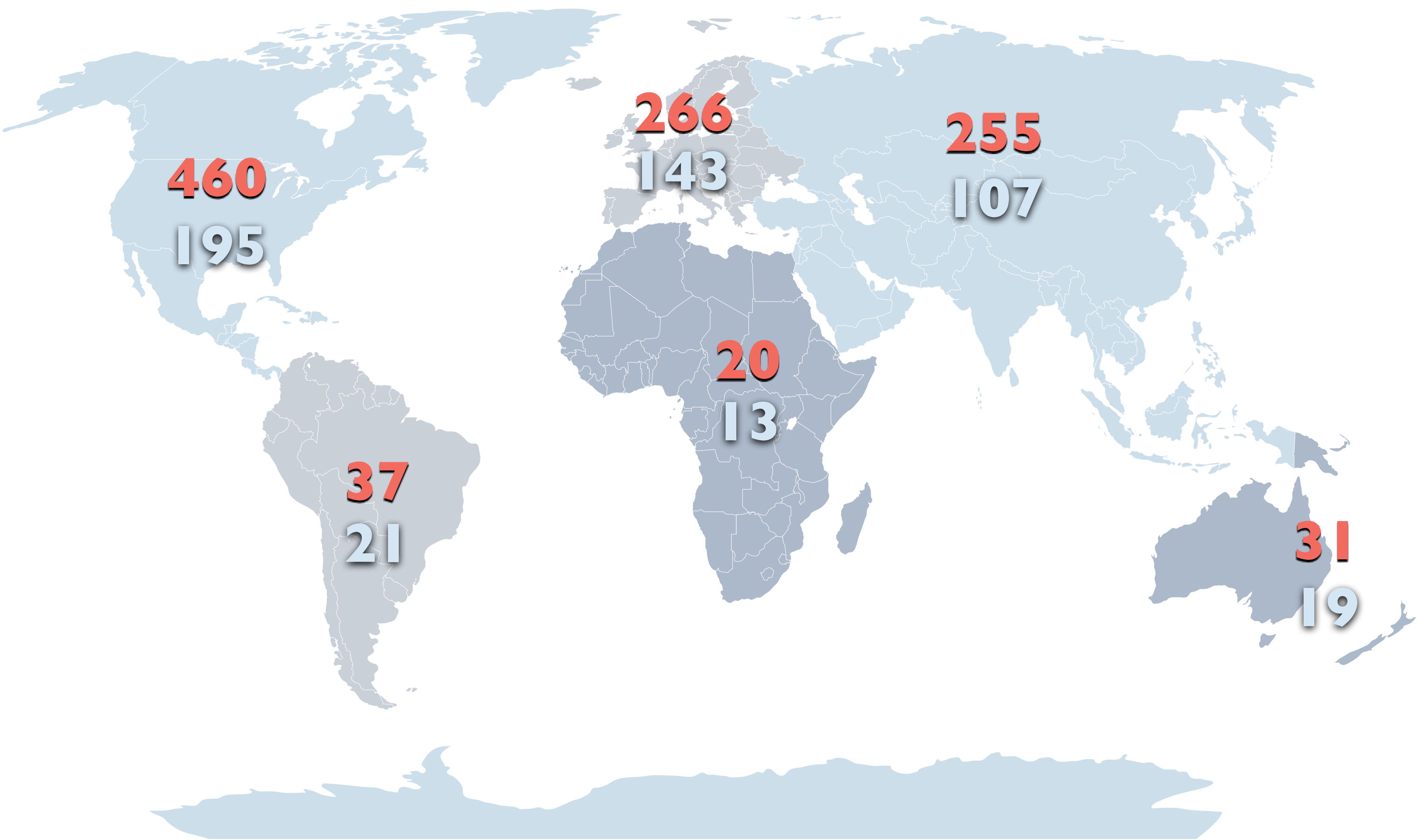
DEPLOYMENT SURVEY

1780 Survey Responses

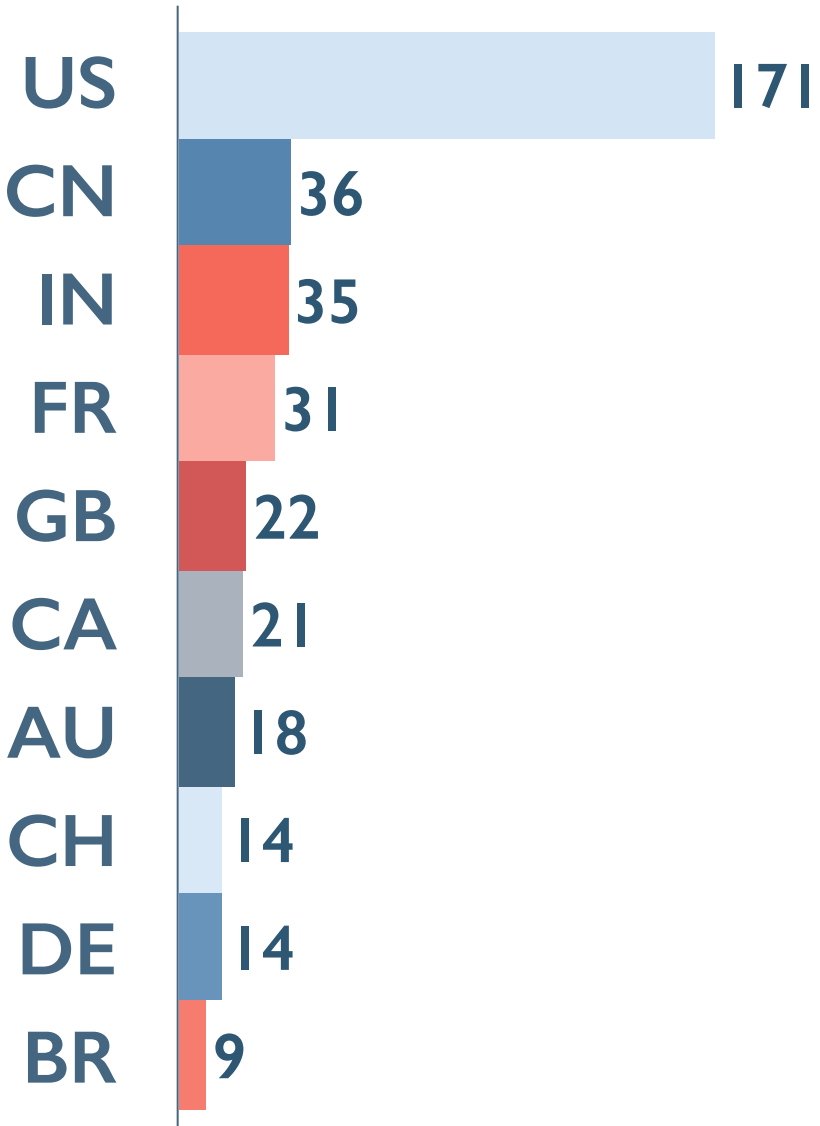
506 Deployments

512 Companies

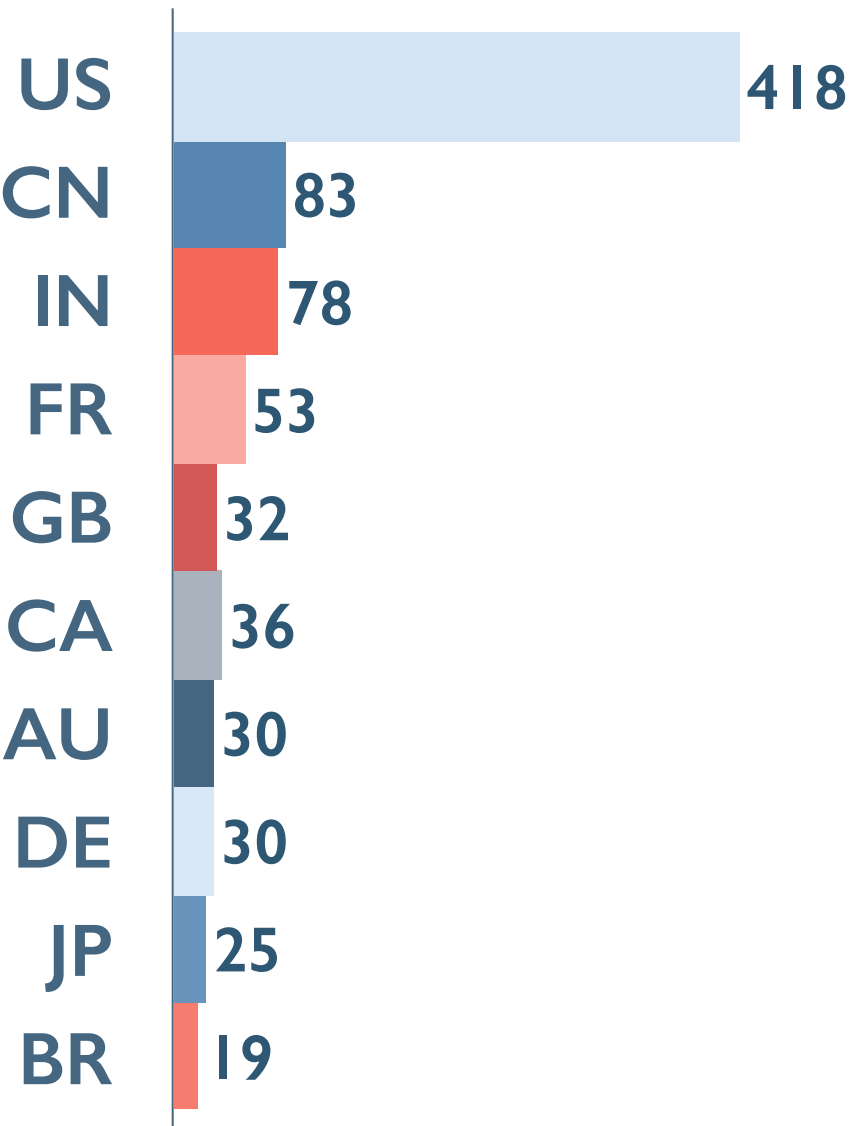
293 UG Members



Top 10 Countries (deployments)

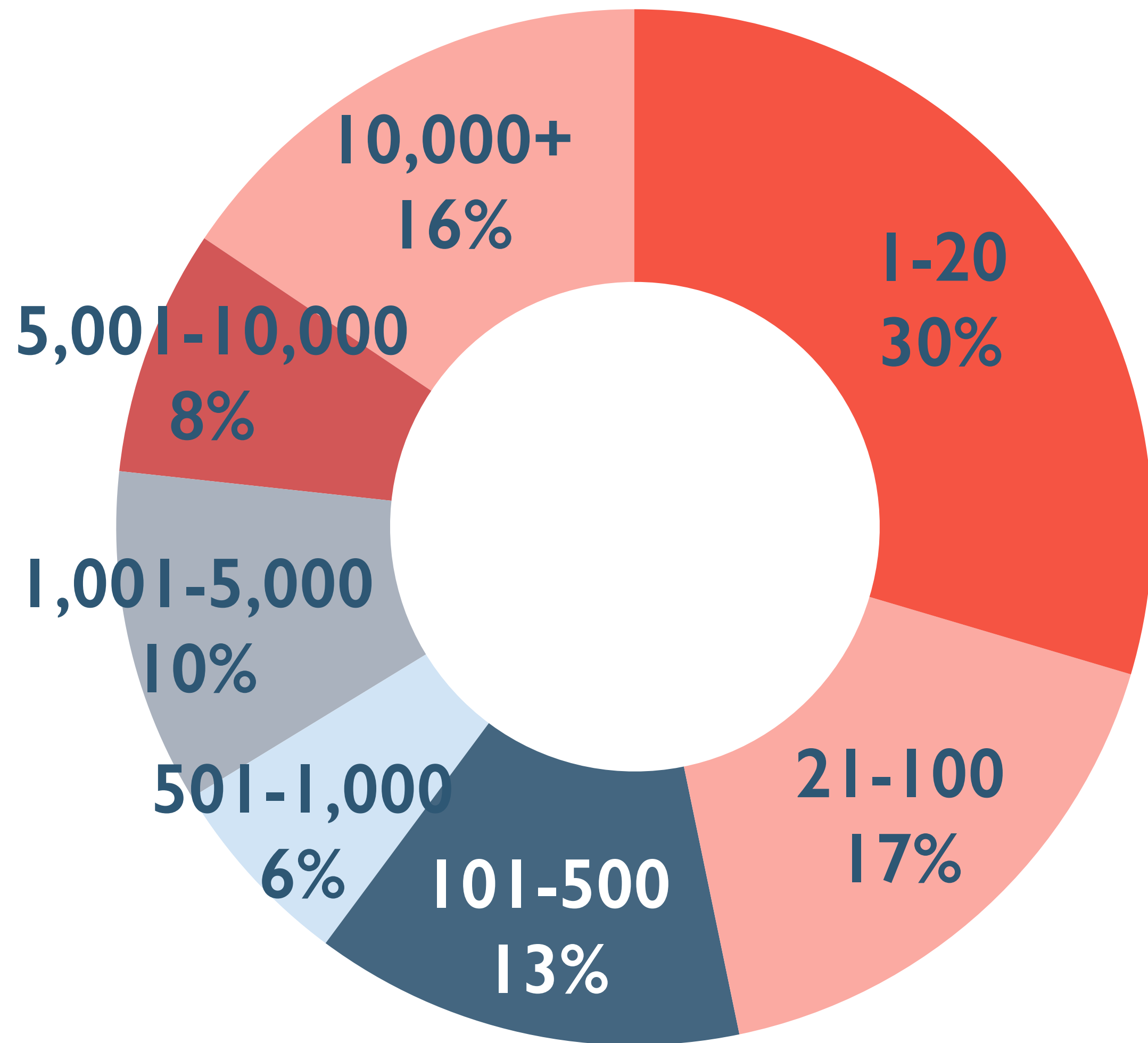


Top 10 Countries (all)

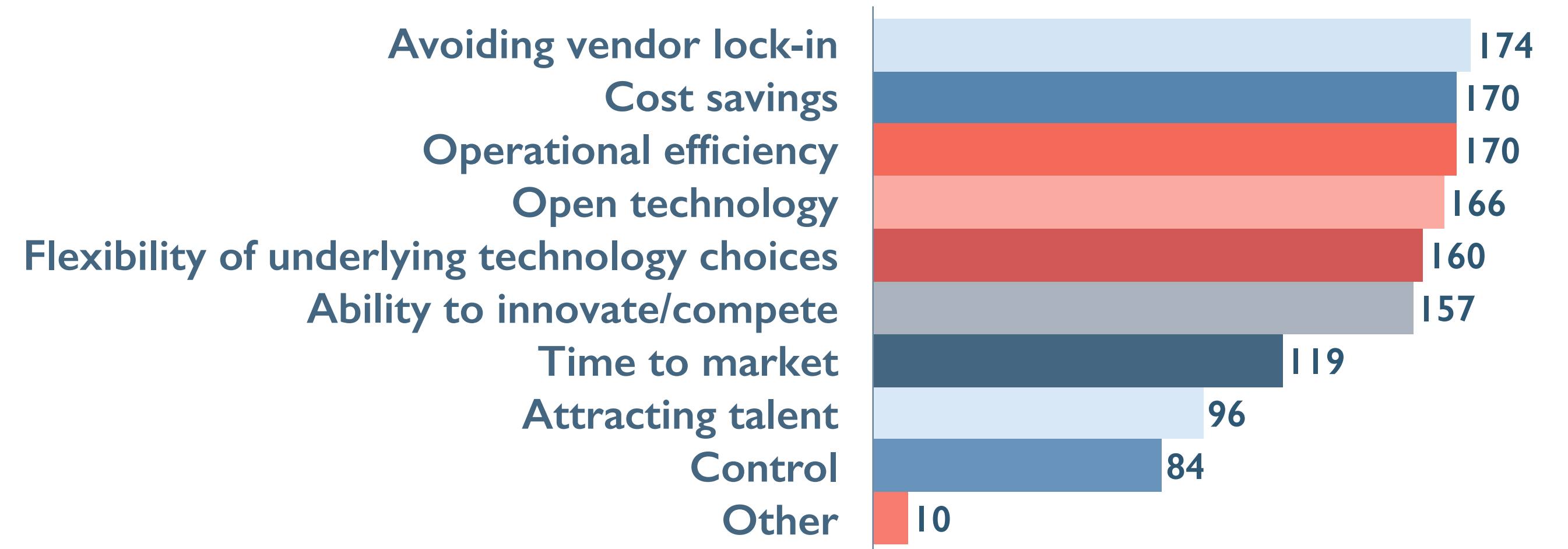


DEPLOYMENT SURVEY

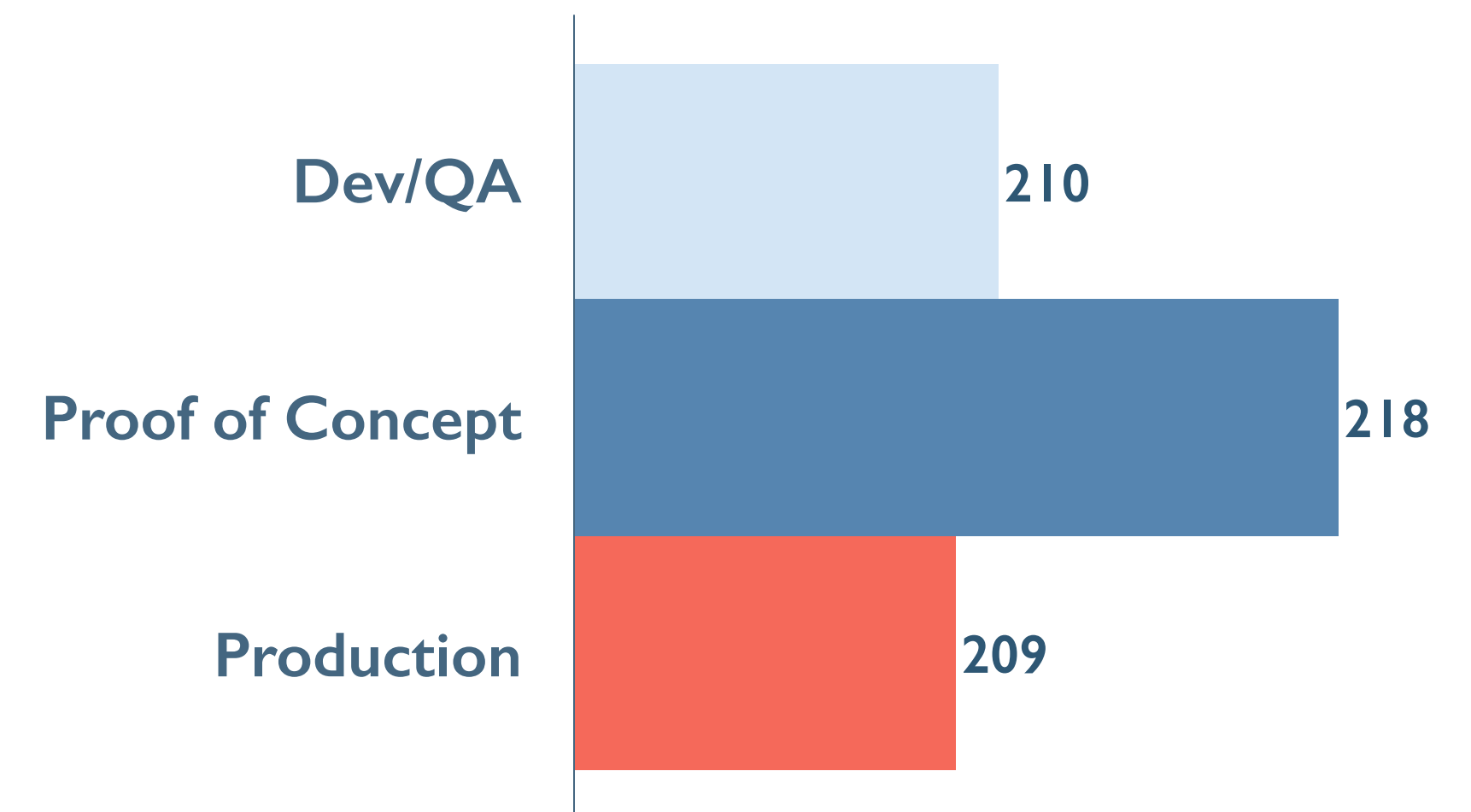
Organization Size (employees)



Business Drivers

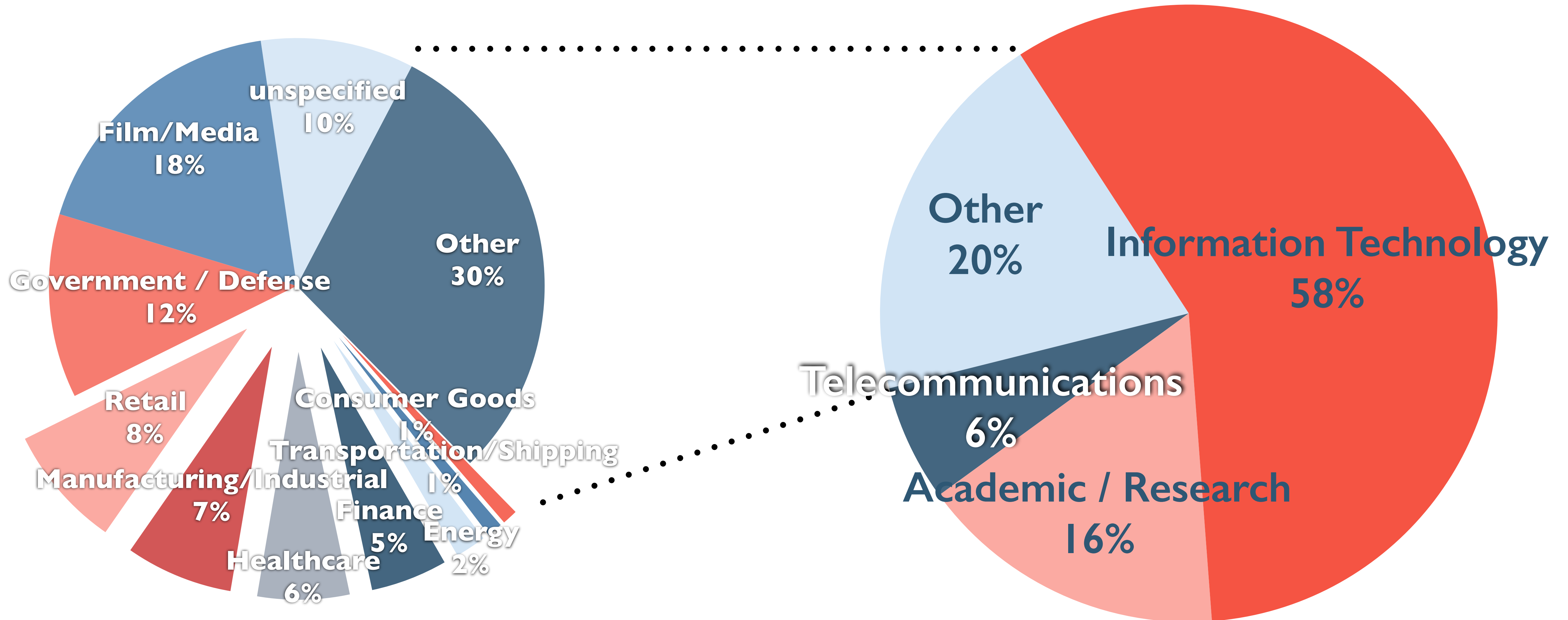


Stage of Deployment



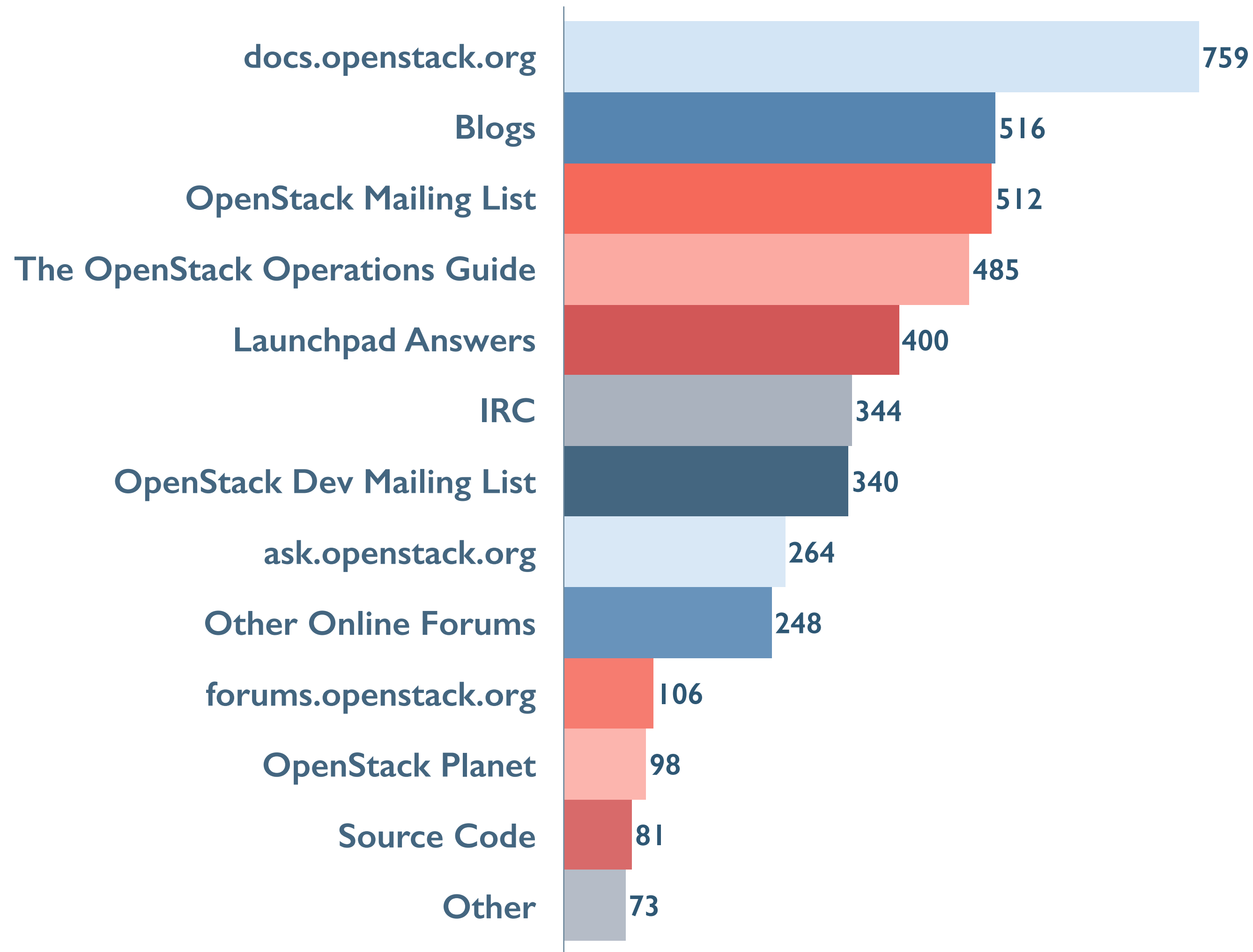
DEPLOYMENT SURVEY

Industry

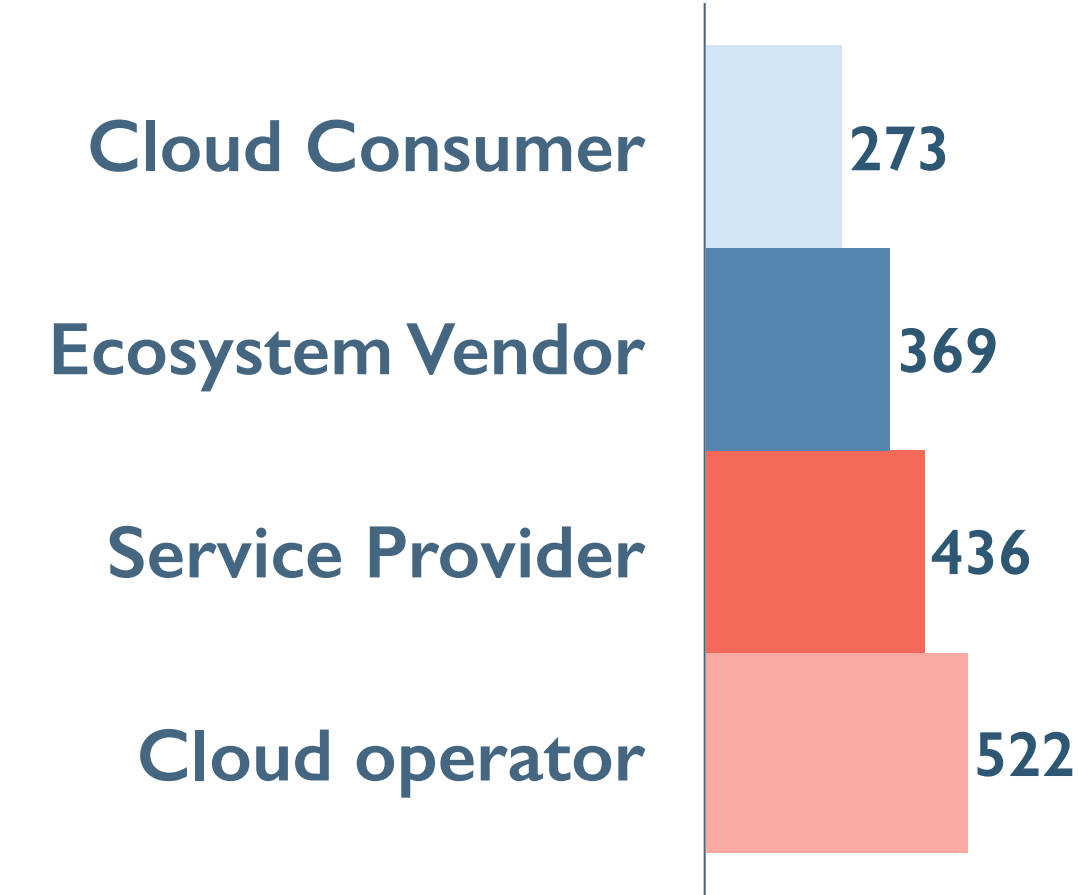


DEPLOYMENT SURVEY

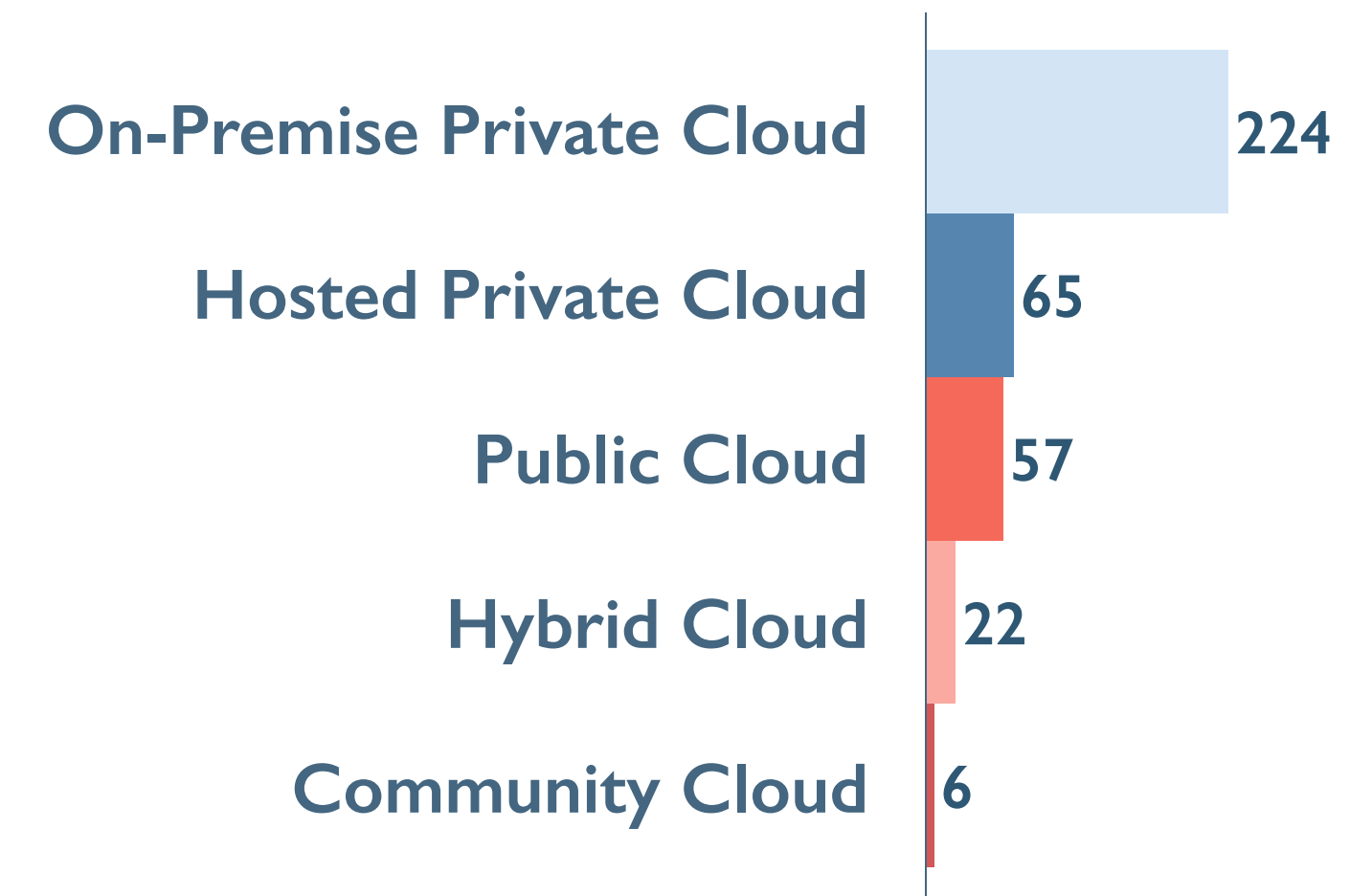
Information sources



User Types

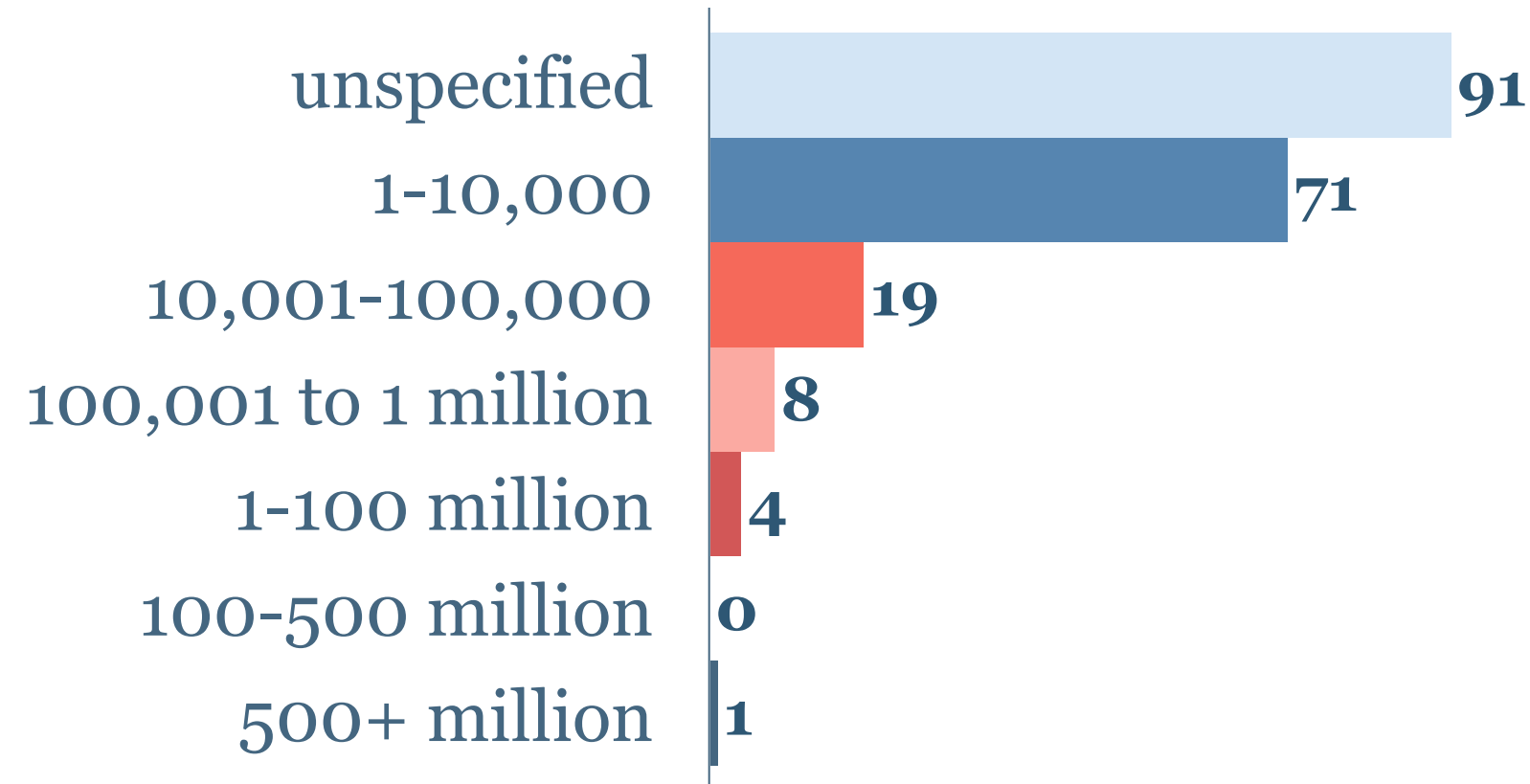


Deployment Types

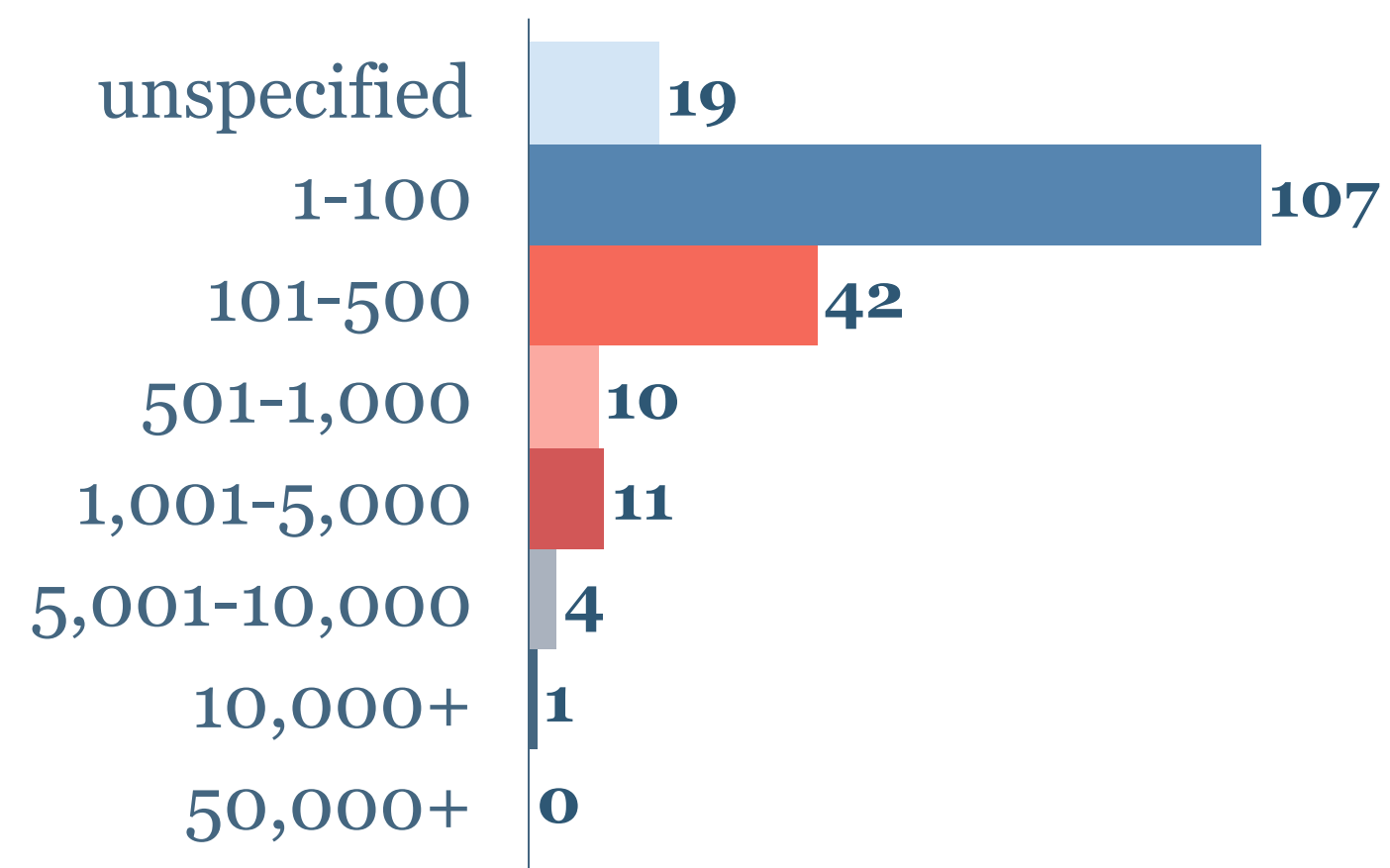


DEV/QA

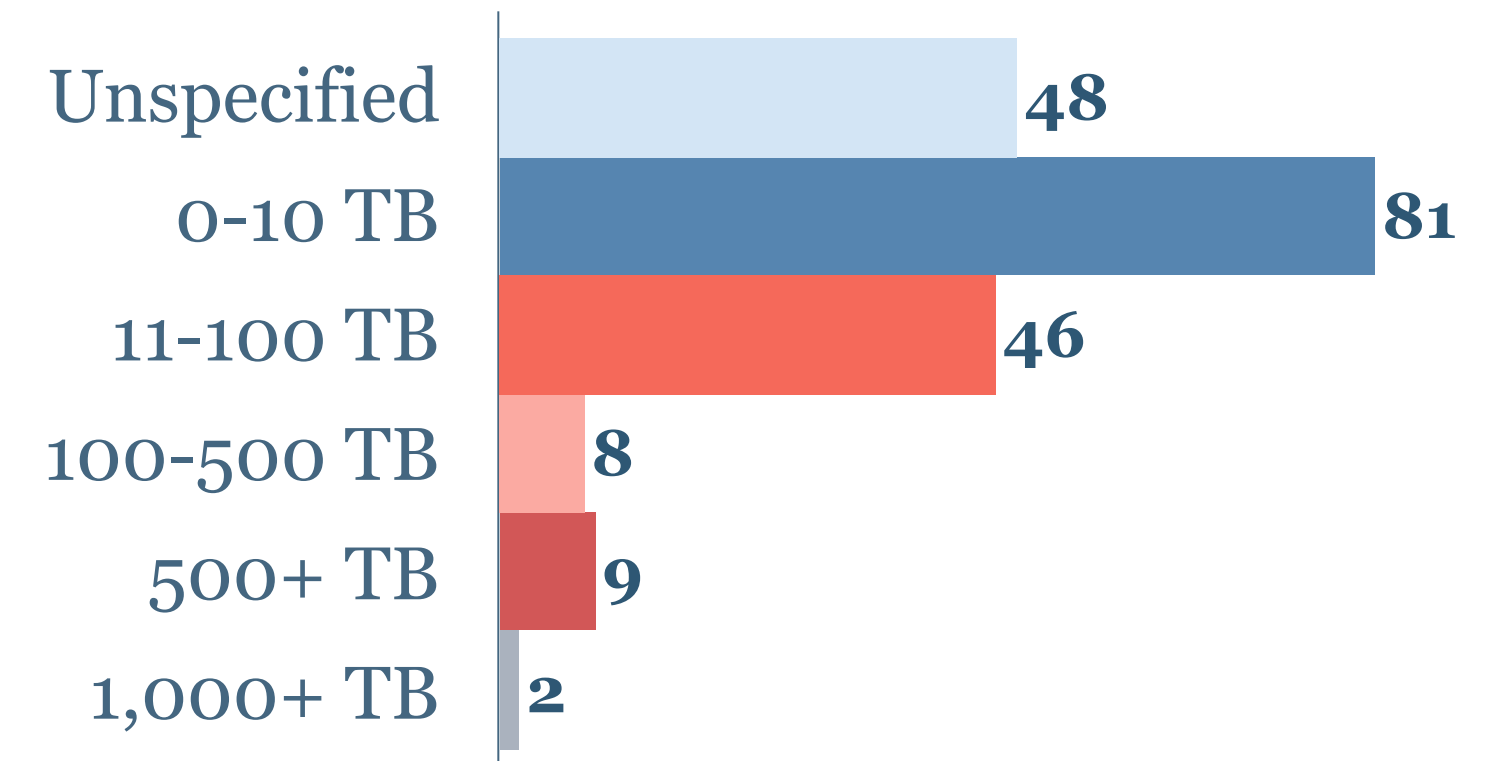
of objects



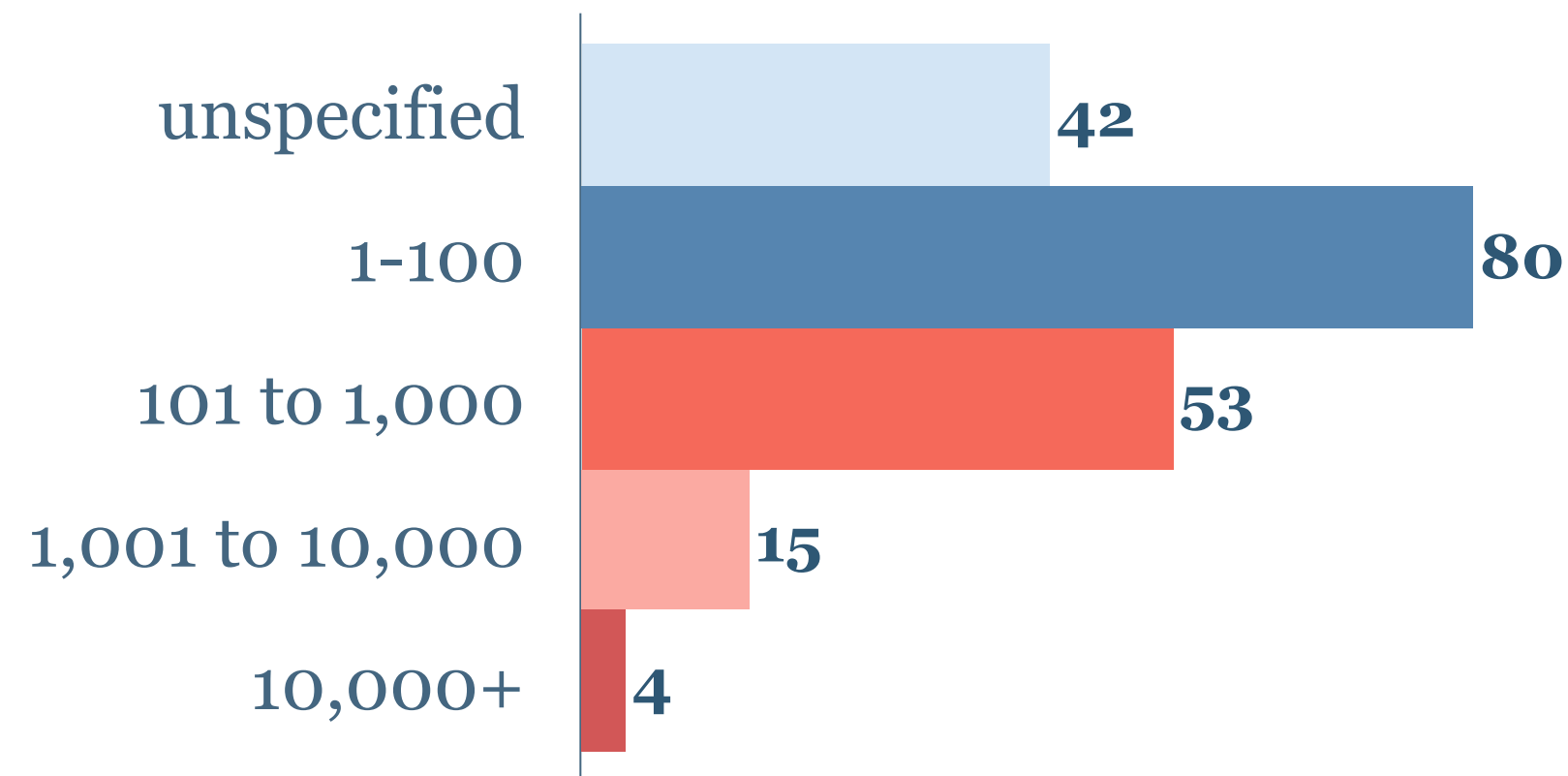
of cores



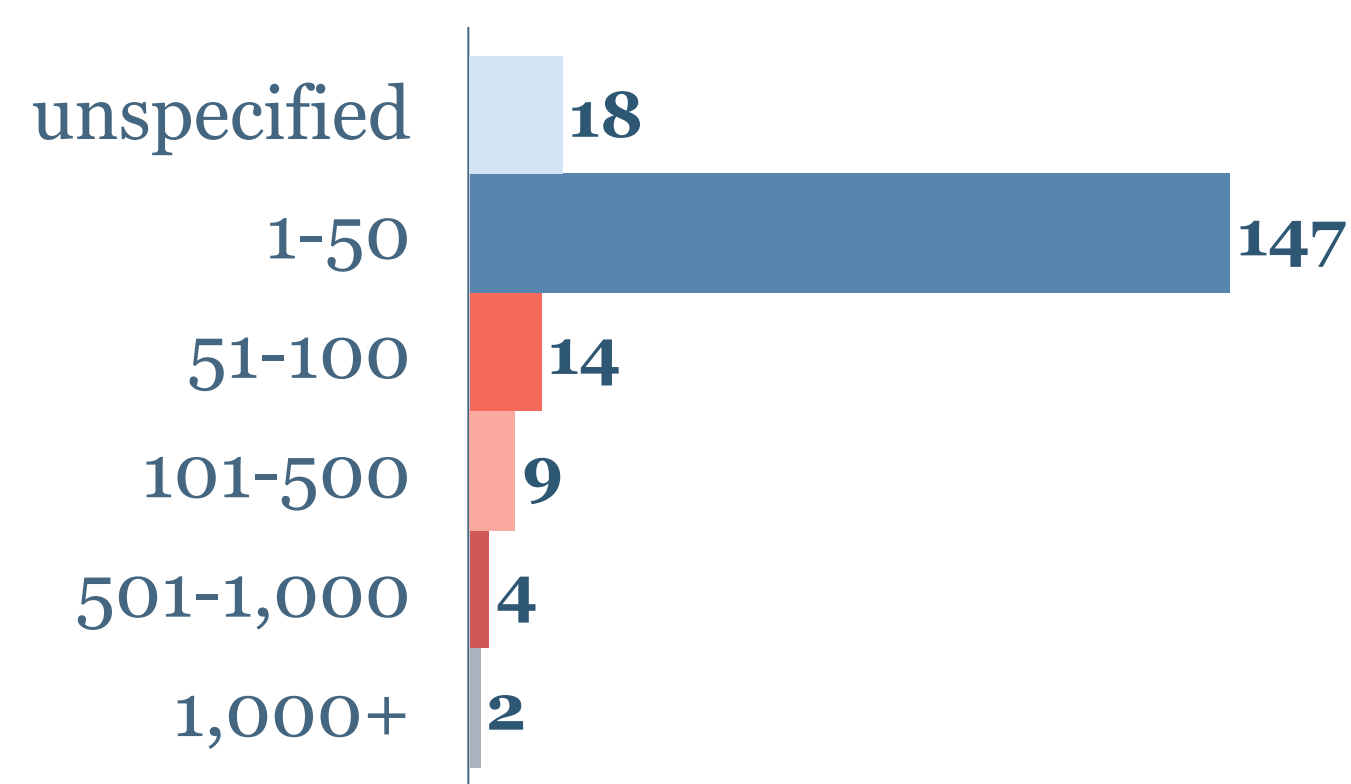
Block Storage Size



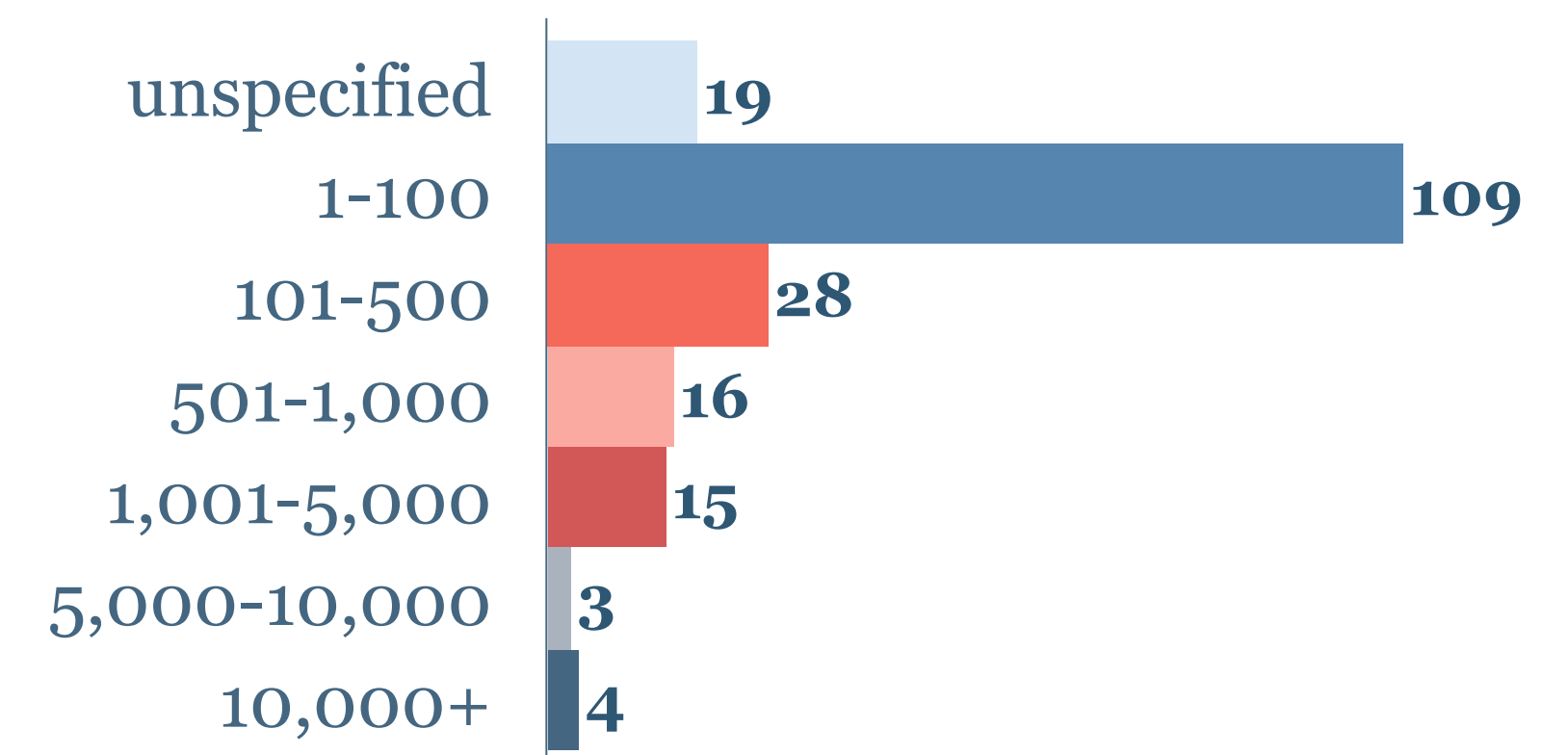
of IPs



of compute nodes

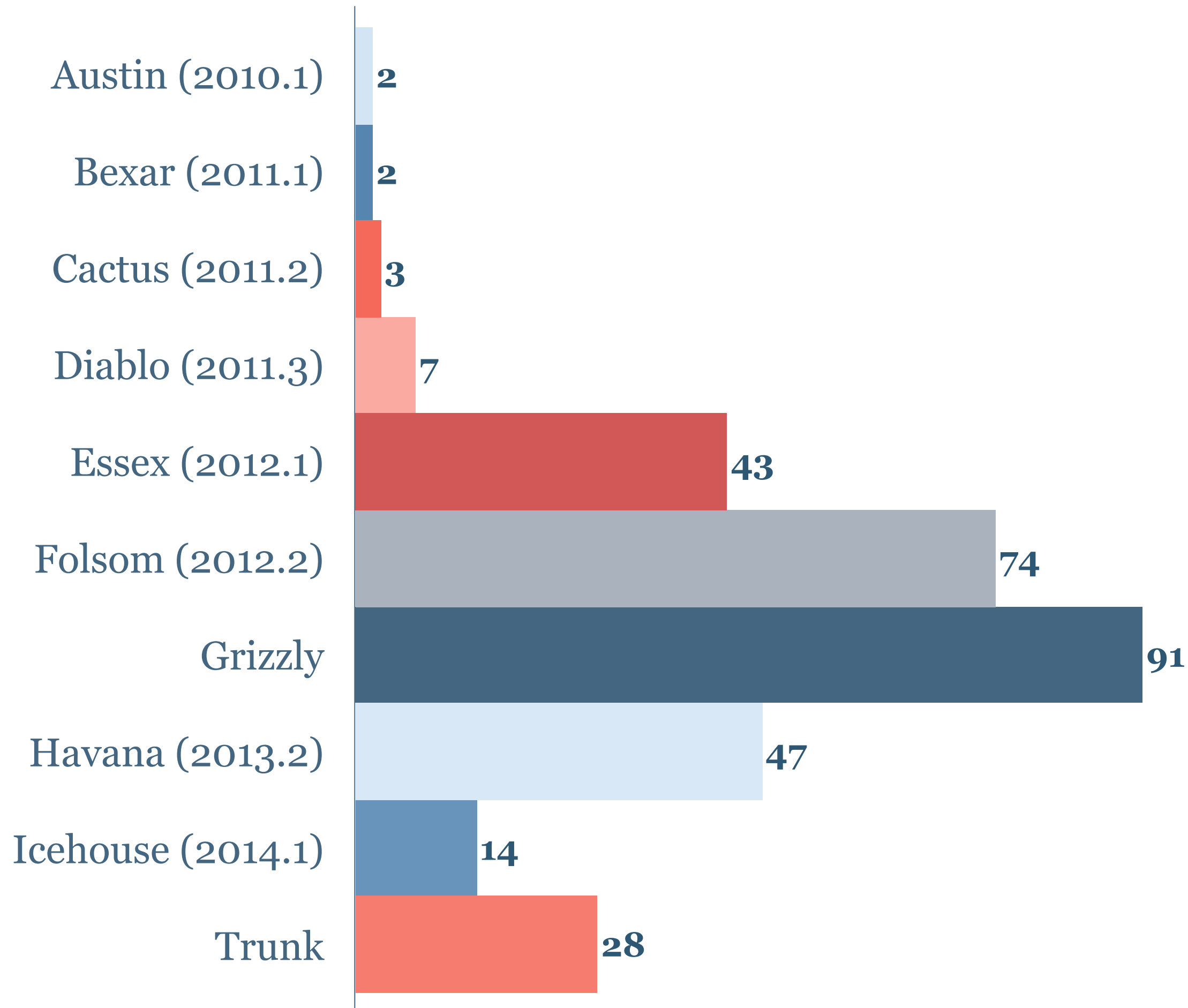


of instances

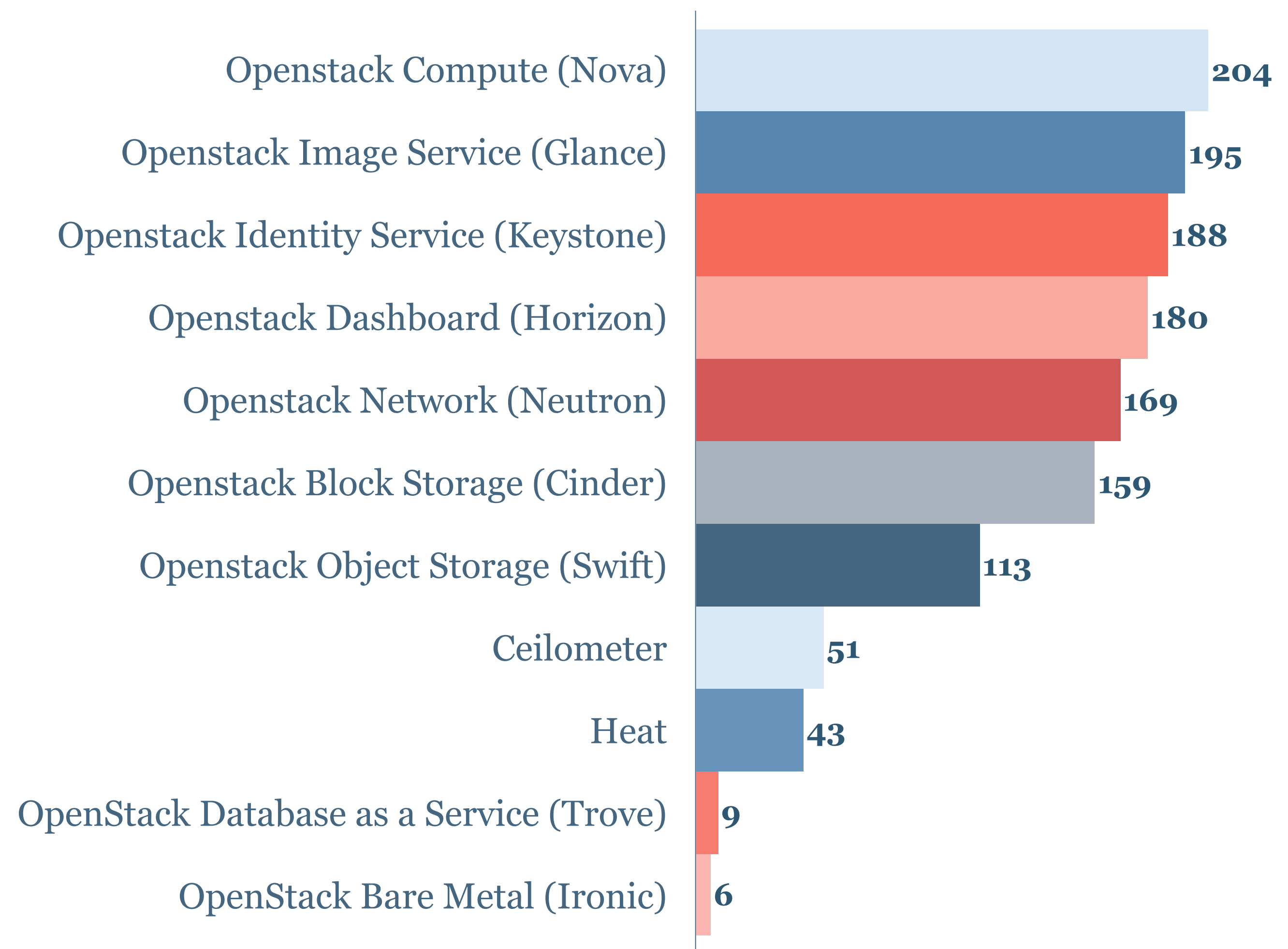


DEV/QA

Release



Services



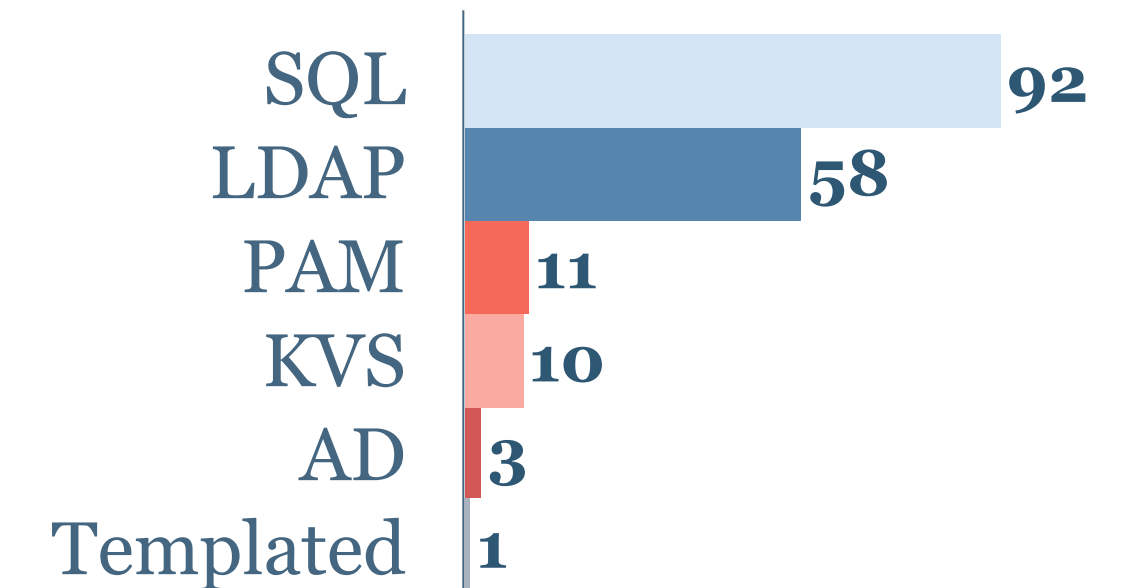
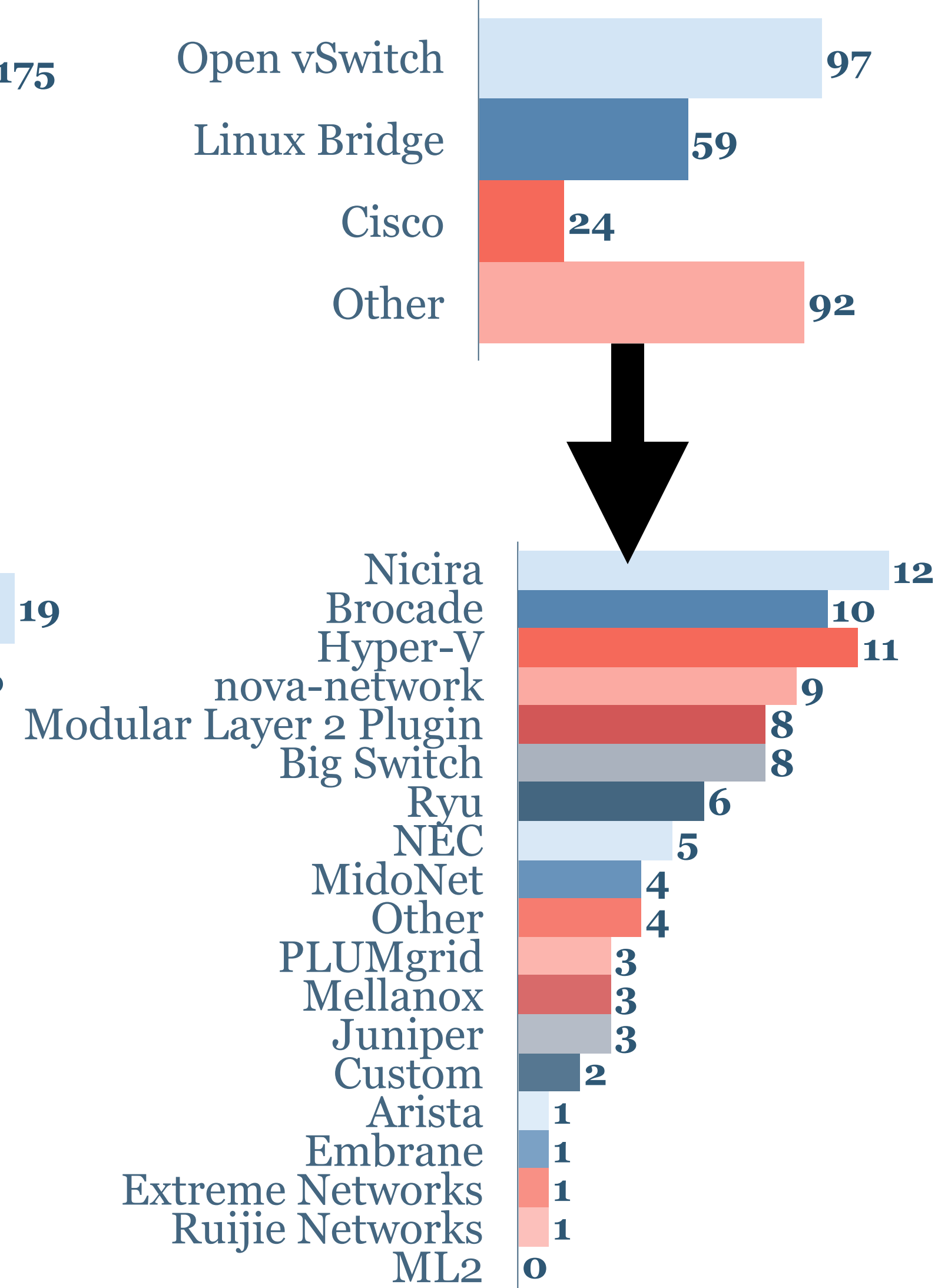
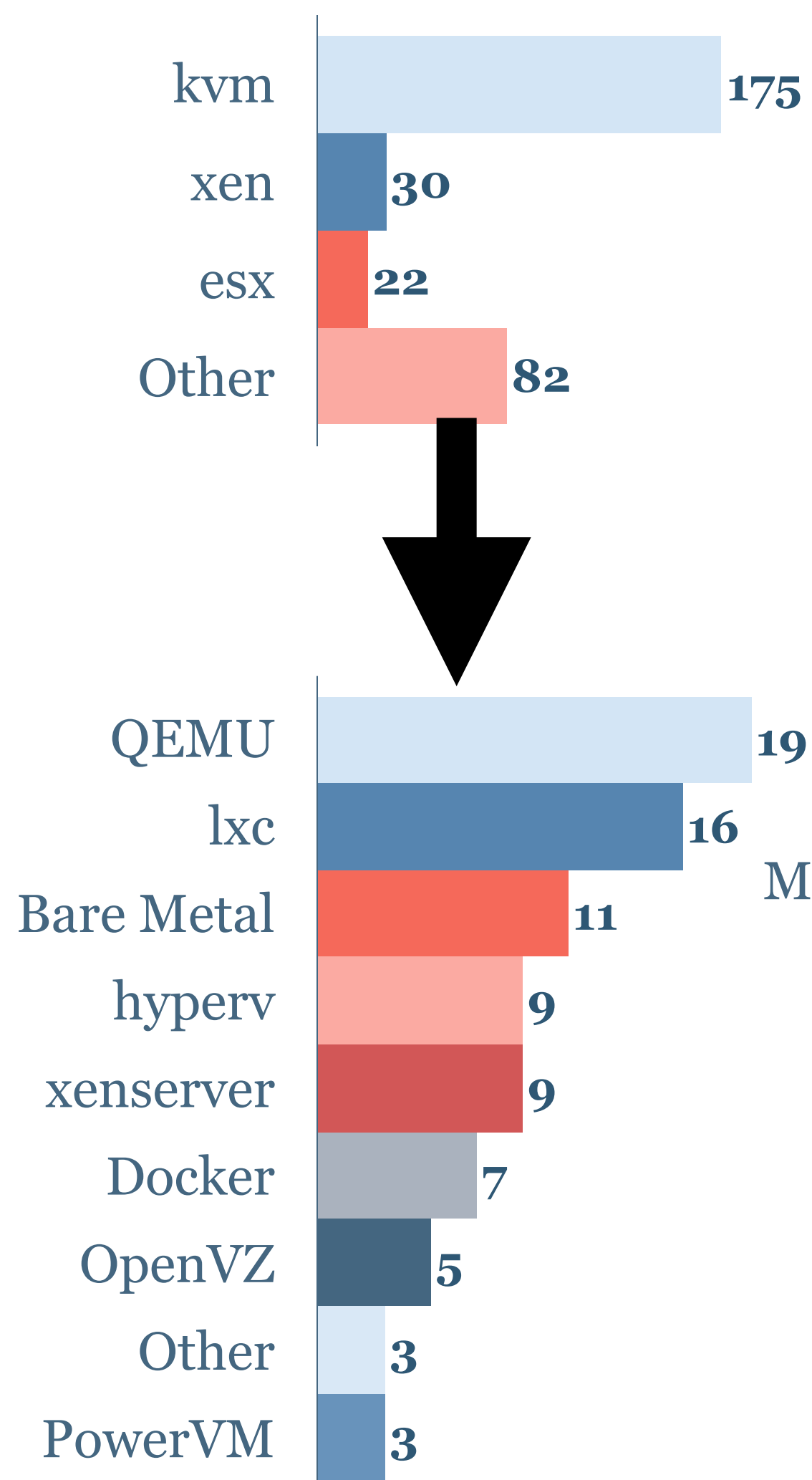
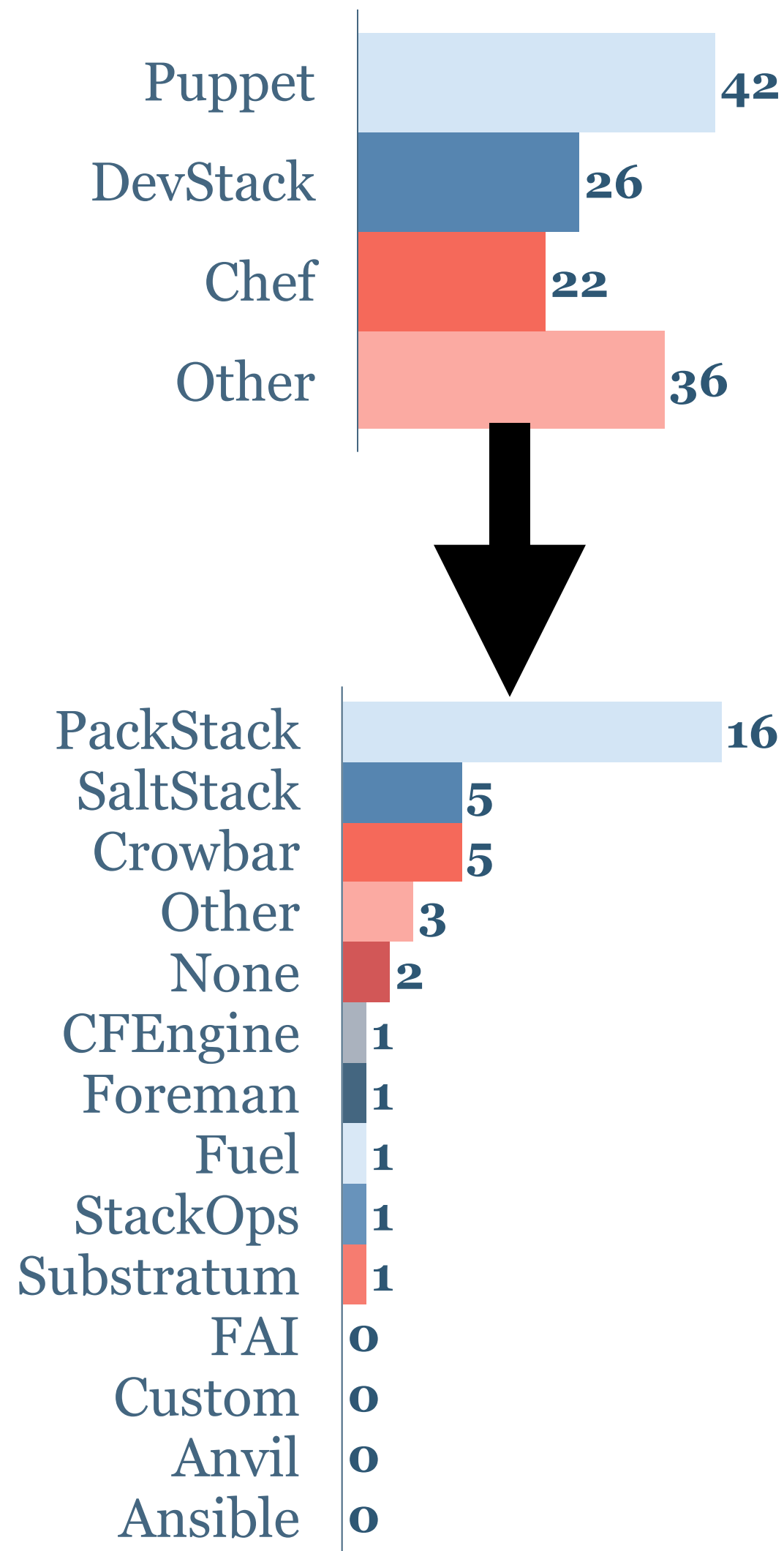
DEV/QA

Deployment Tool

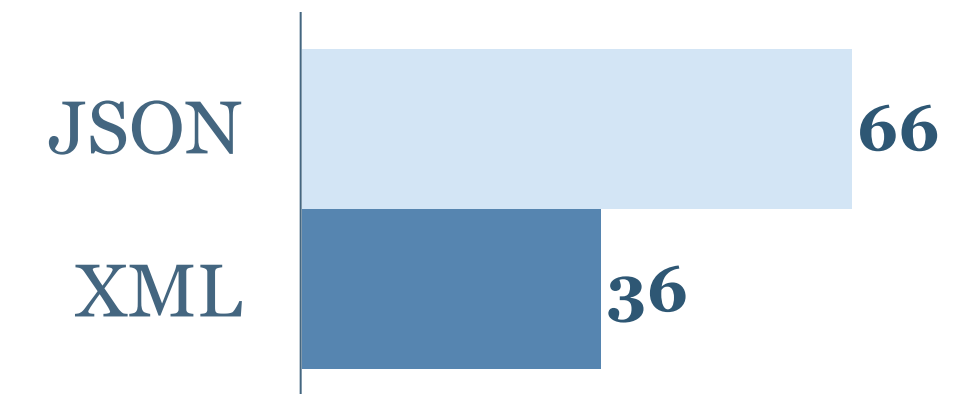
Hypervisor

Network Driver

Identity Driver

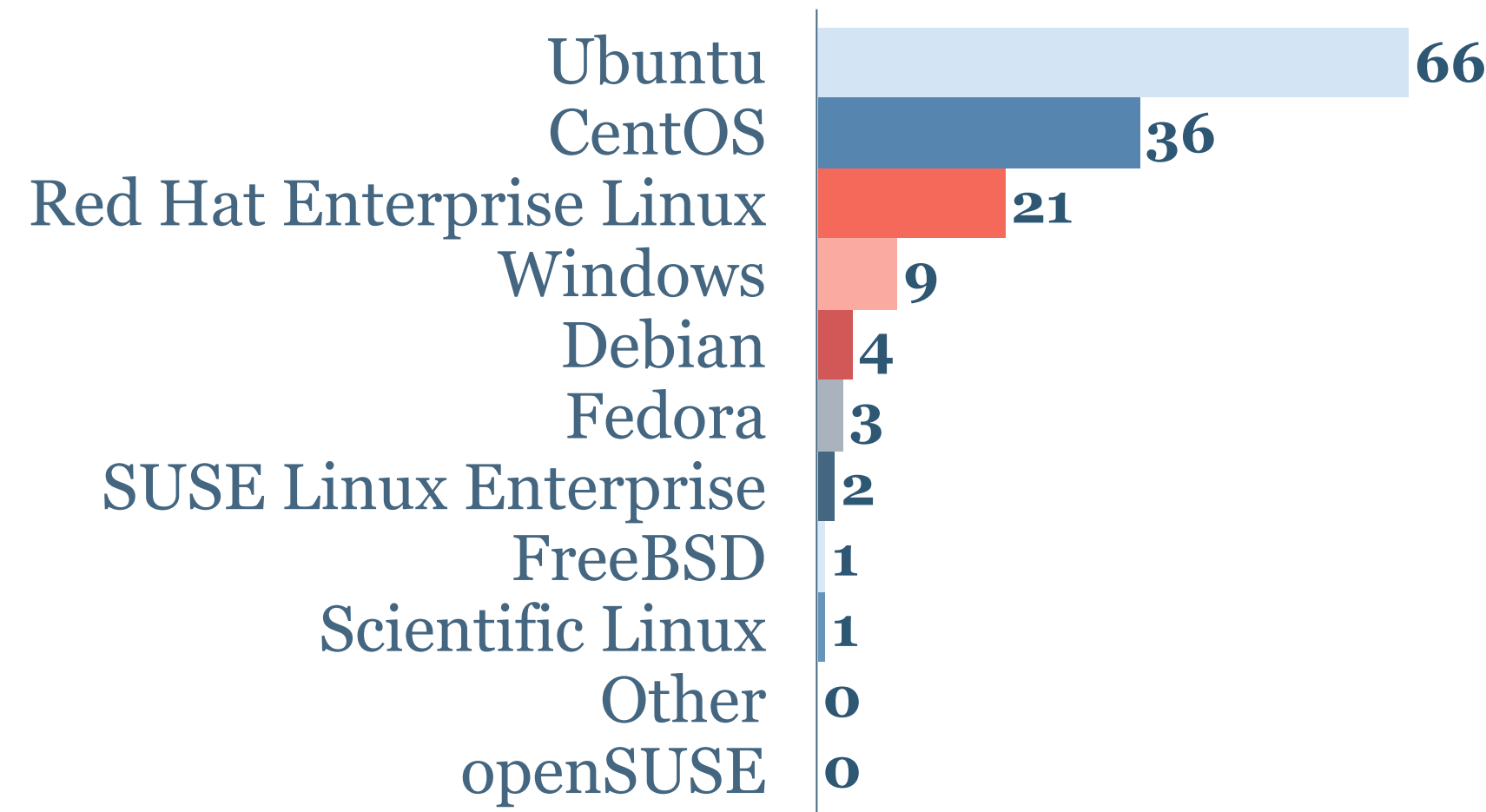


API Format

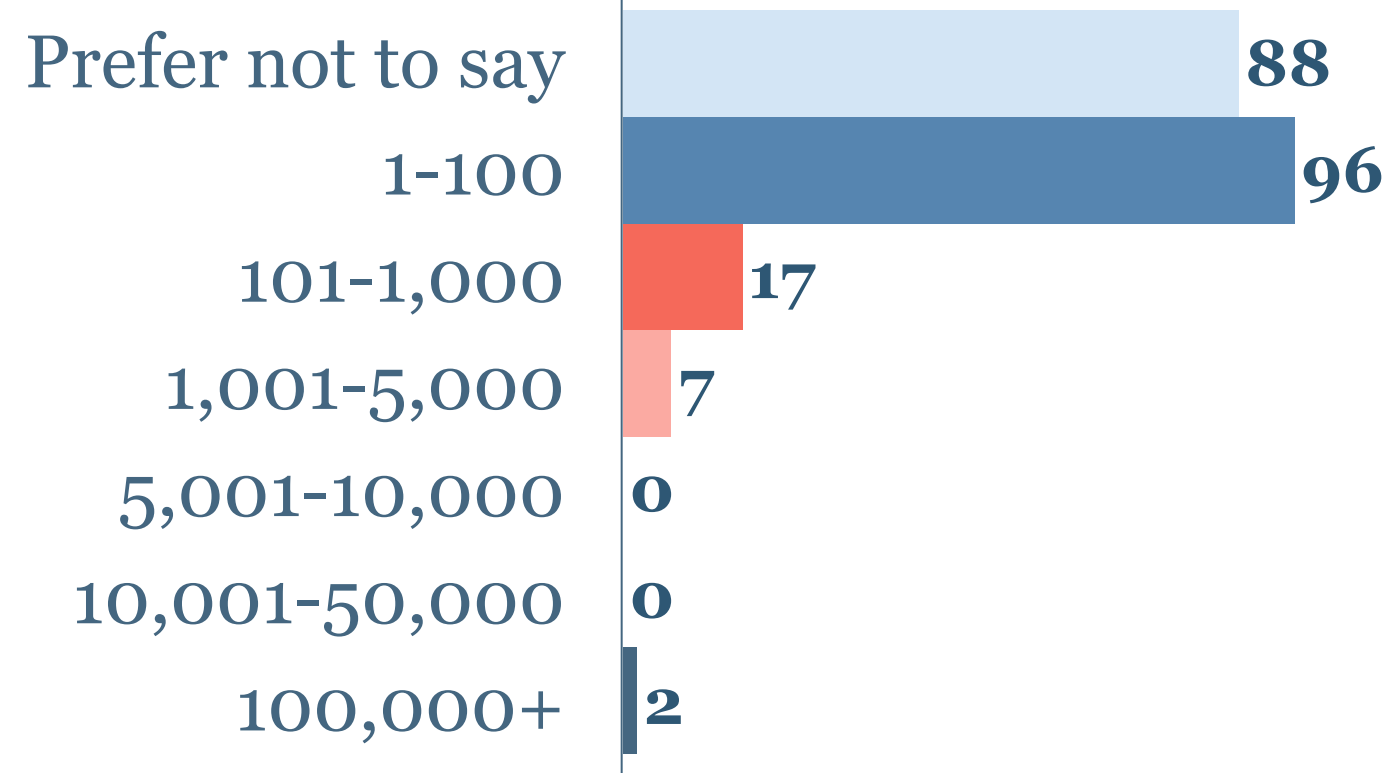


DEV/QA

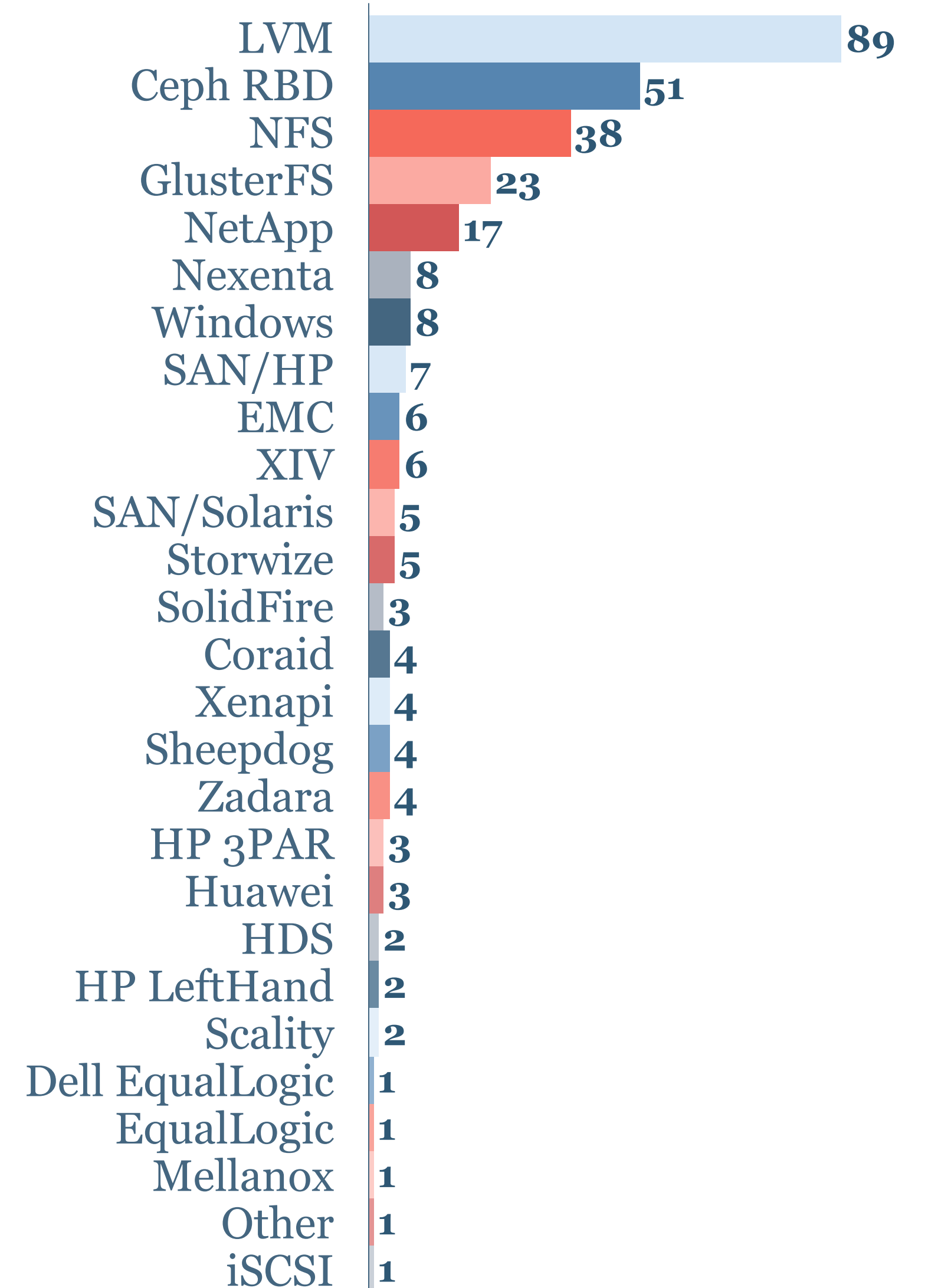
Operating System



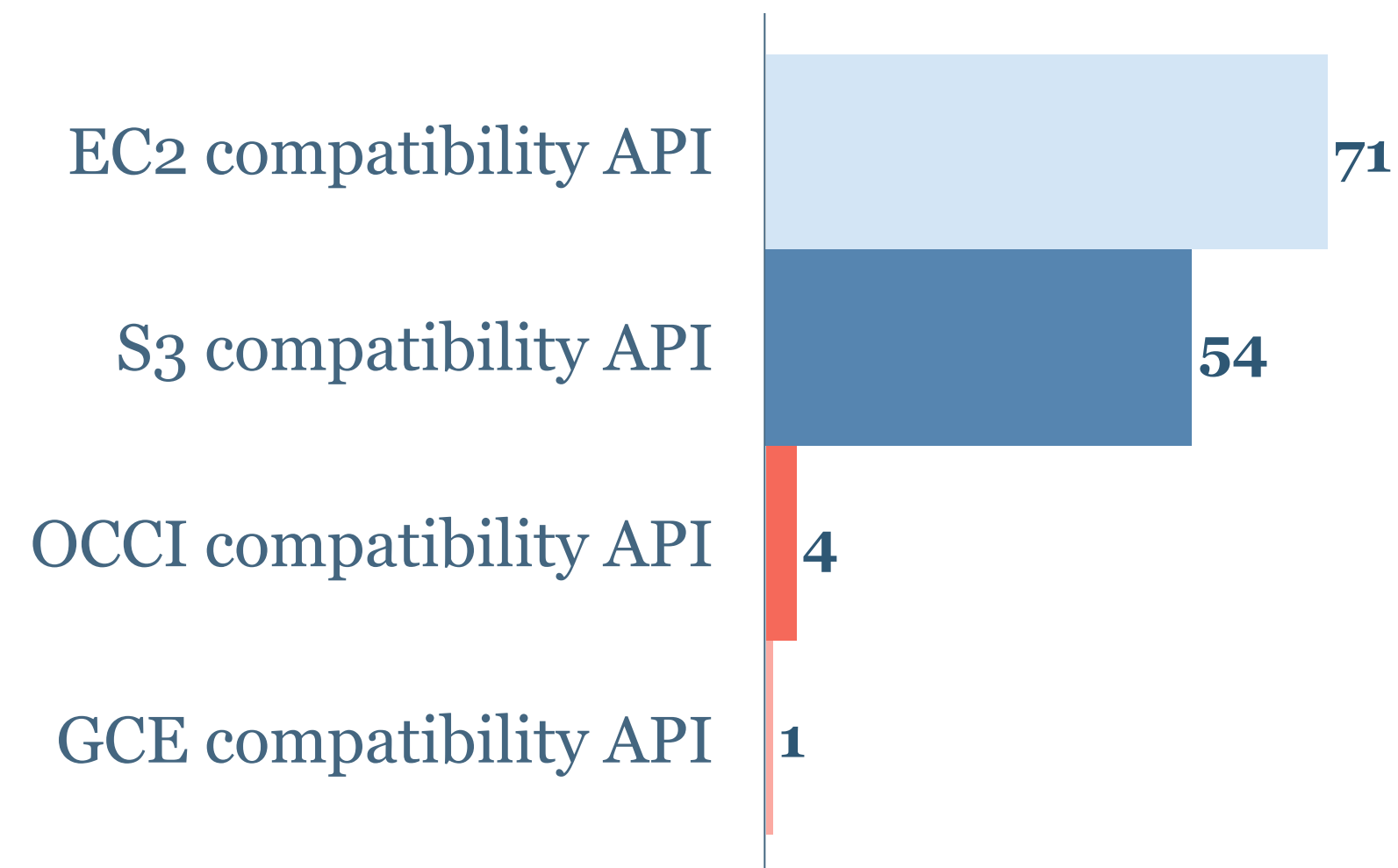
of users



Block Storage Drivers

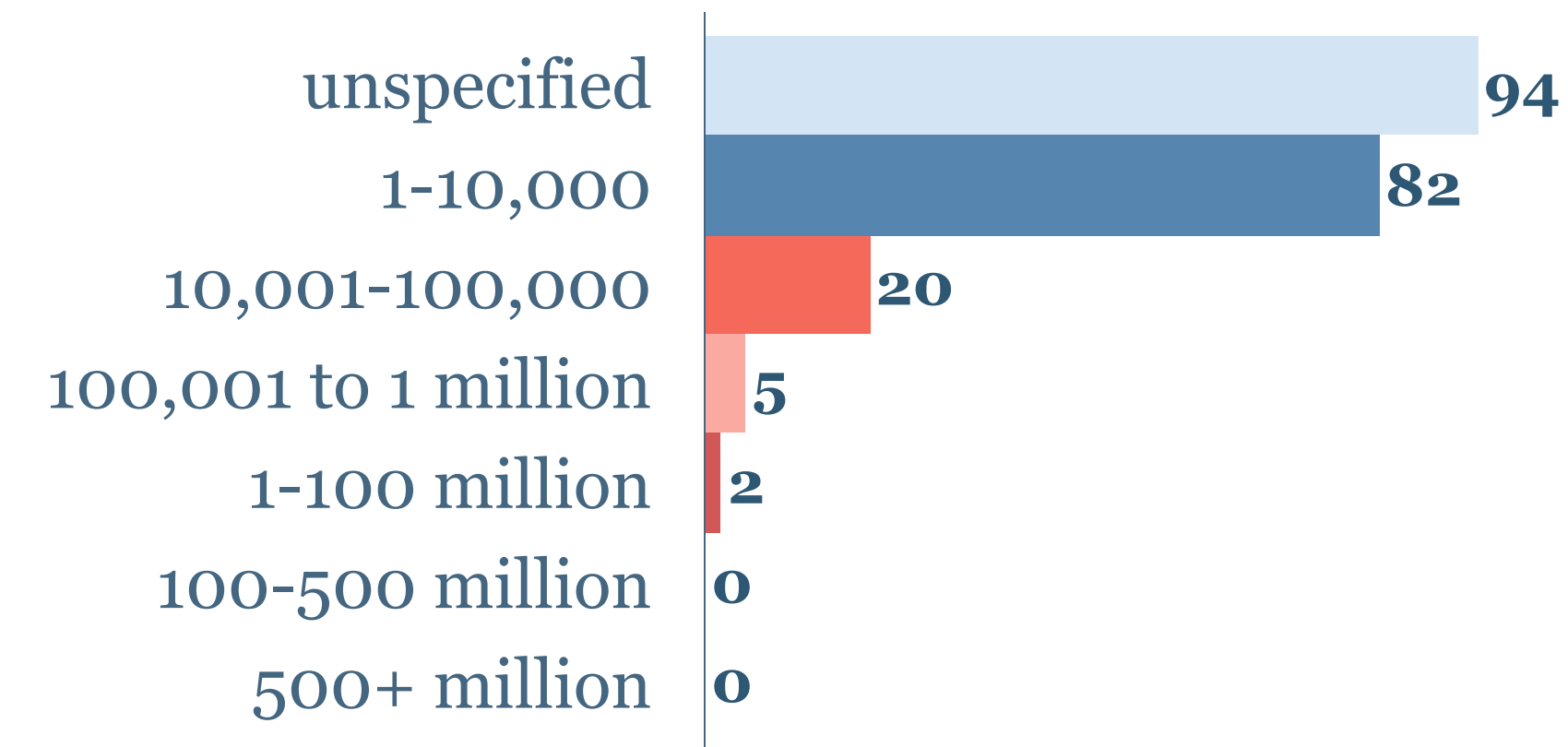


Compatibility APIs

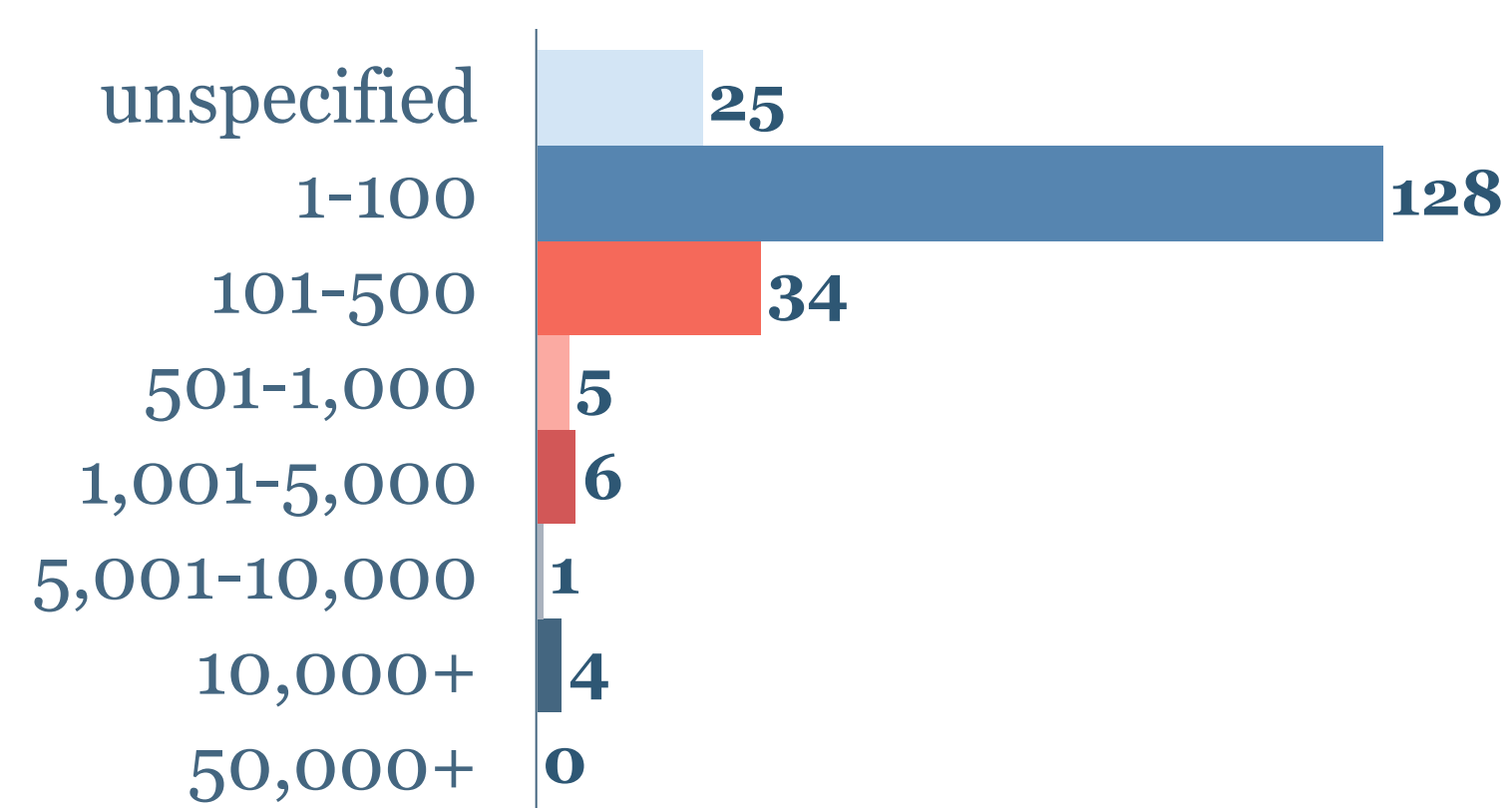


PROOF OF CONCEPT

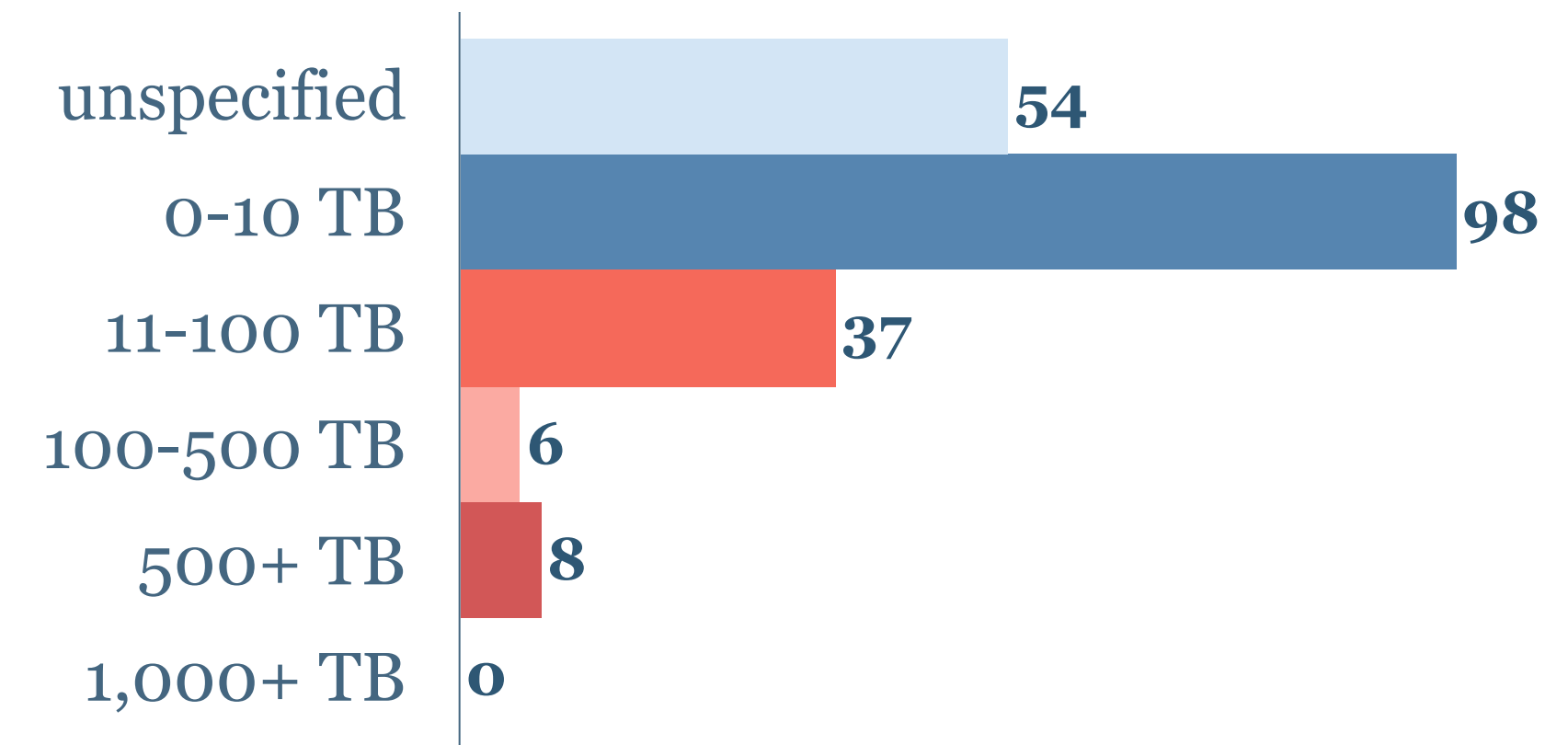
of objects



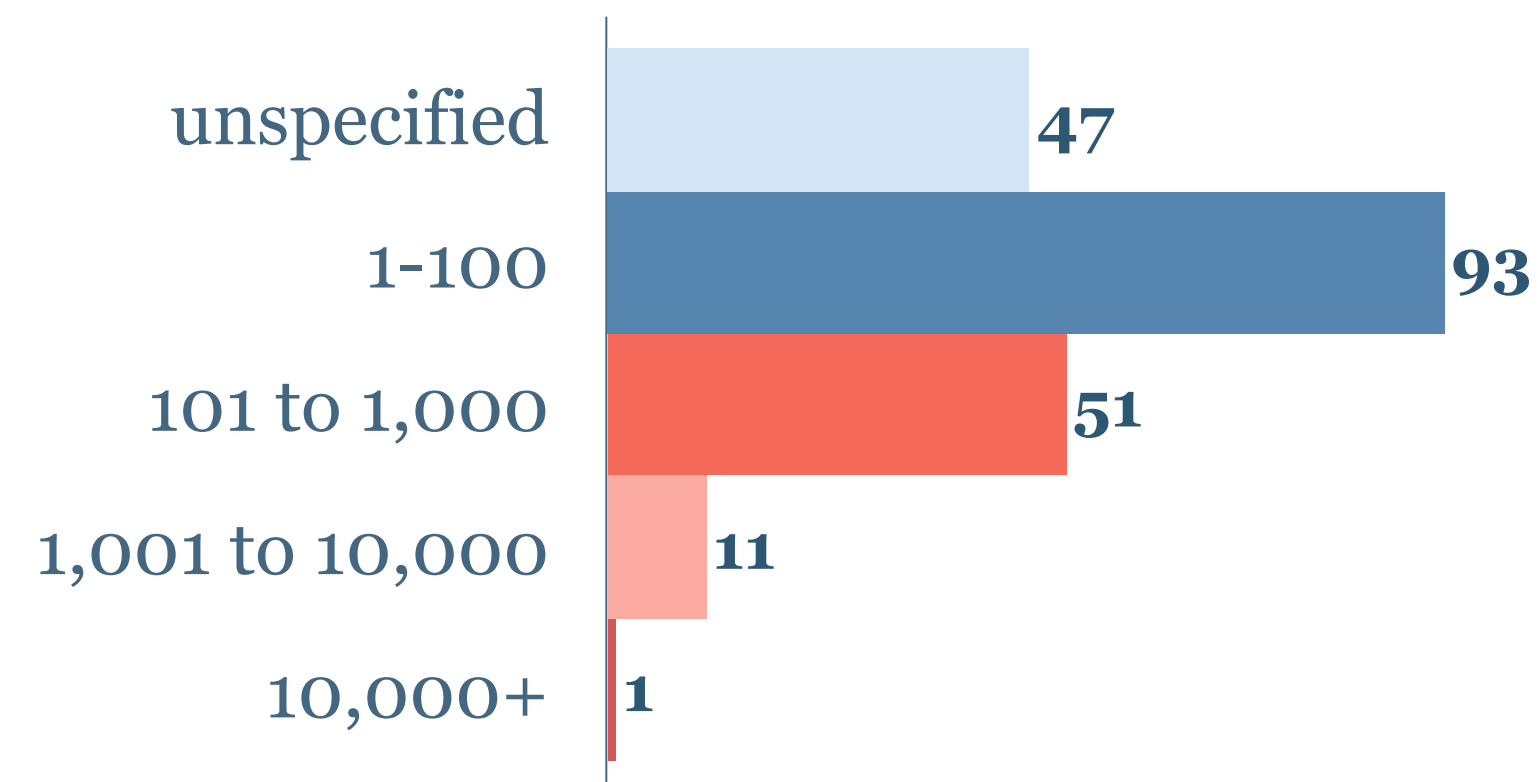
of cores



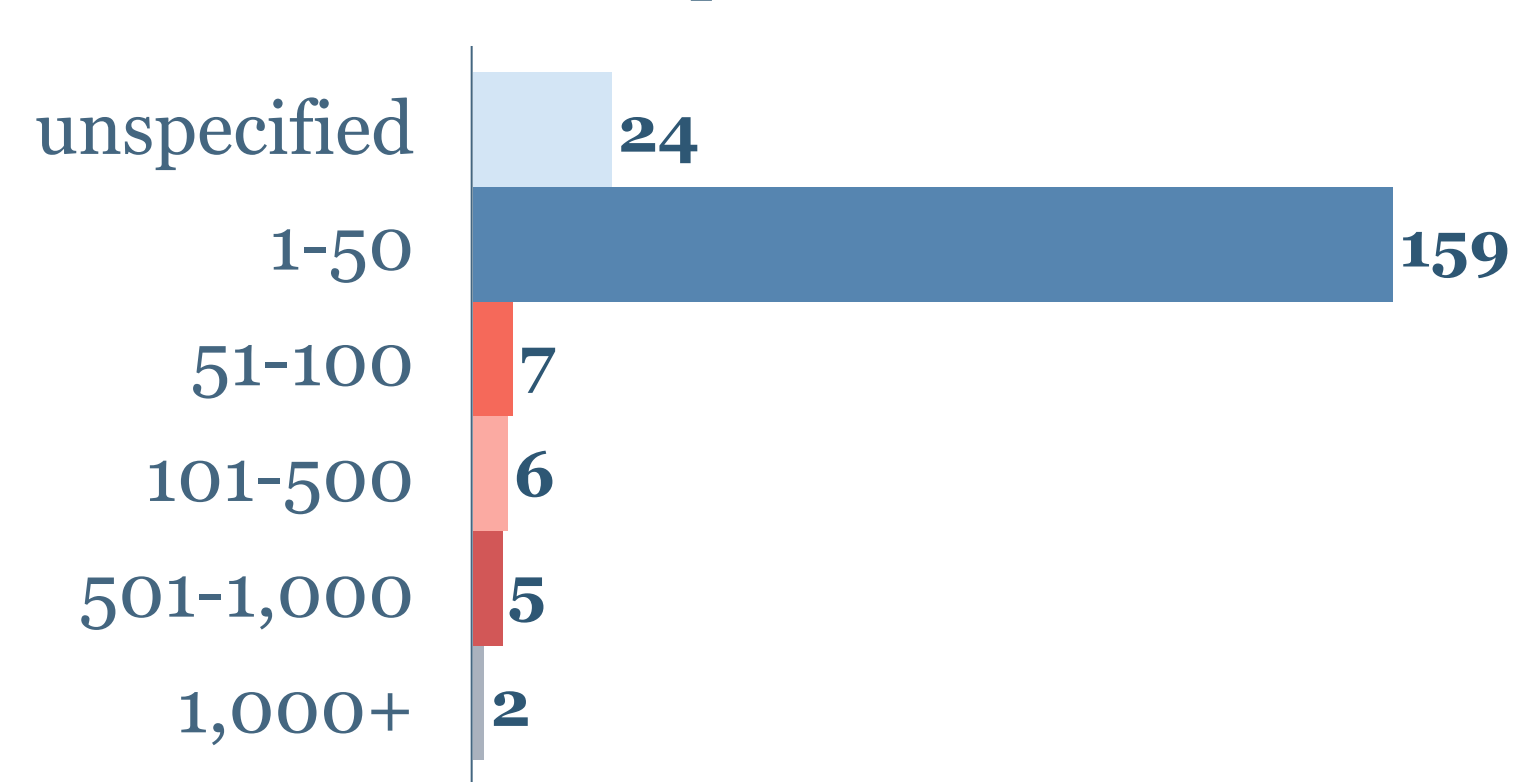
Block Storage Size



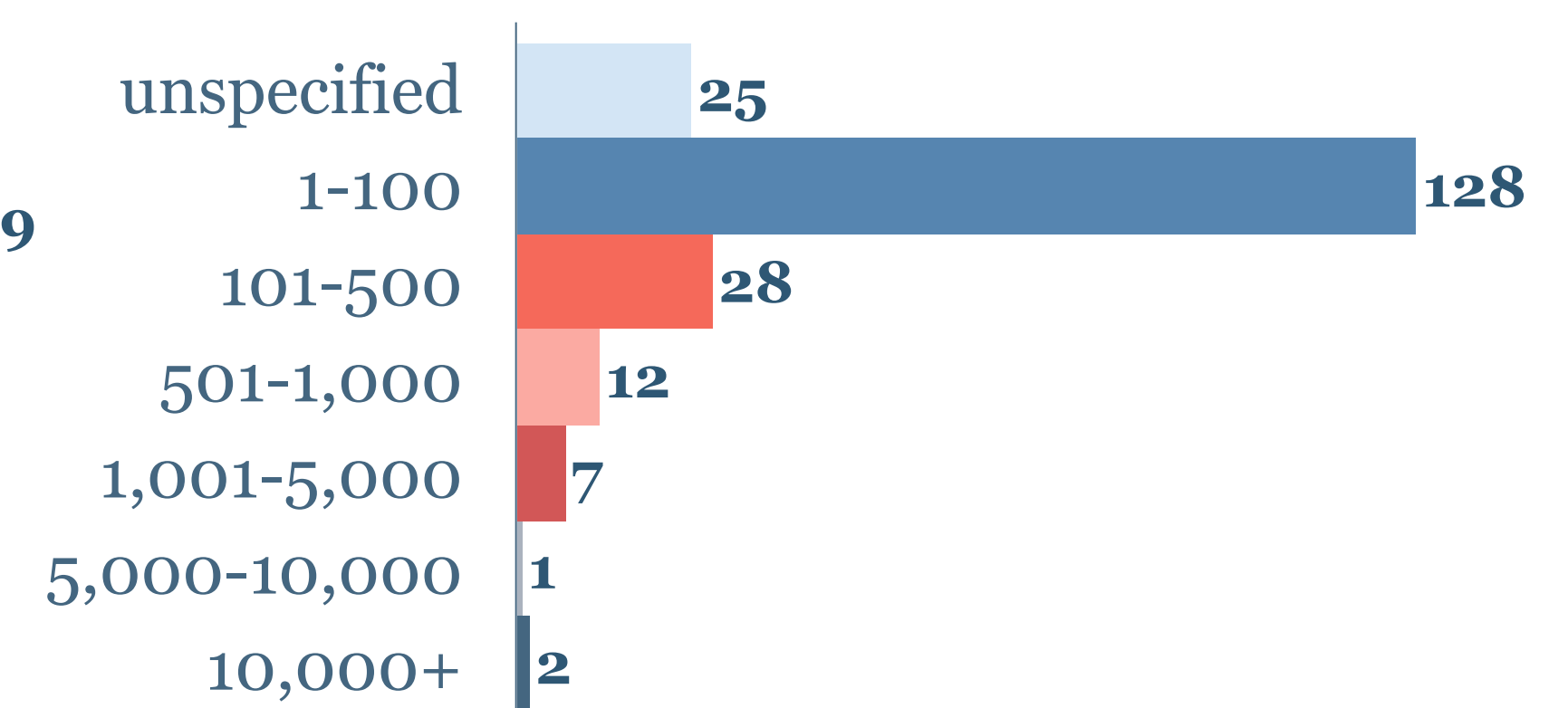
of IPs



of compute nodes

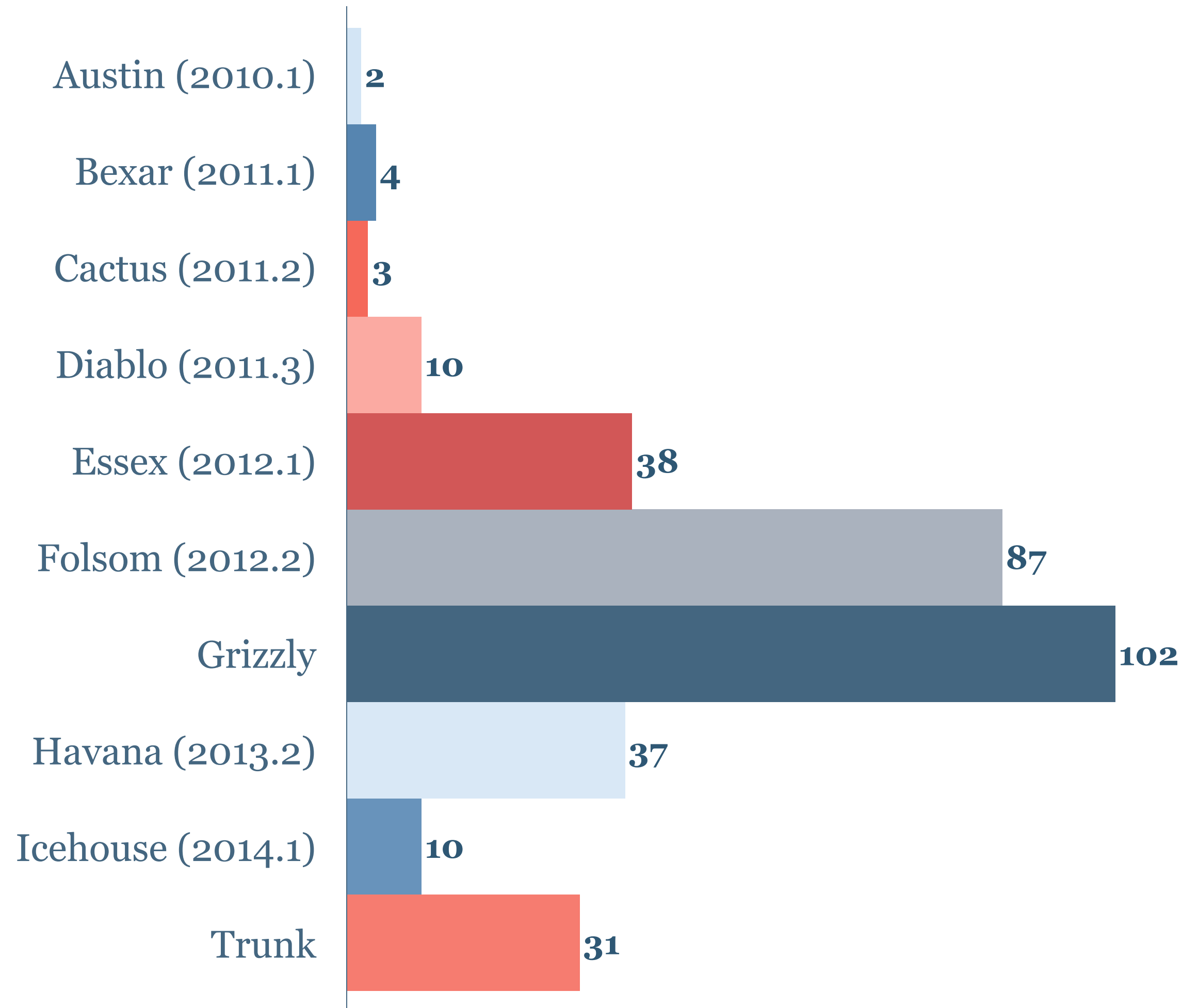


of instances

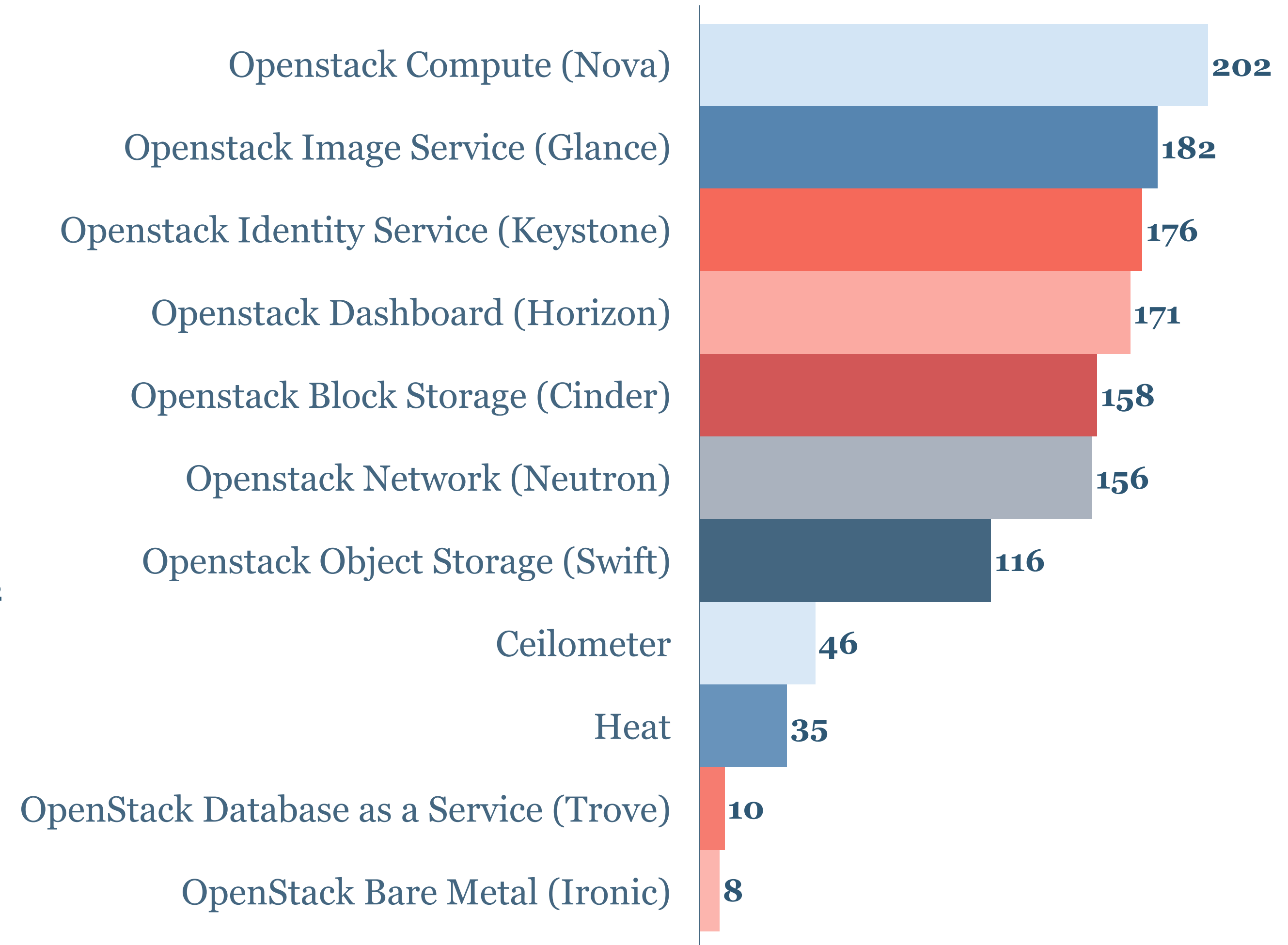


PROOF OF CONCEPT

Release

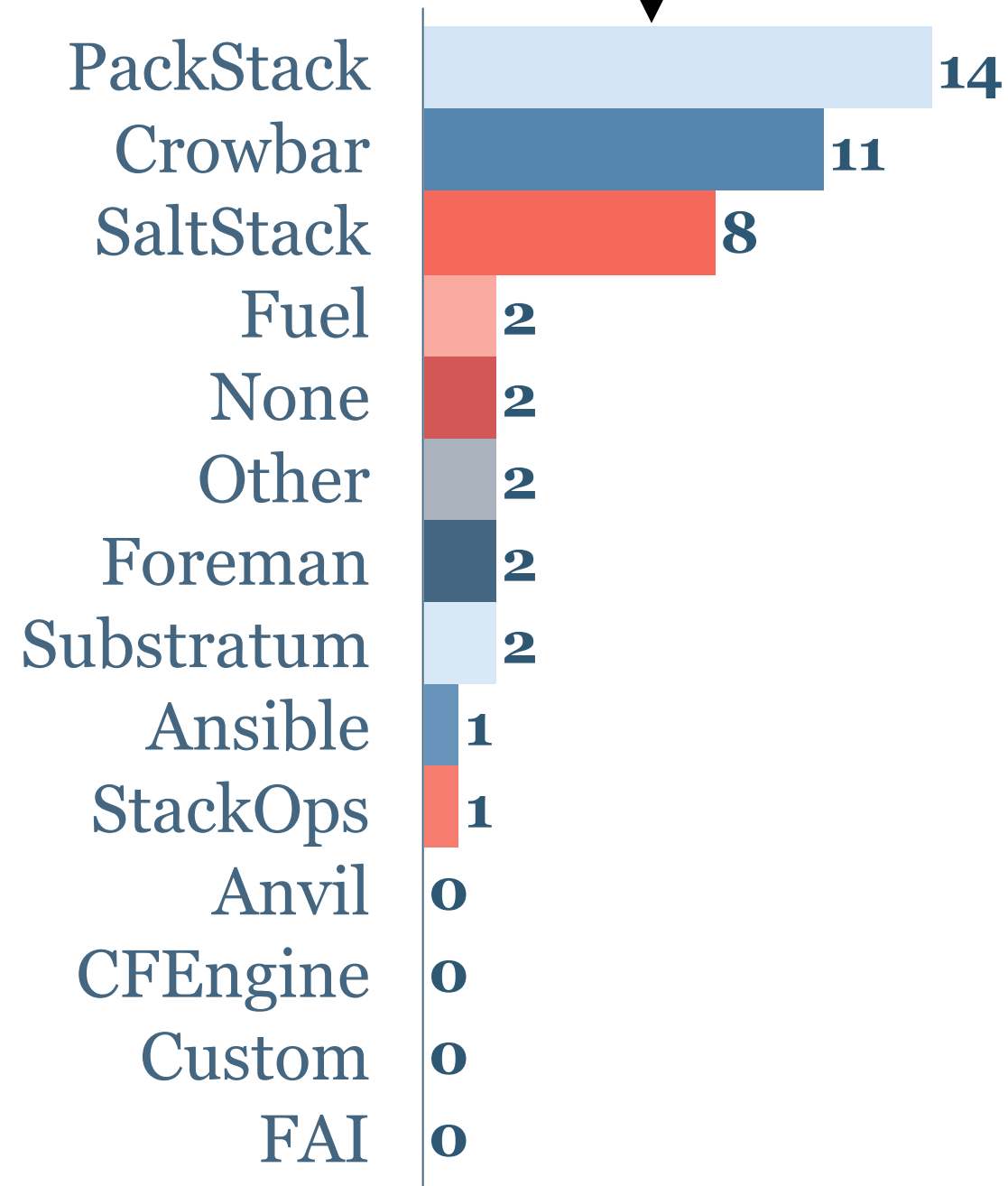
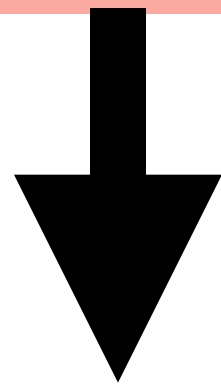
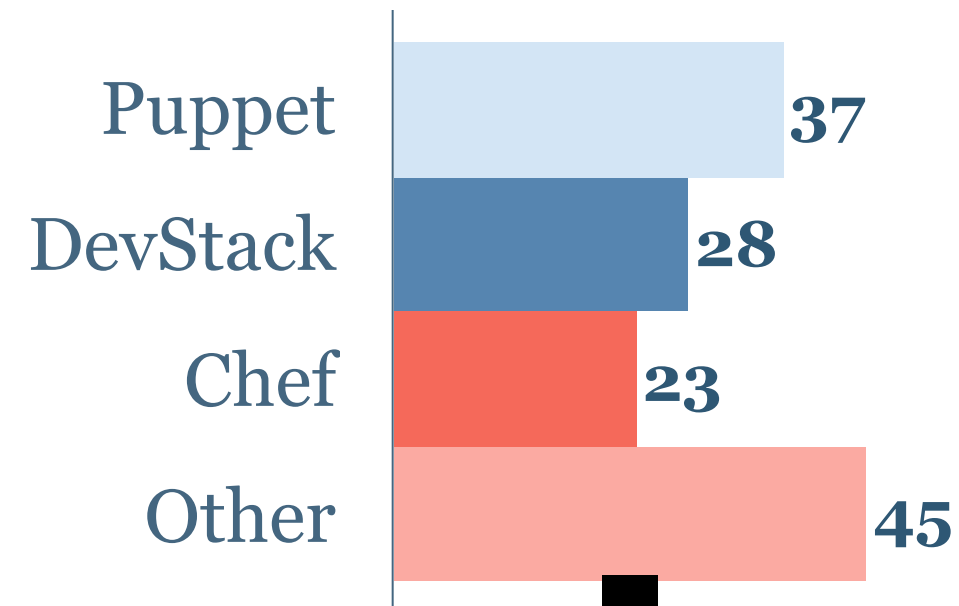


Services

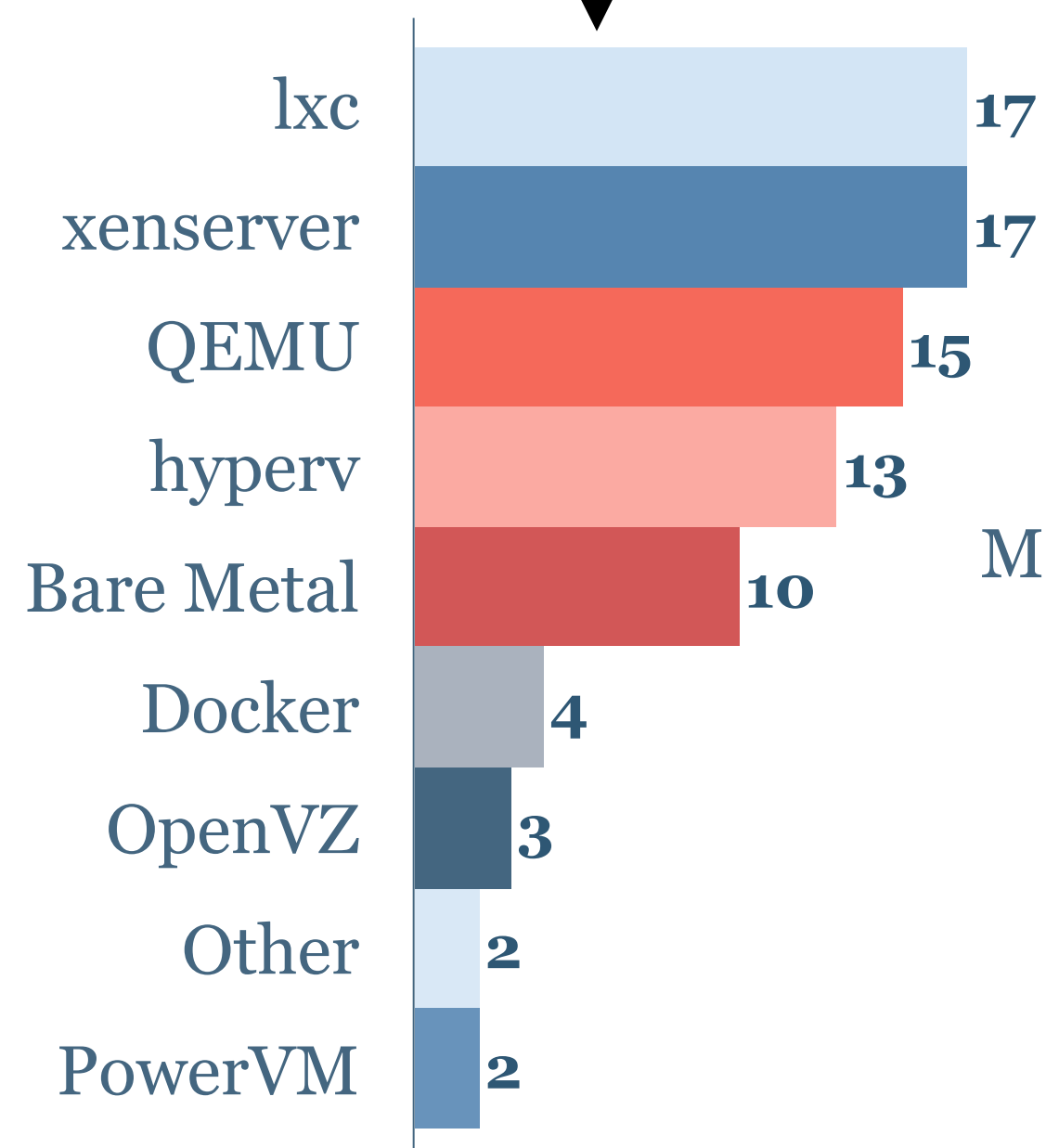
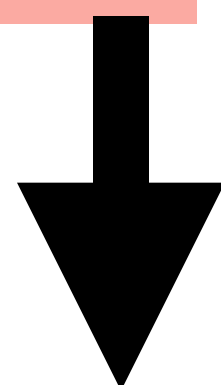
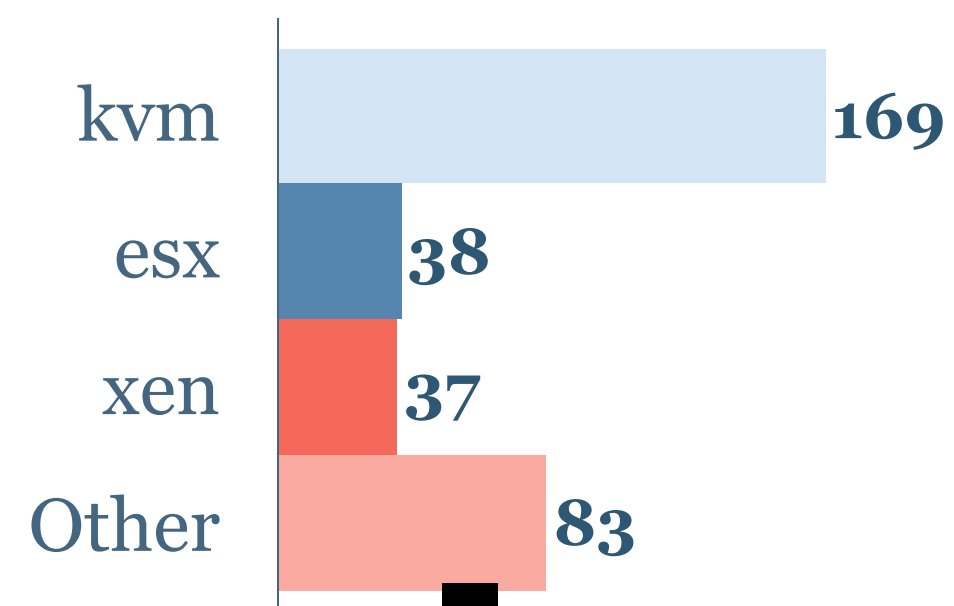


PROOF OF CONCEPT

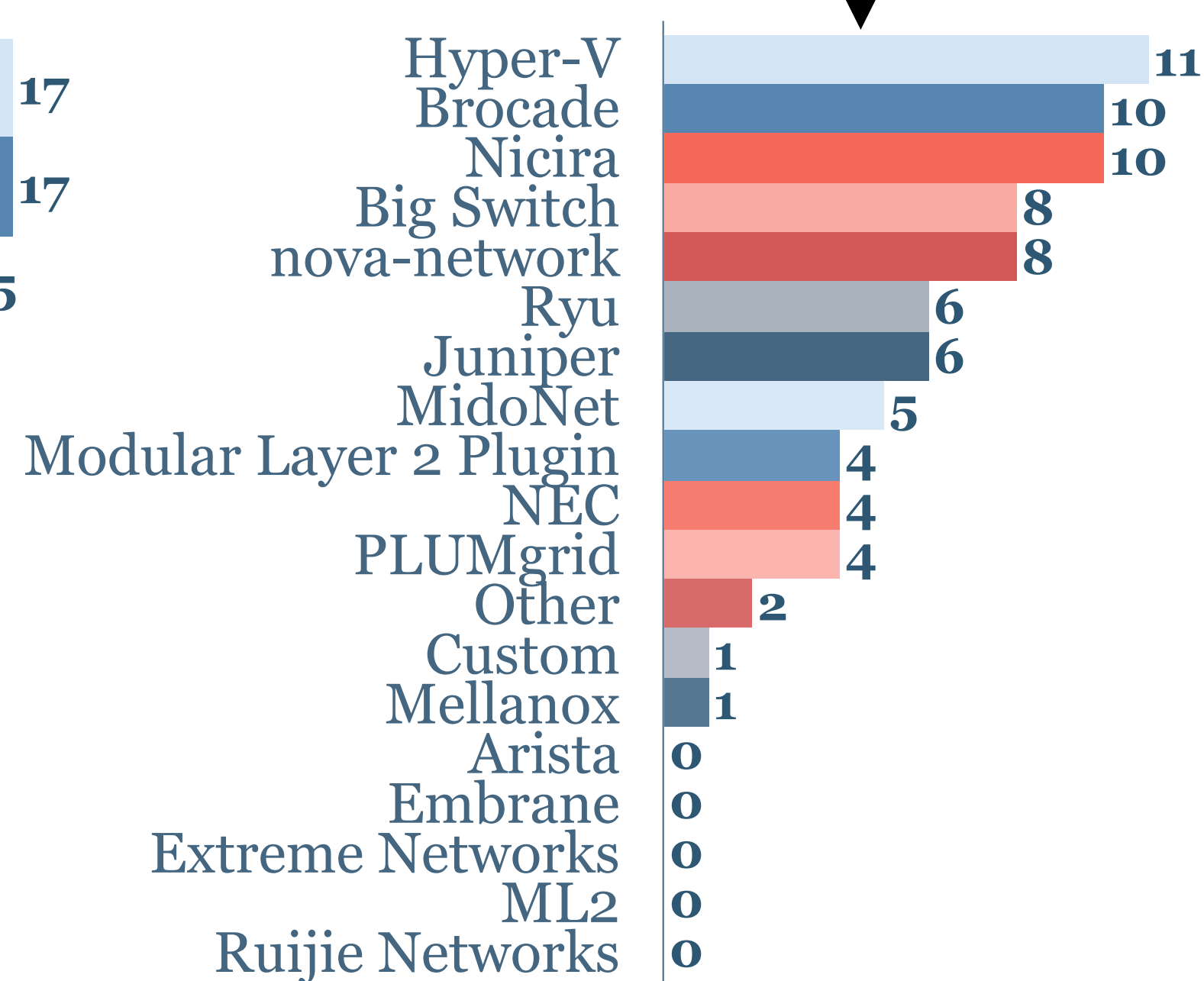
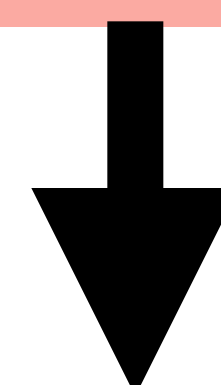
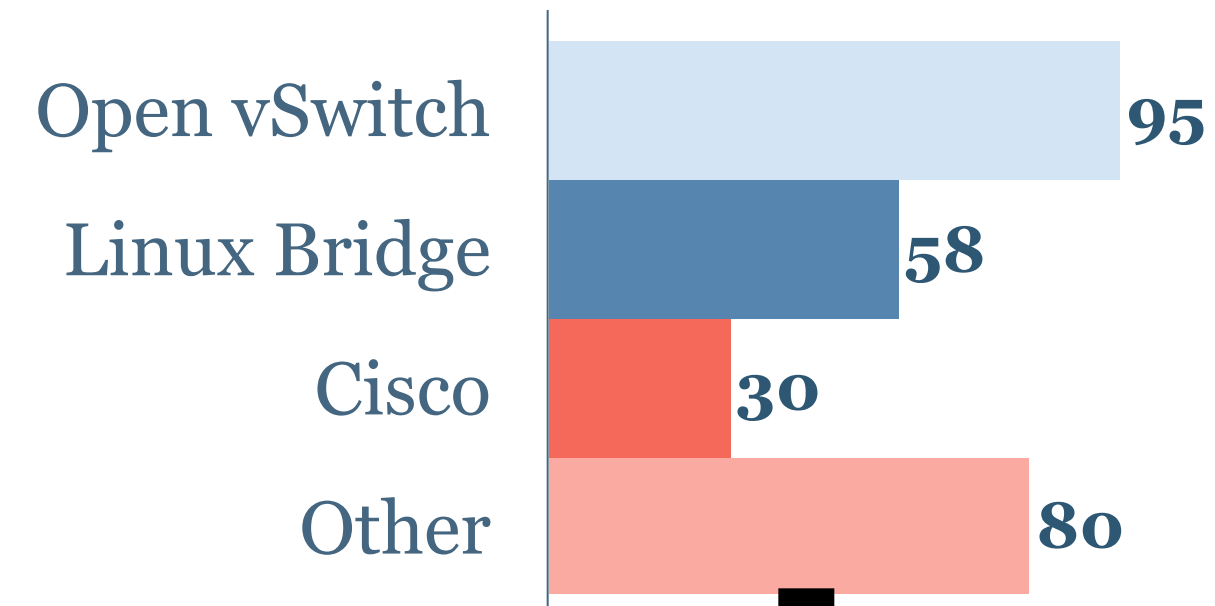
Deployment Tool



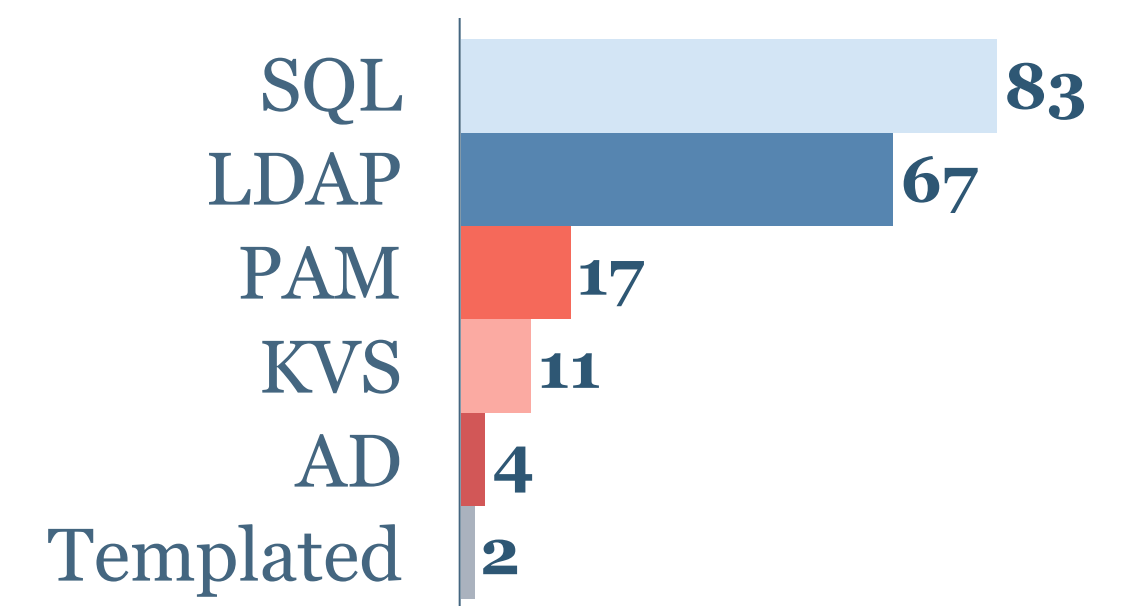
Hypervisor



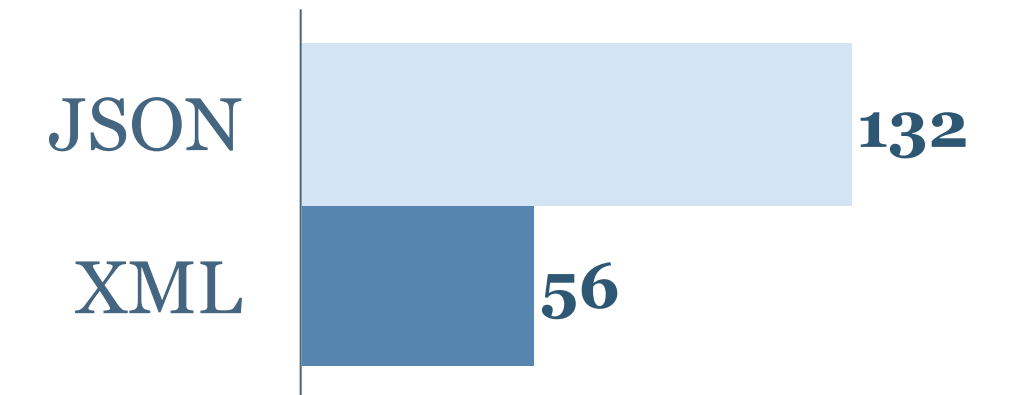
Network Driver



Identity Driver

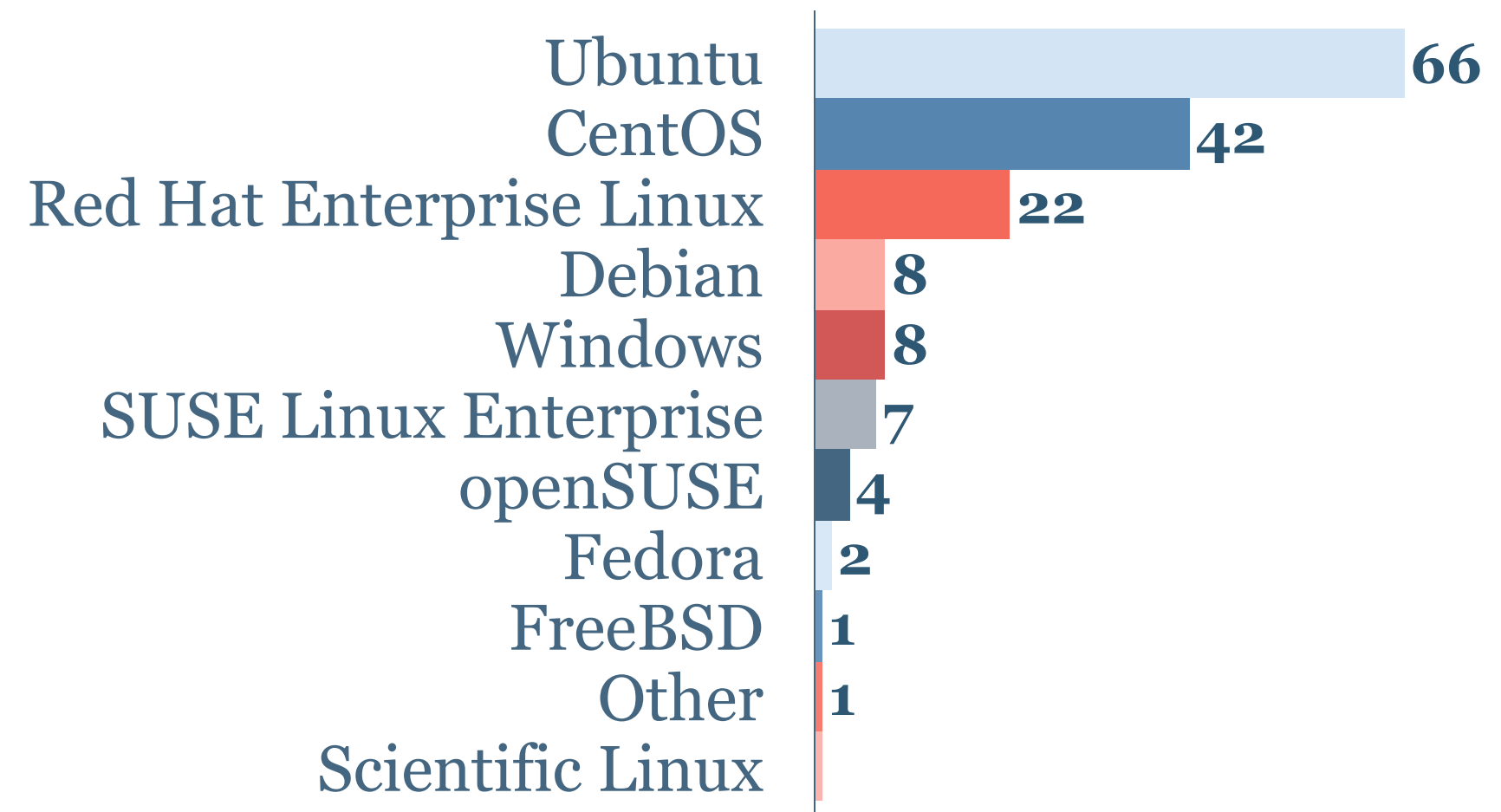


API Format

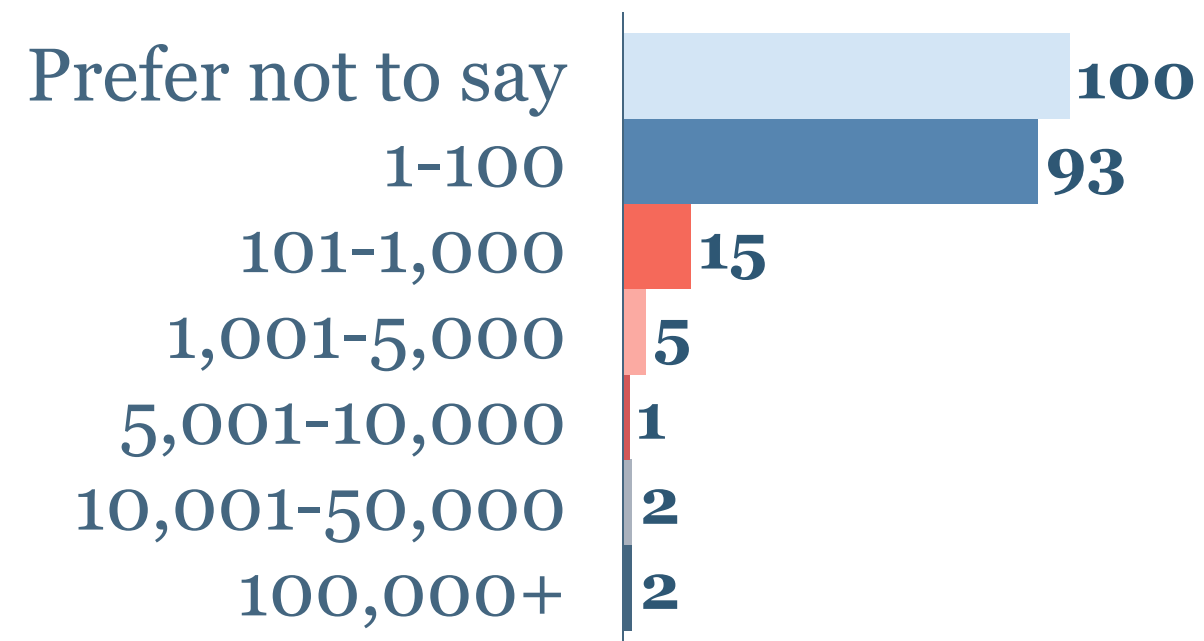


PROOF OF CONCEPT

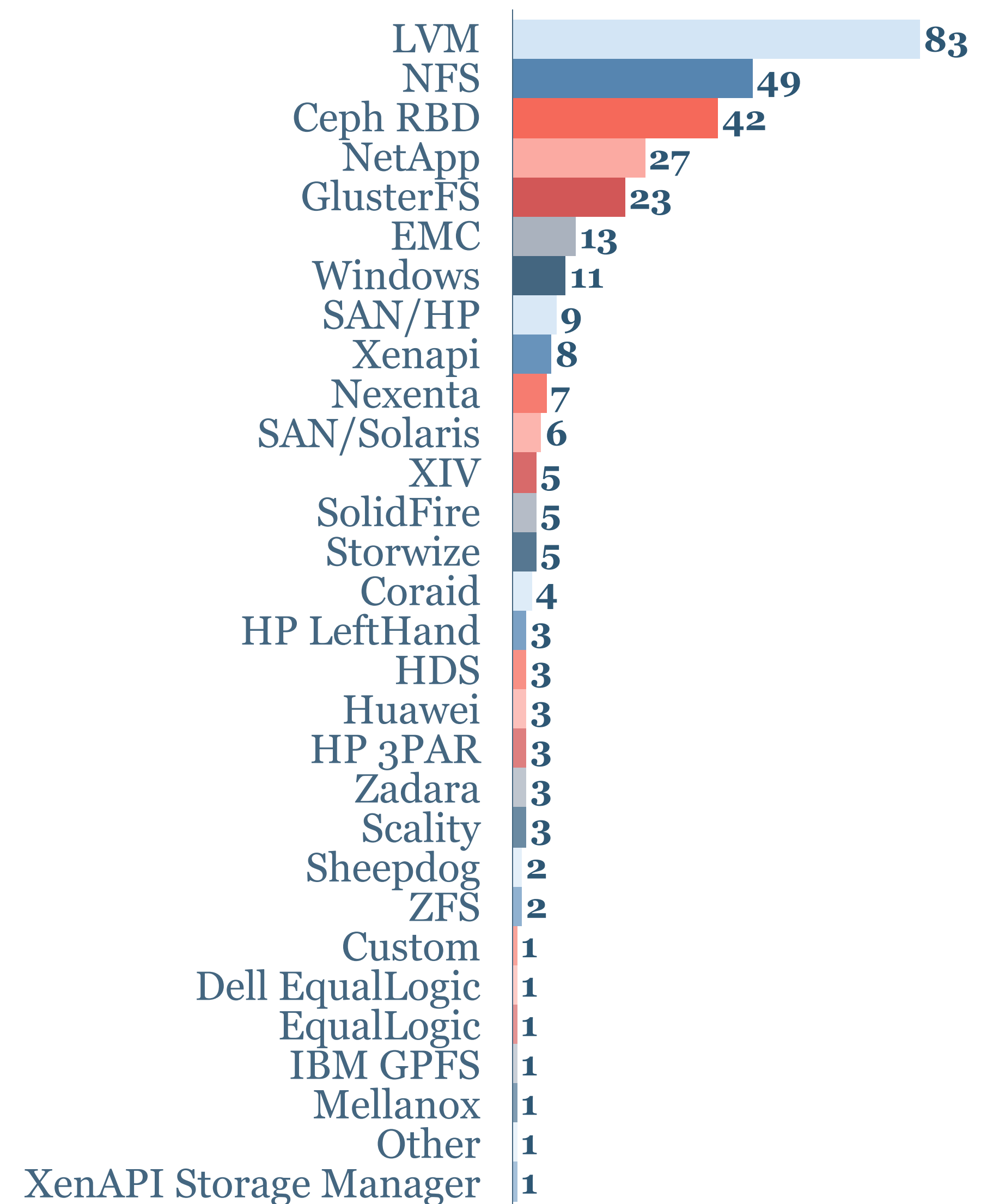
Operating System



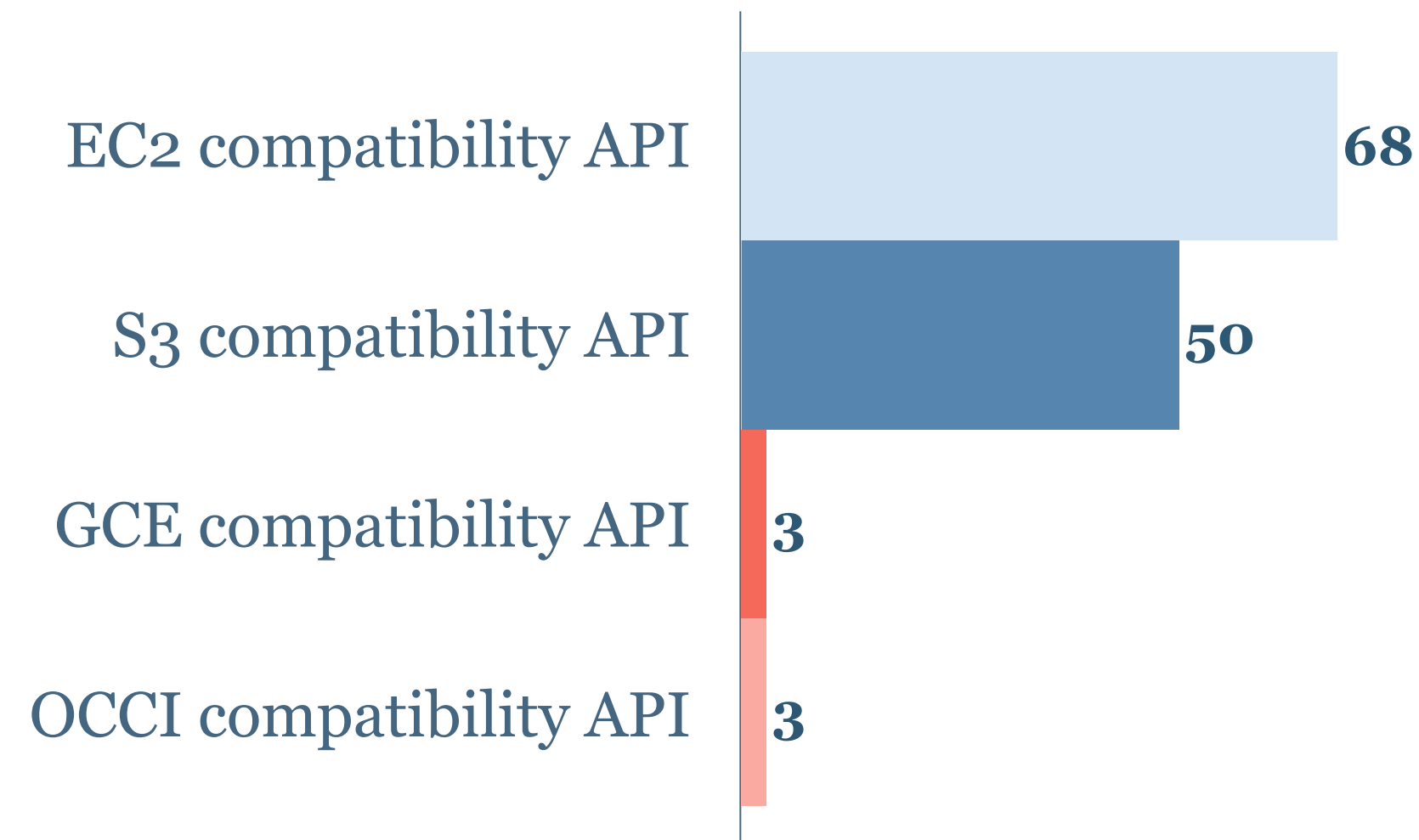
of users



Block Storage Drivers

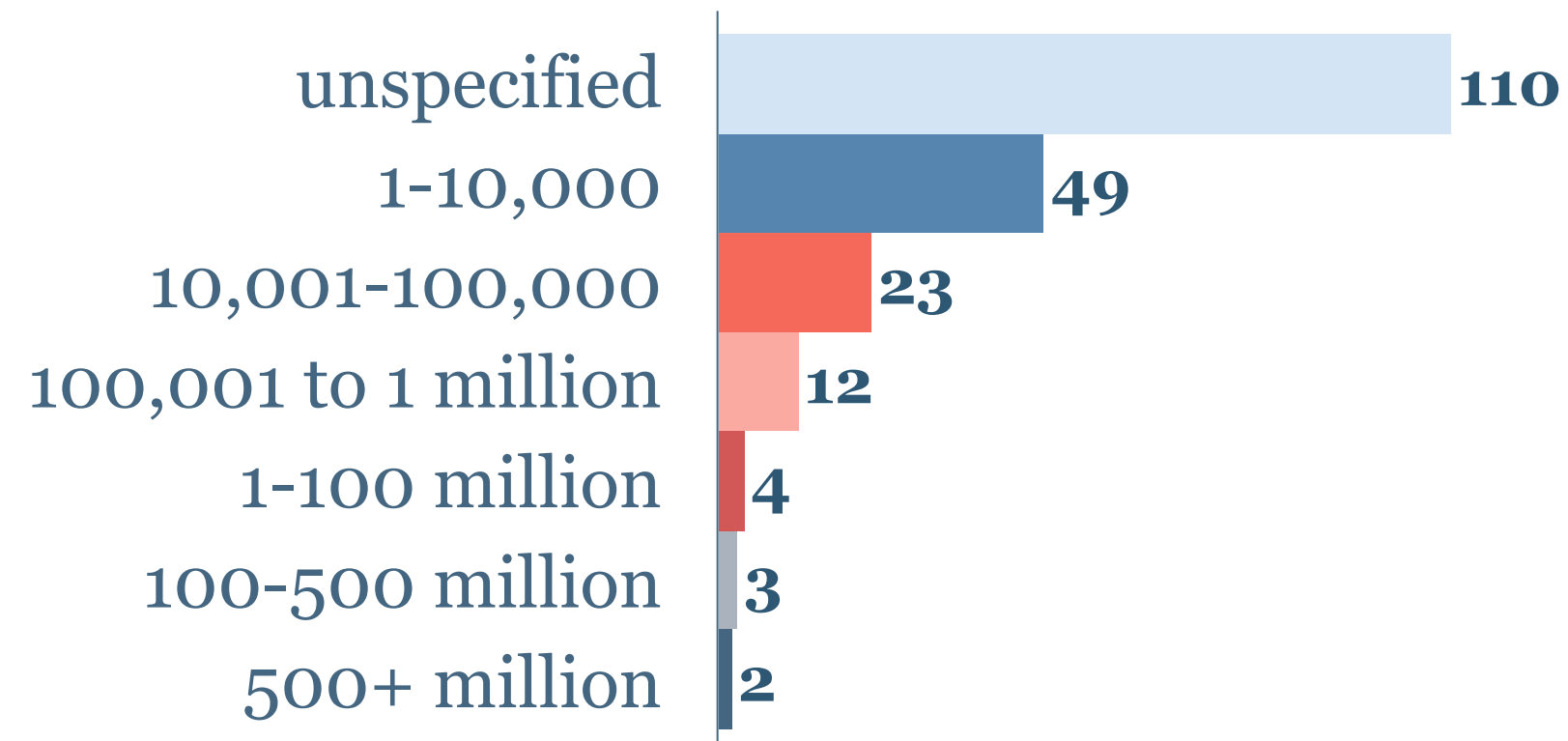


Compatibility APIs

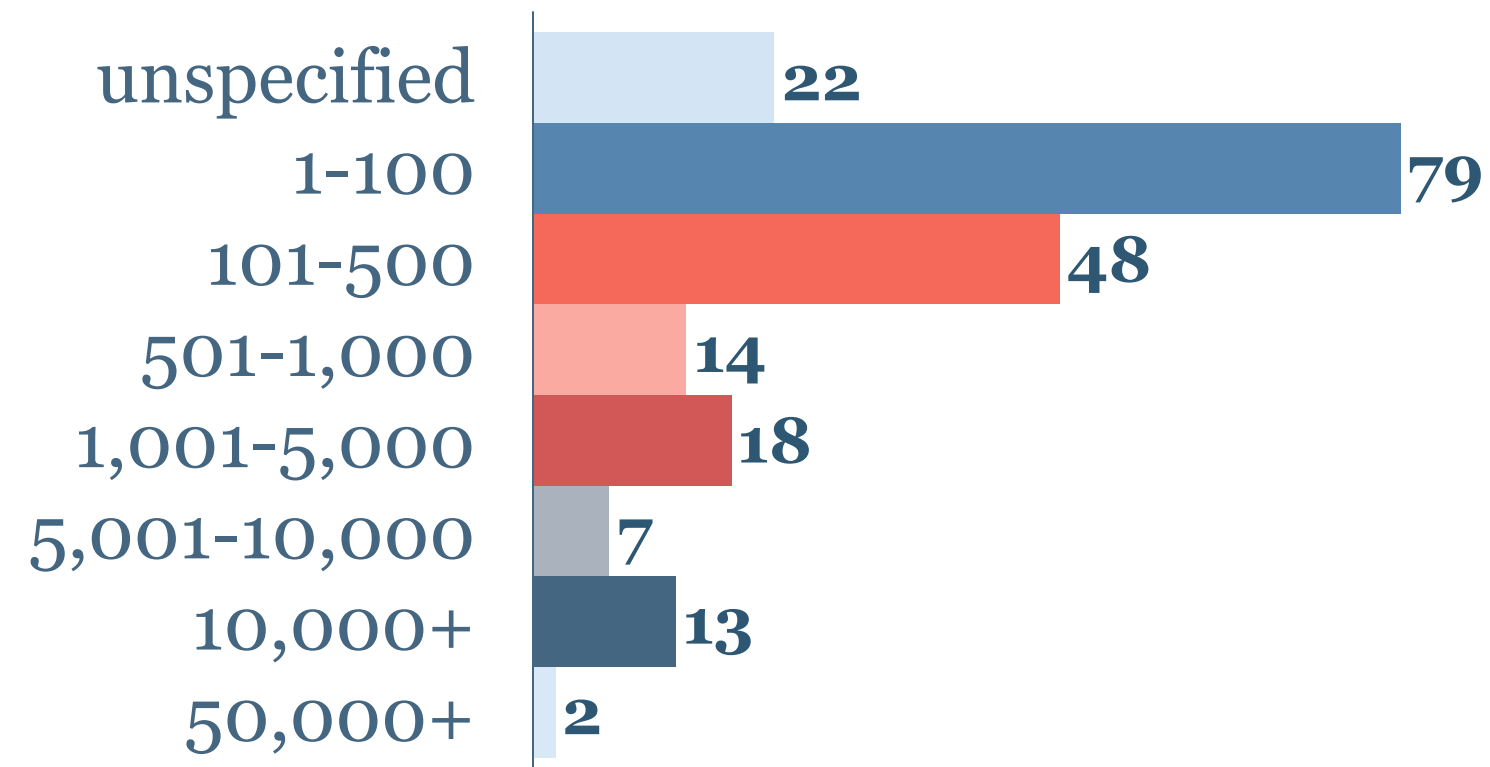


PRODUCTION

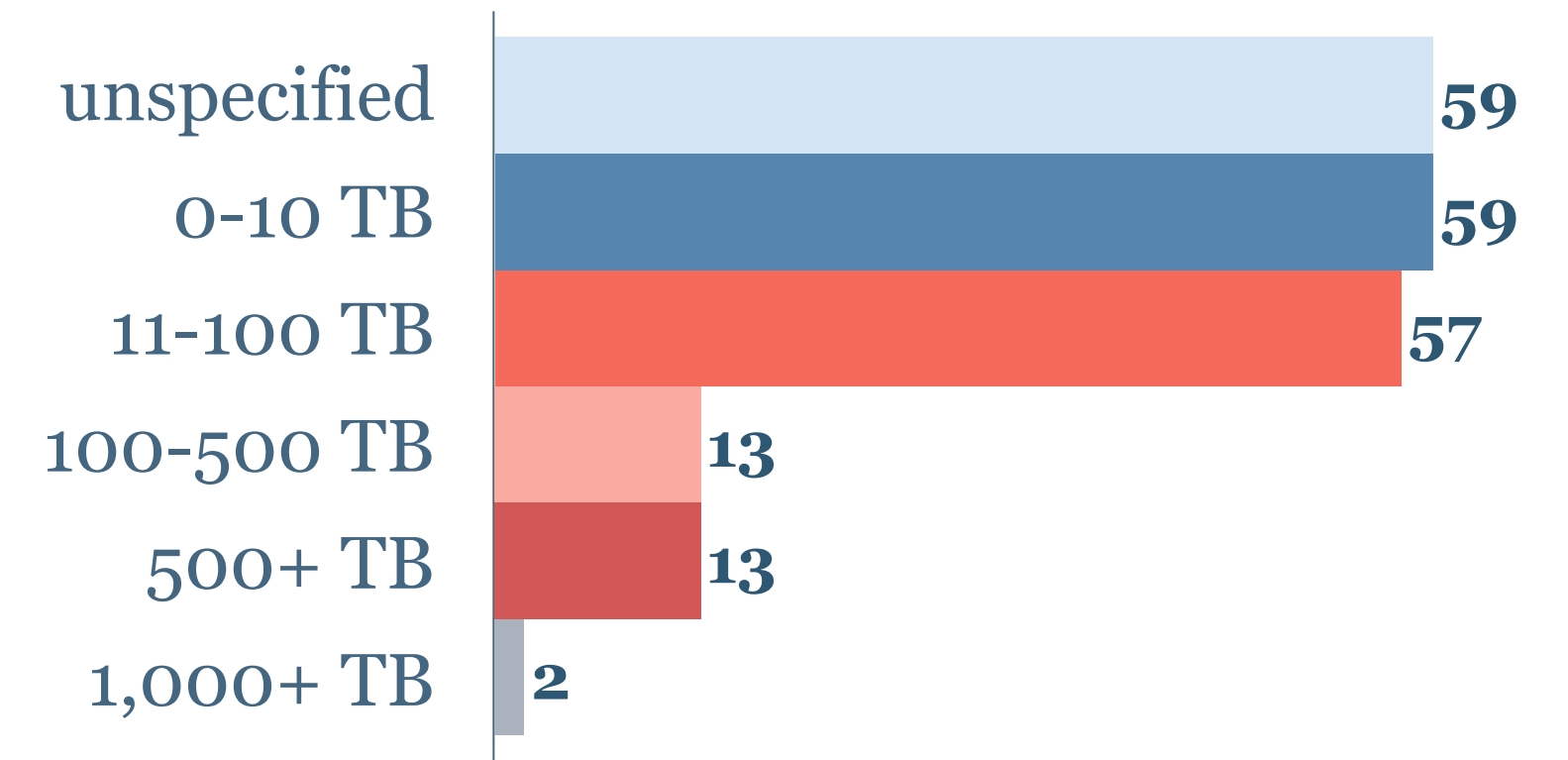
of objects



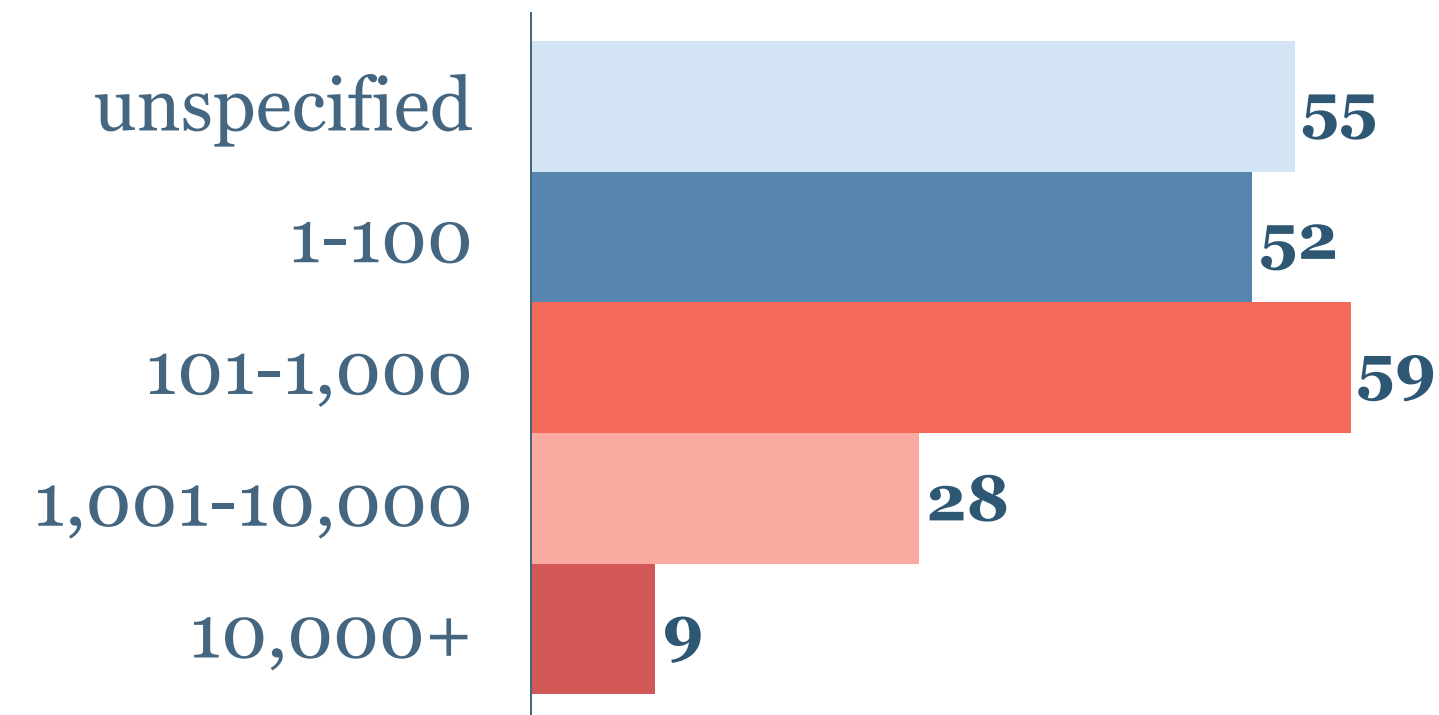
of cores



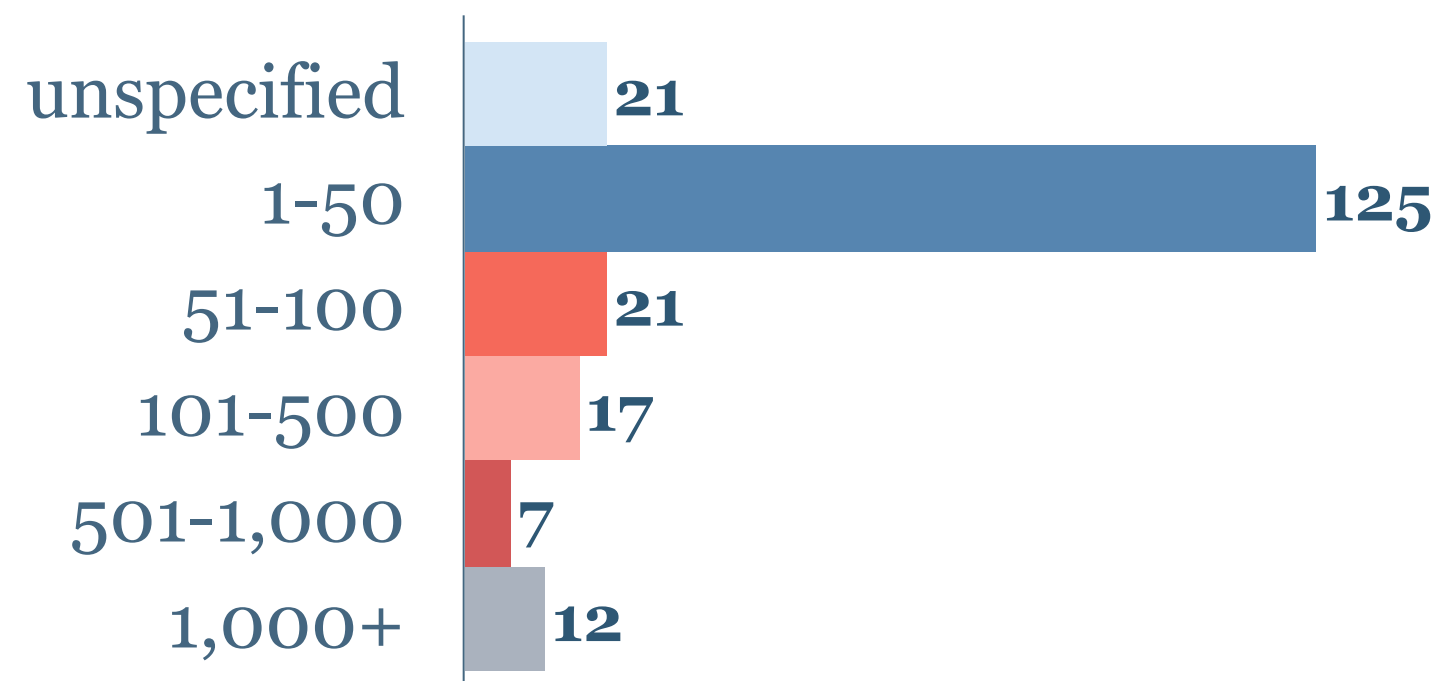
Block Storage Size



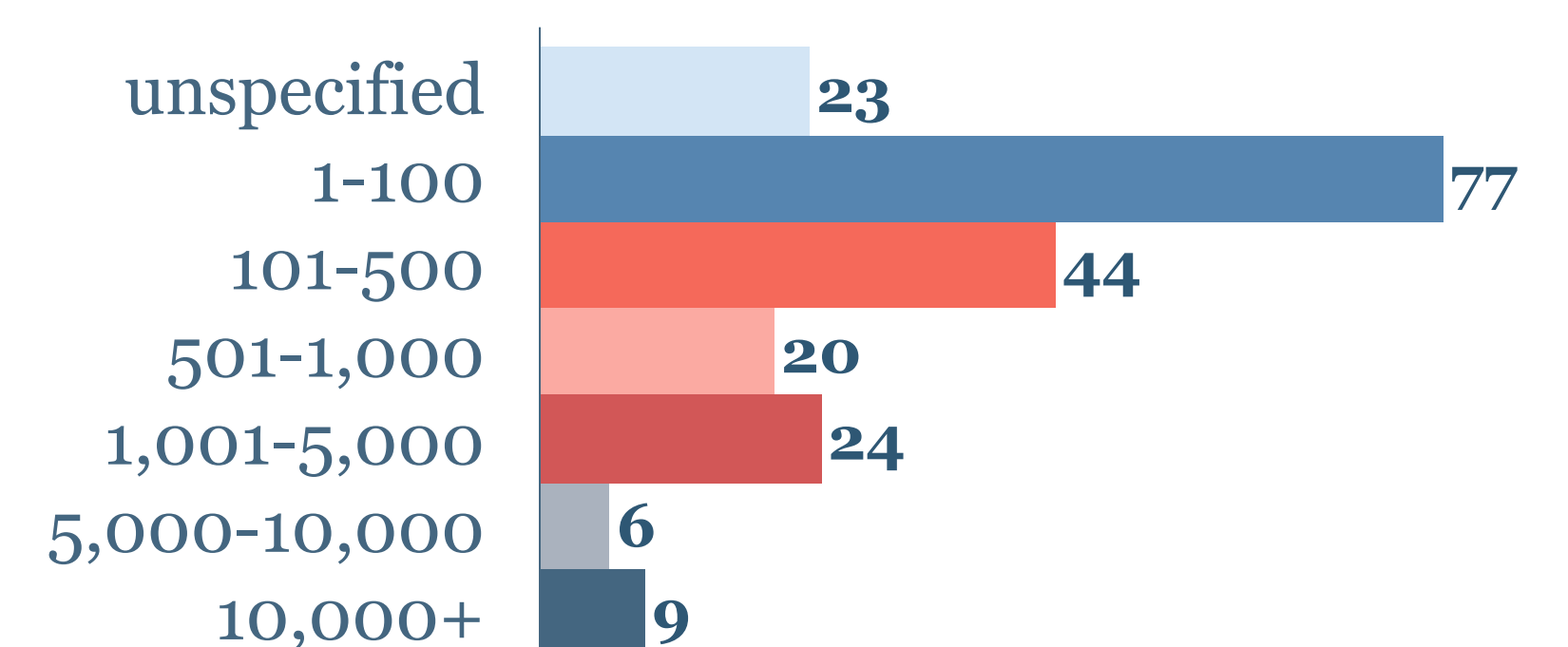
of IPs



of compute nodes

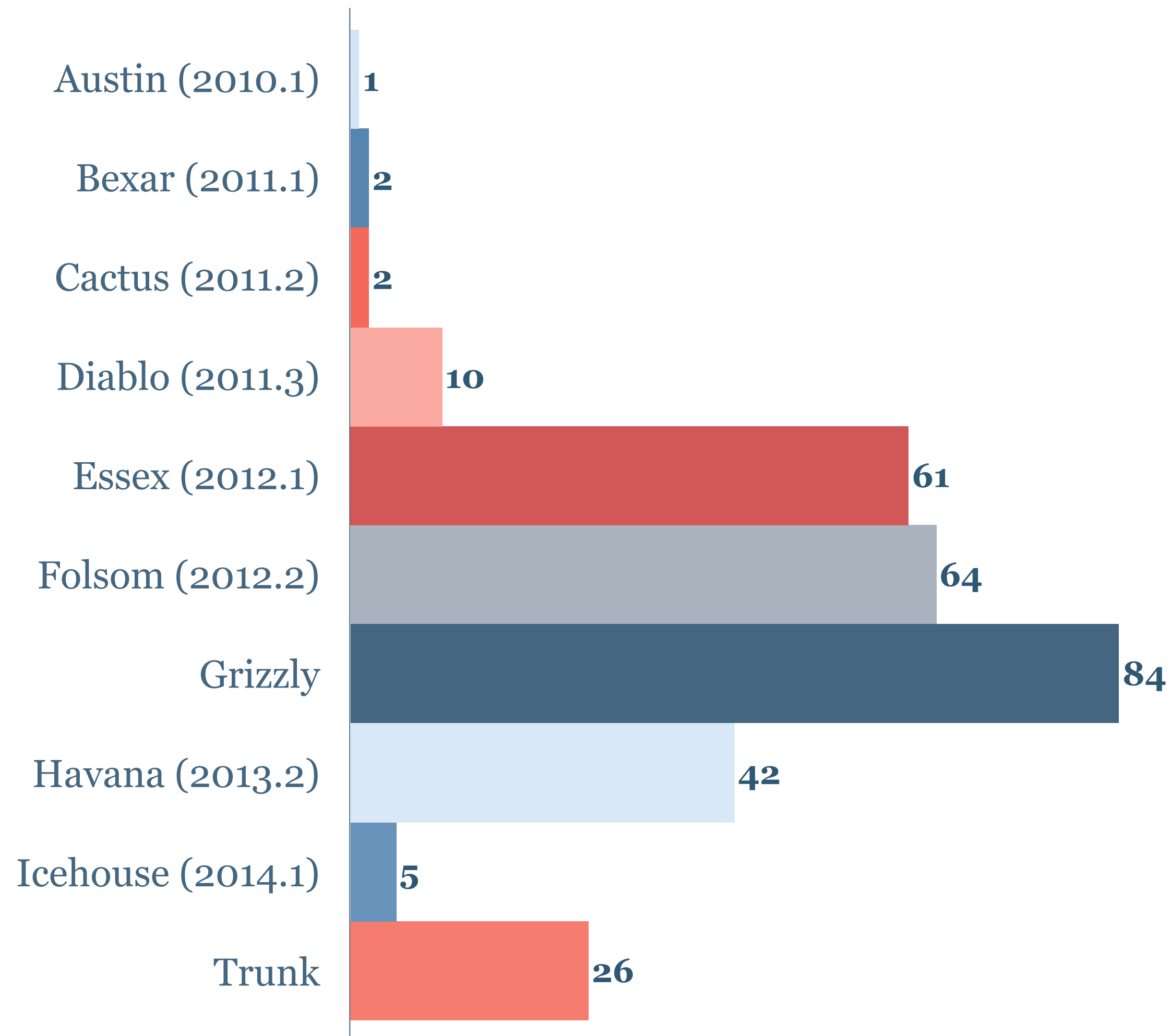


of instances

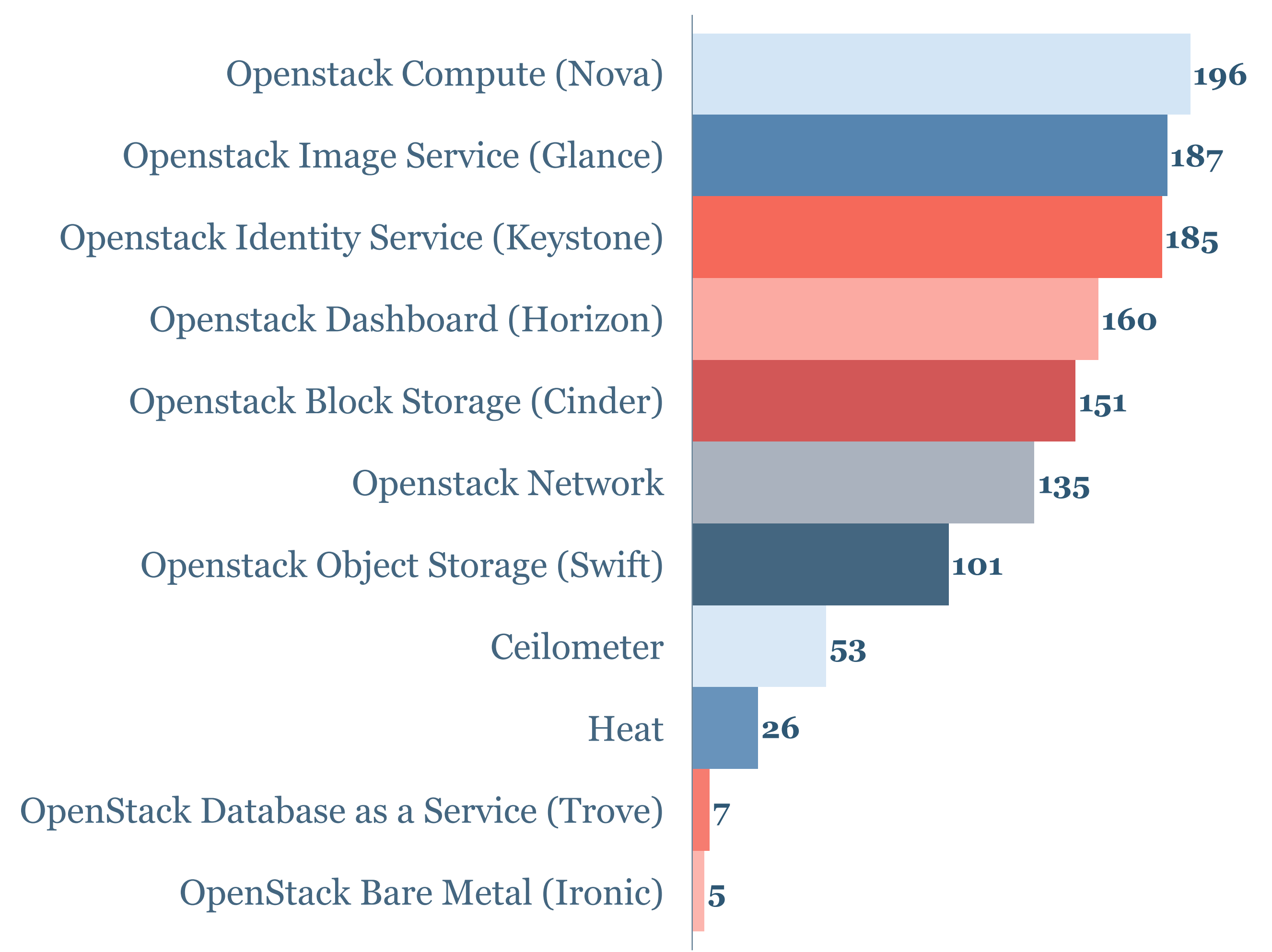


PRODUCTION

Release

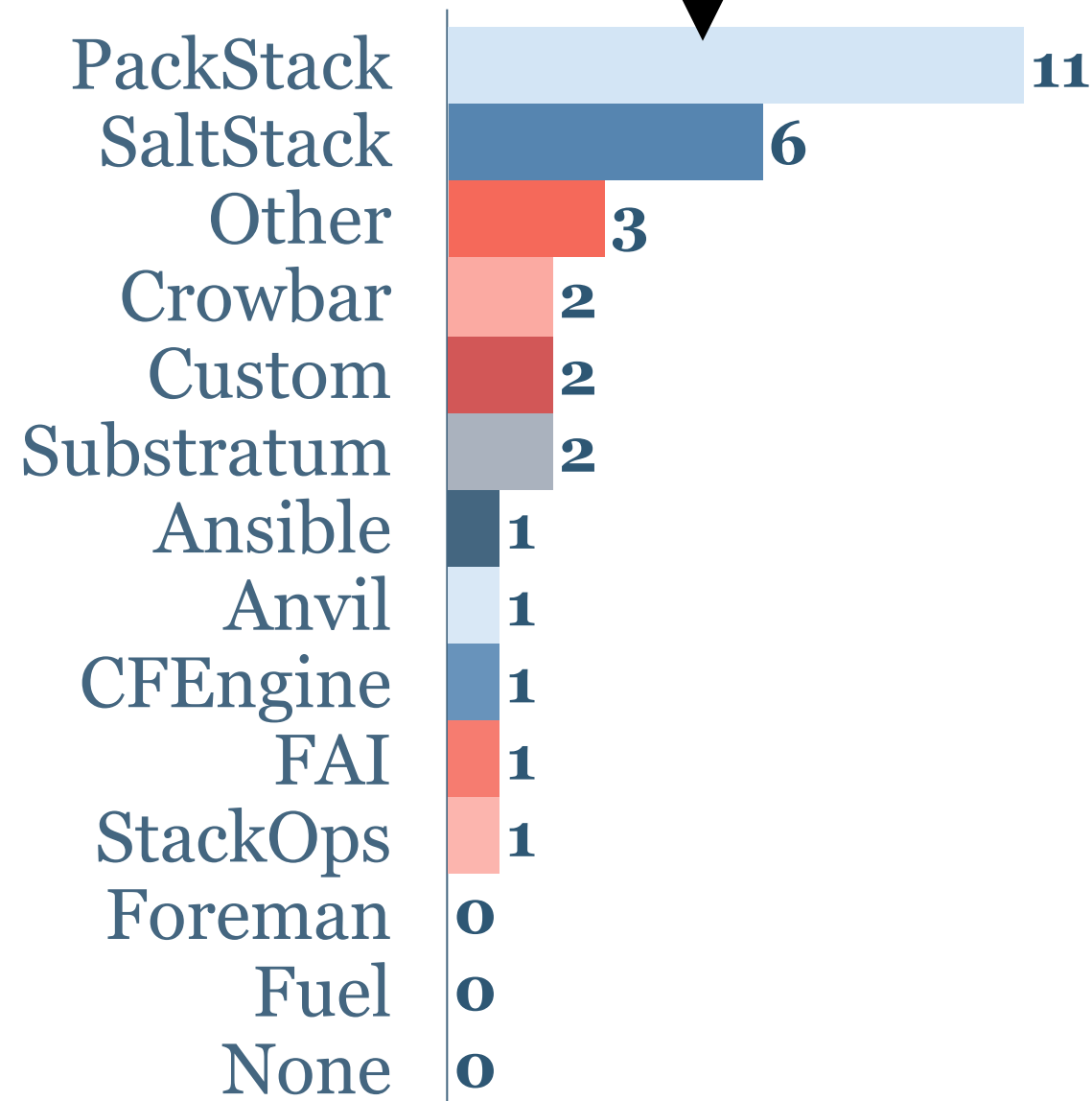
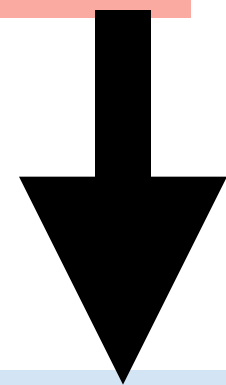
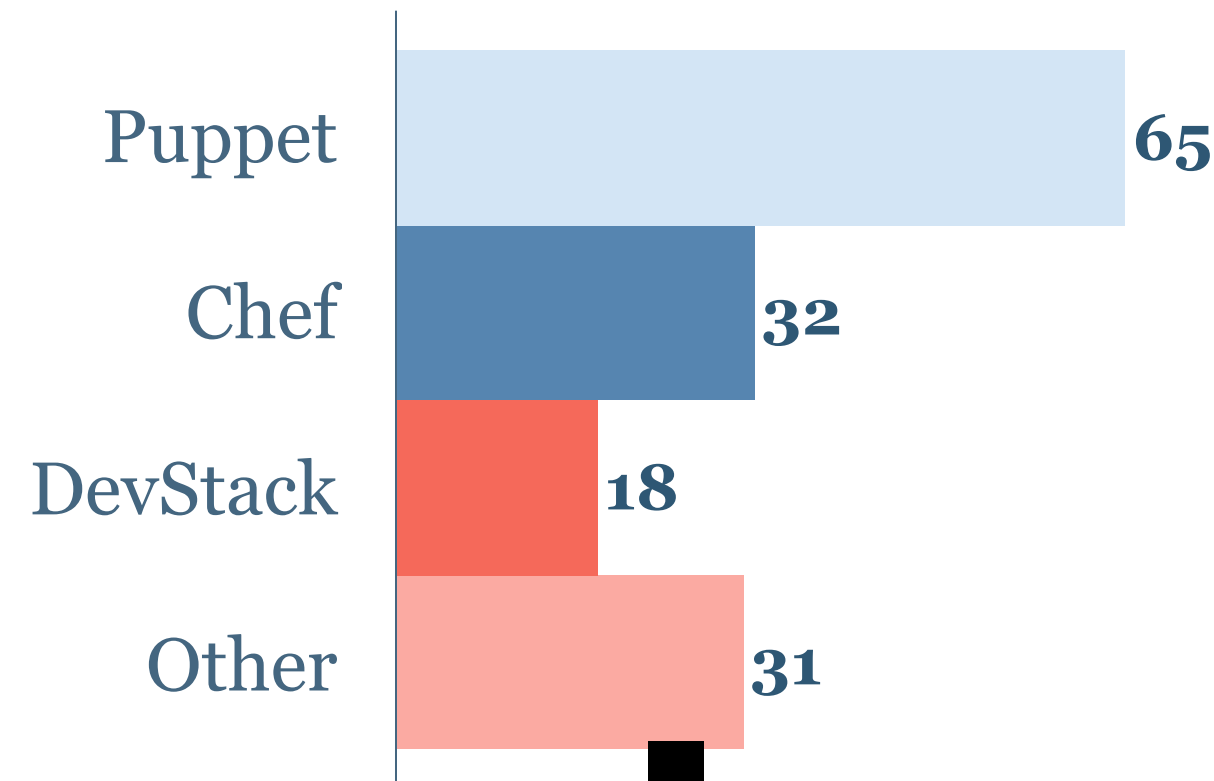


Services

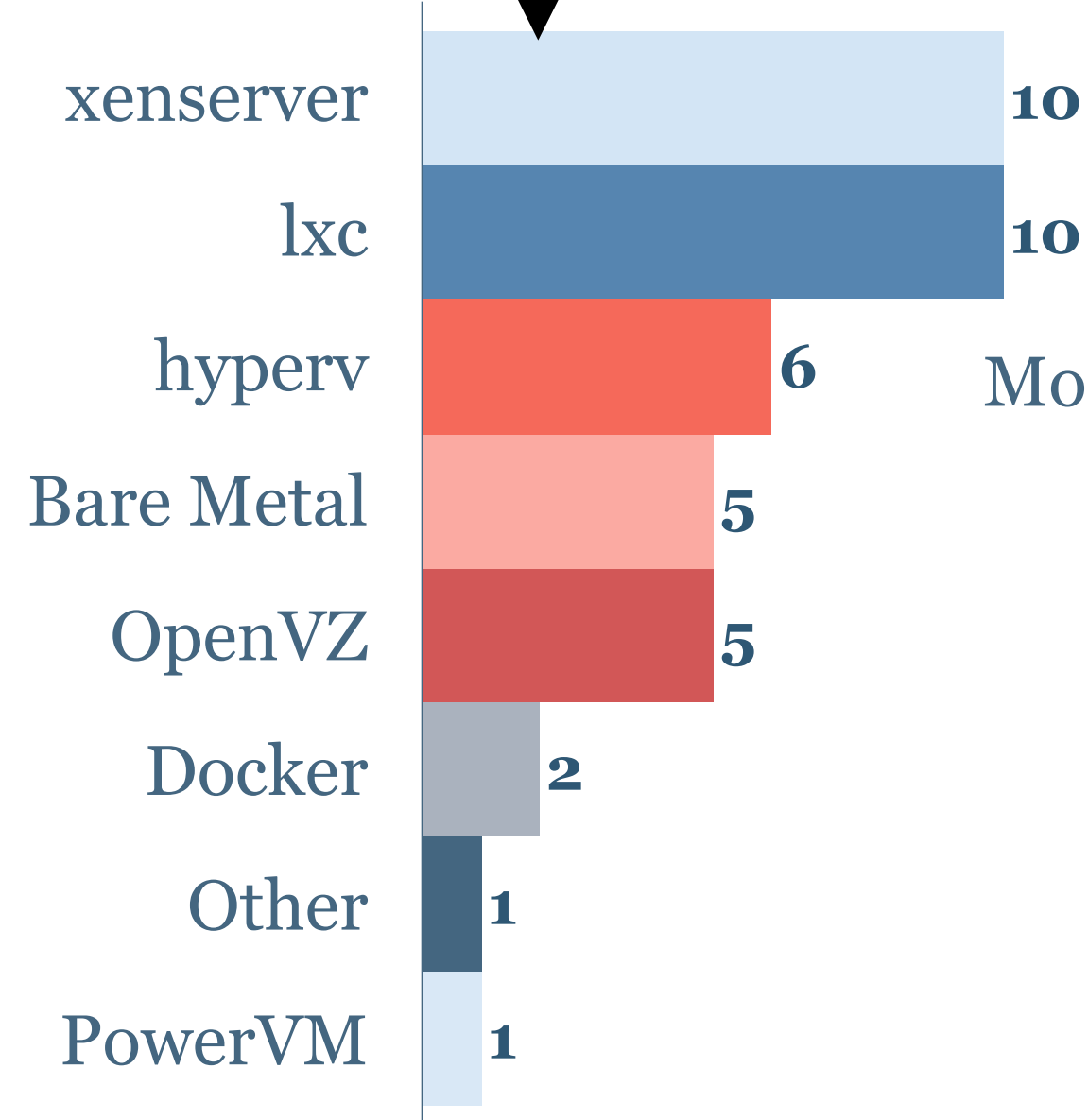
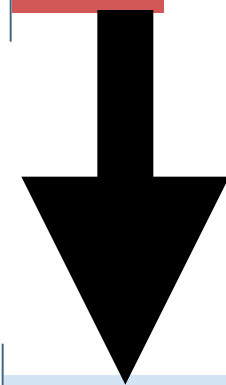
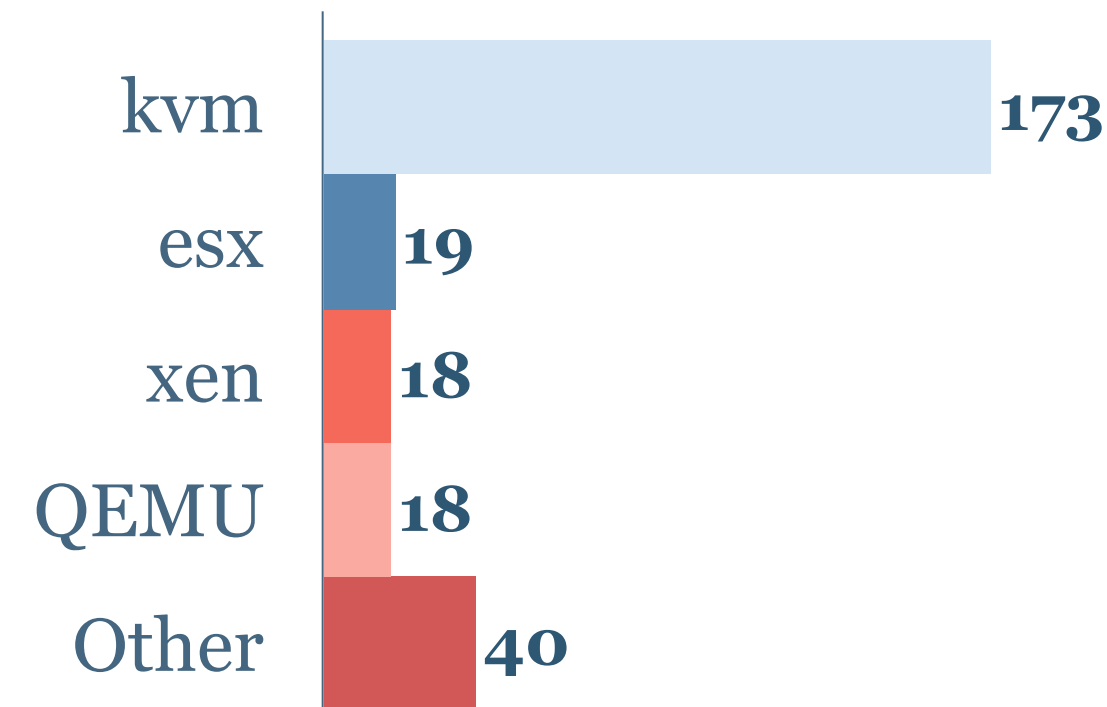


PRODUCTION

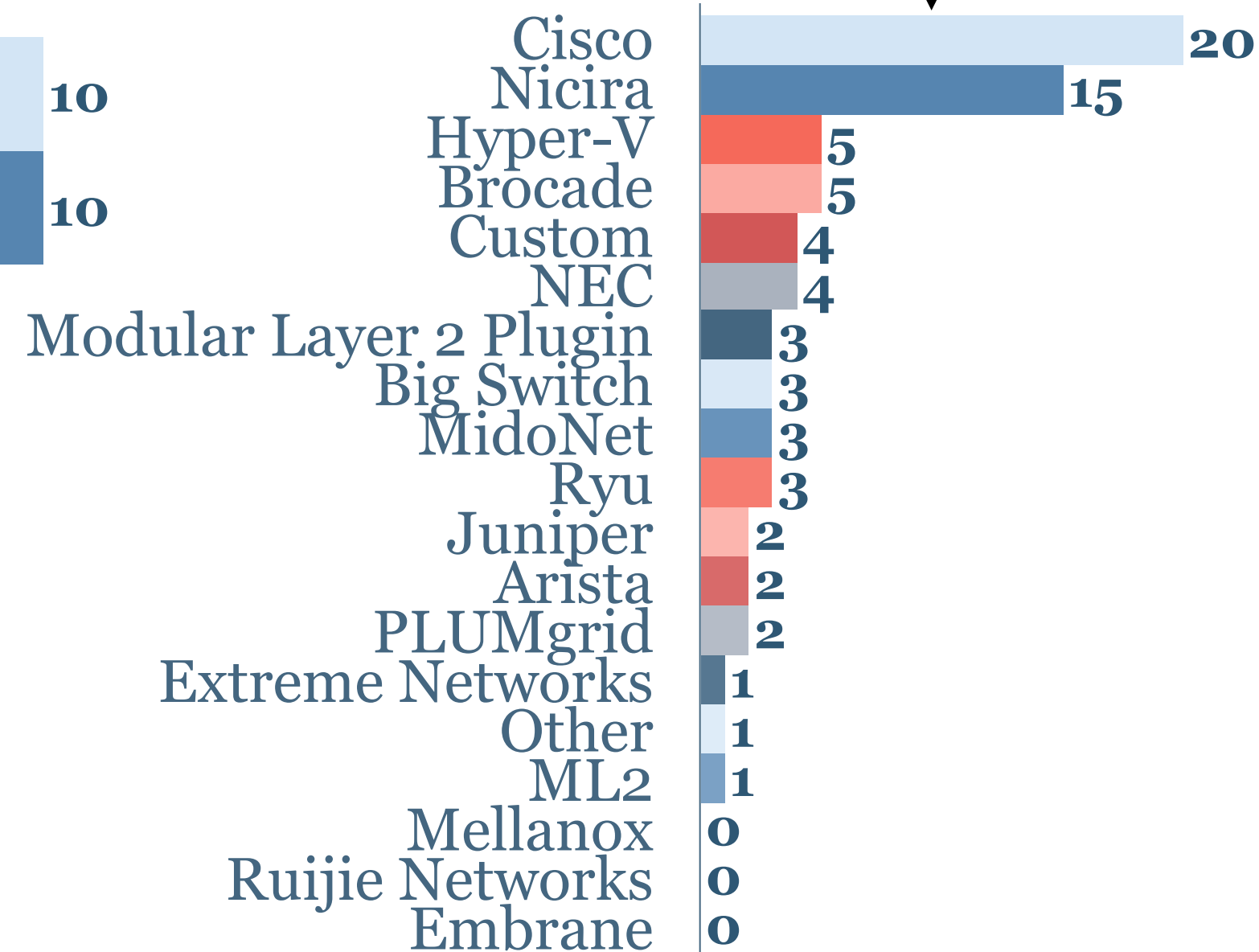
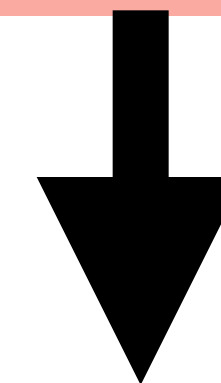
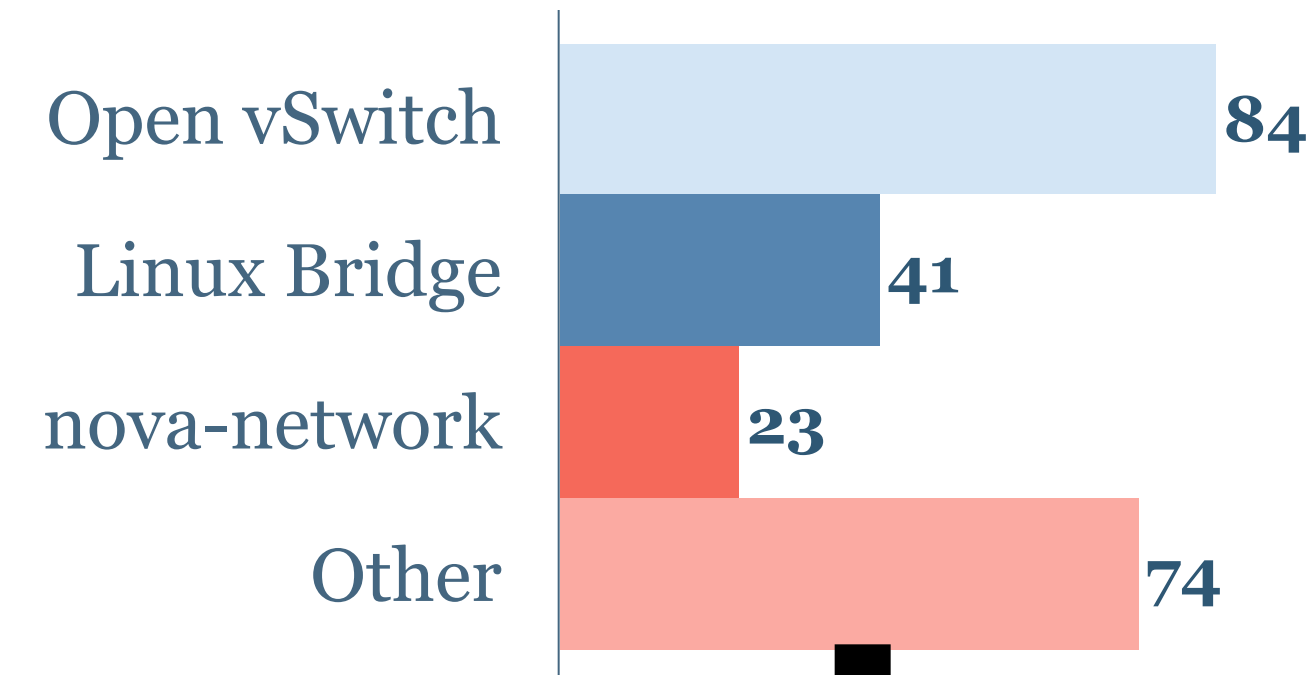
Deployment Tool



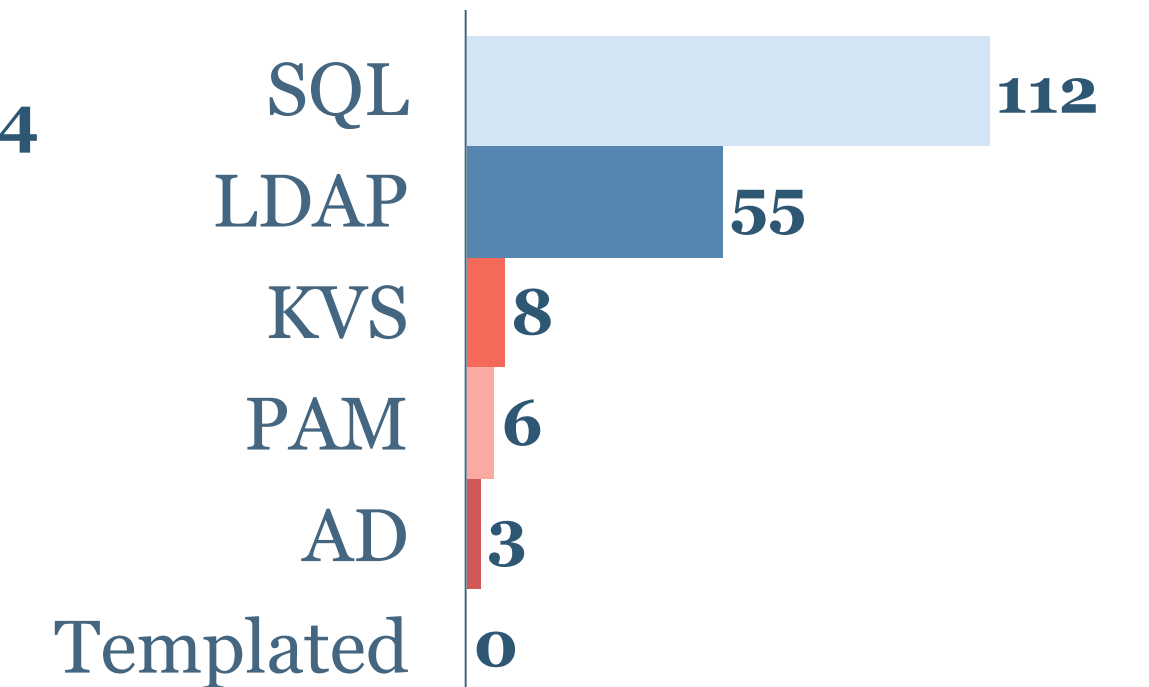
Hypervisor



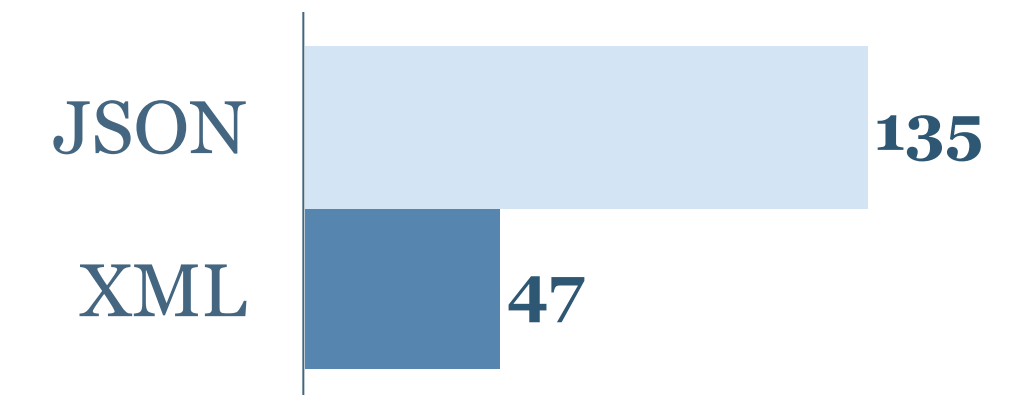
Network Driver



Identity Driver

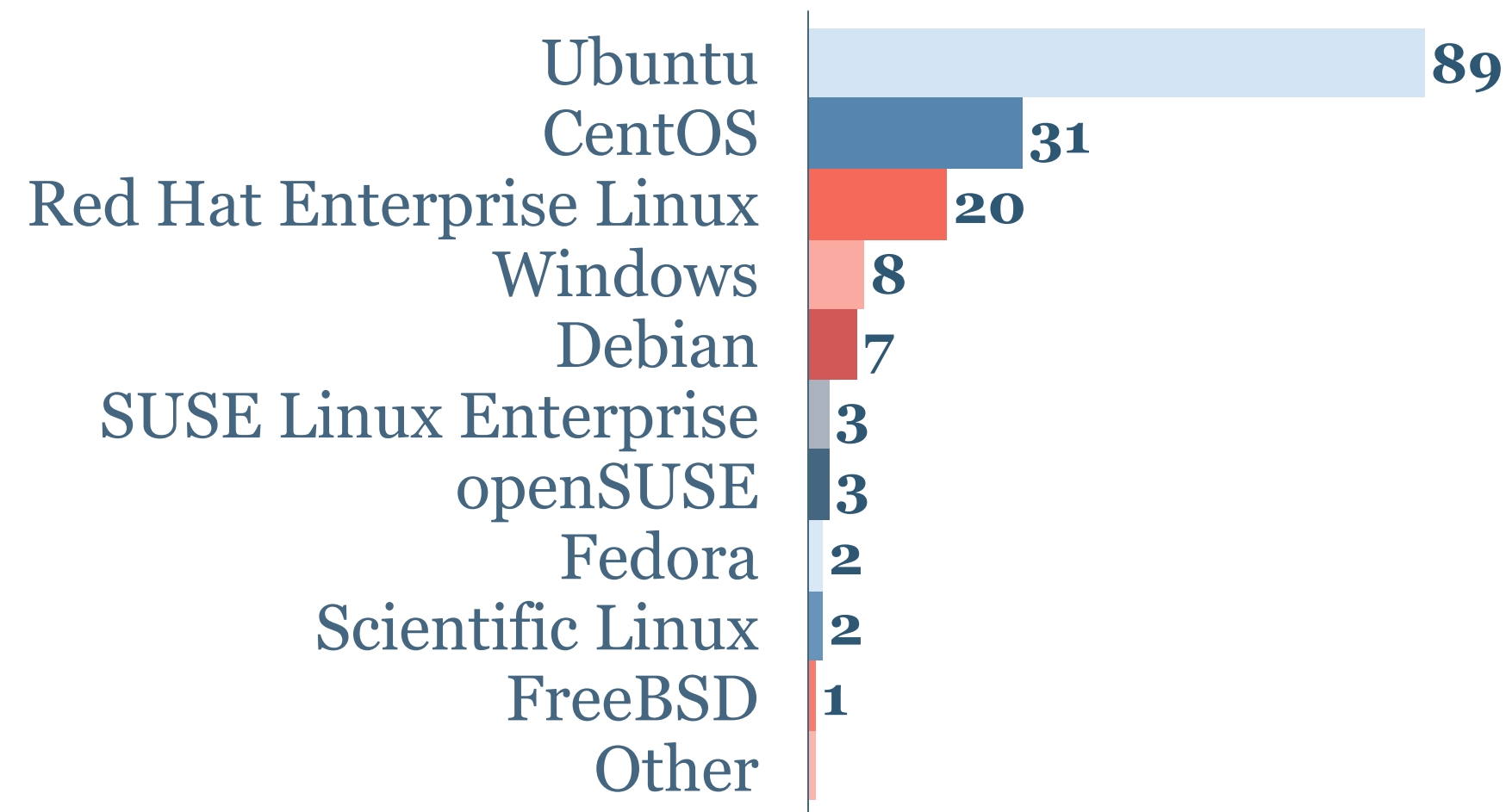


API Format

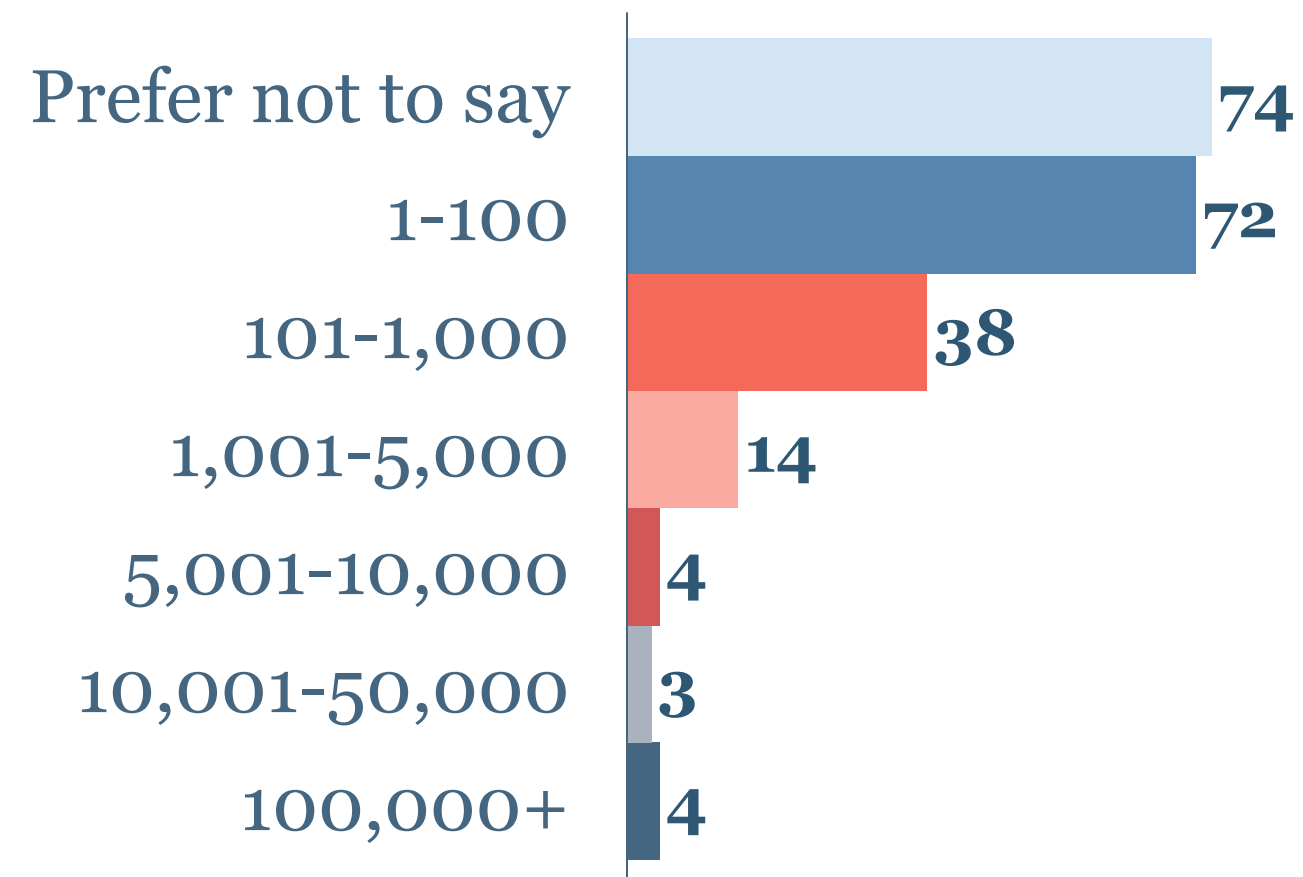


PRODUCTION

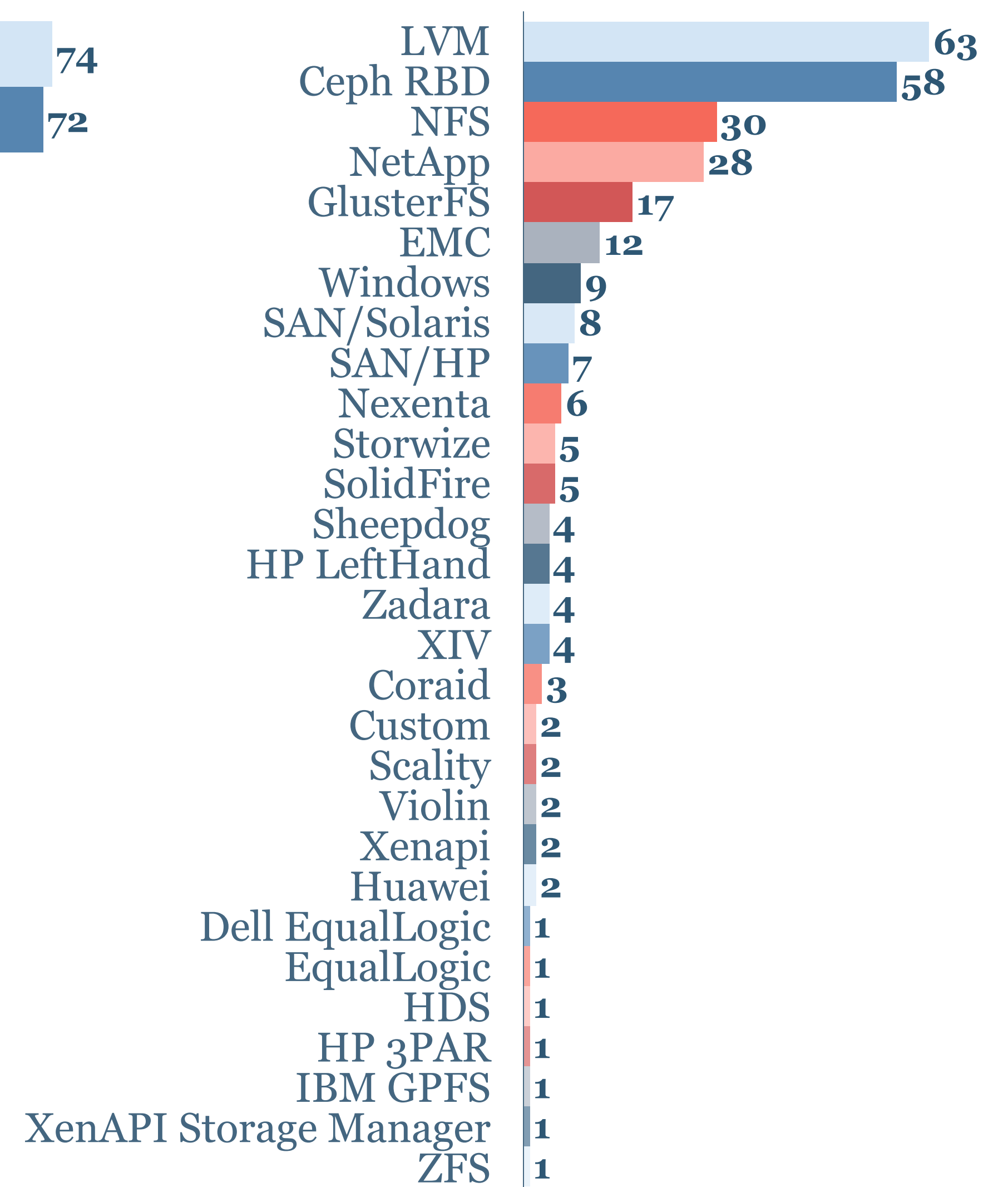
Operating System



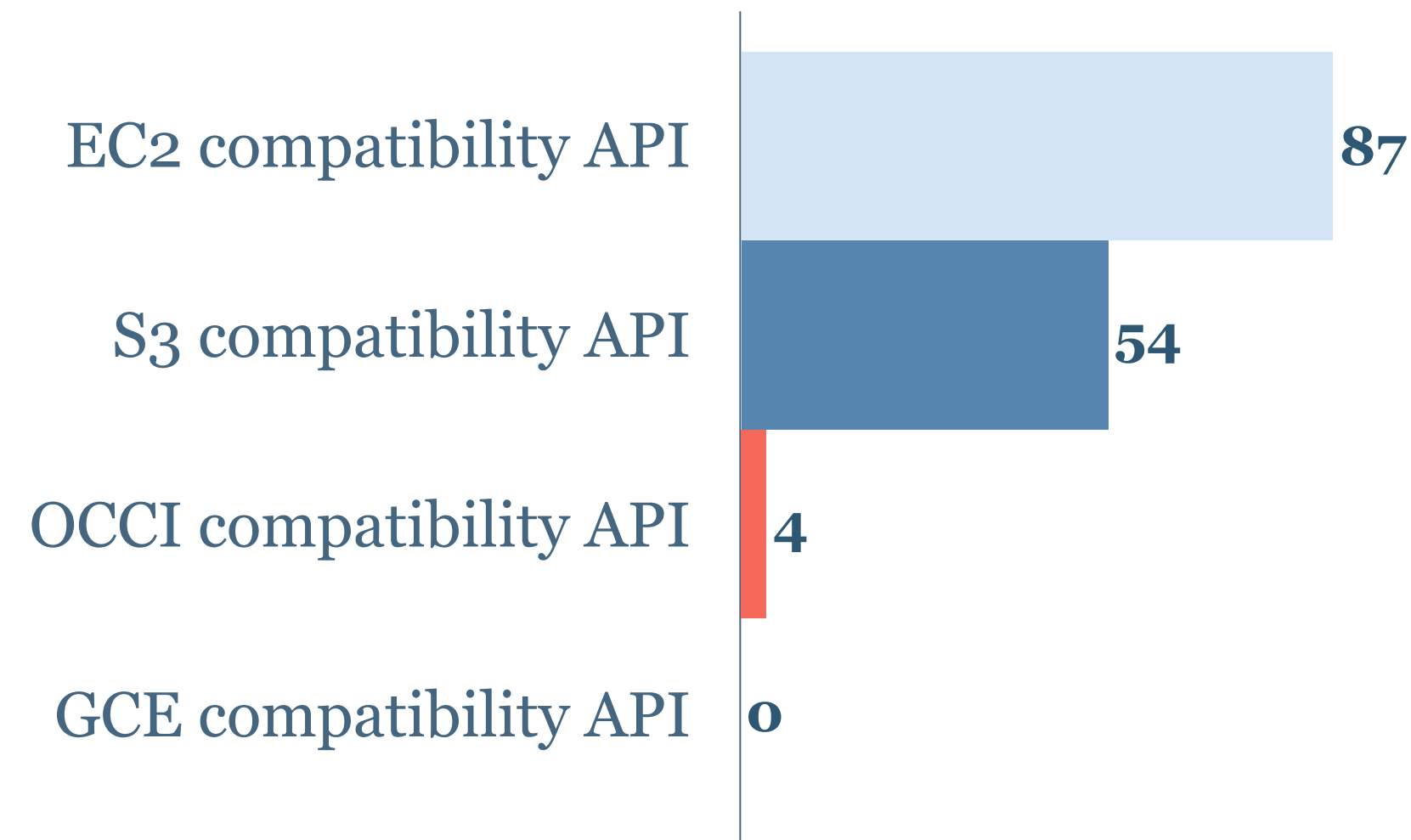
of users



Block Storage Drivers

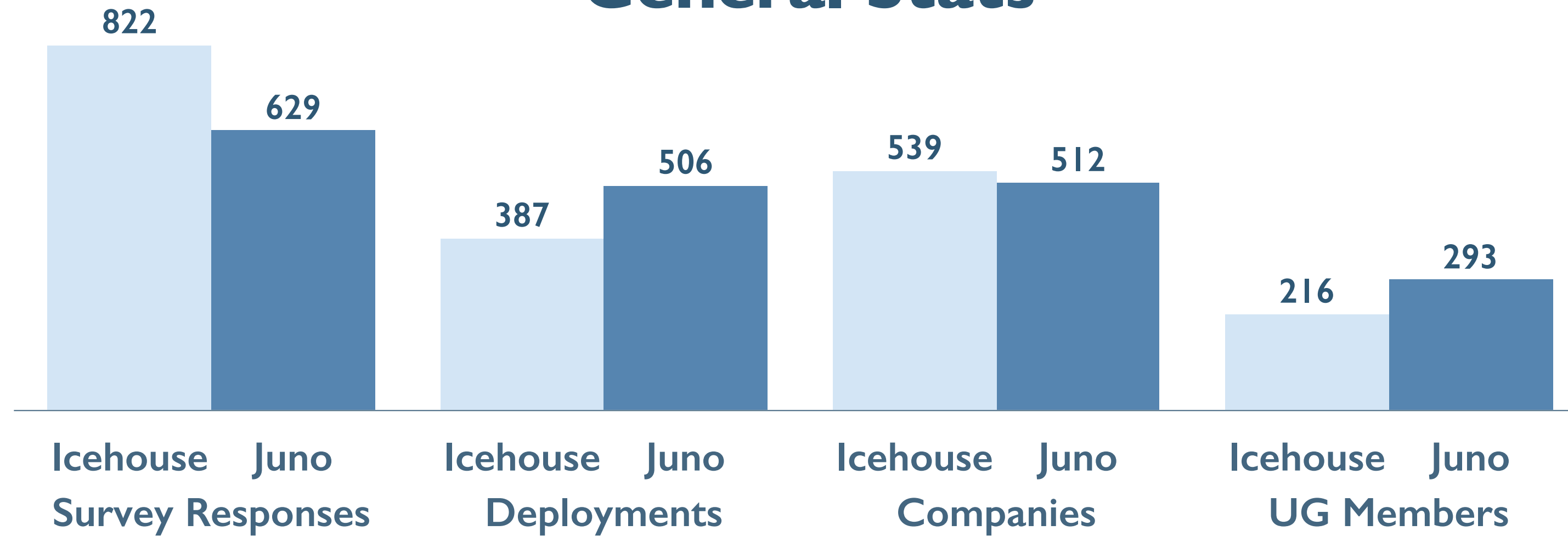


Compatibility APIs

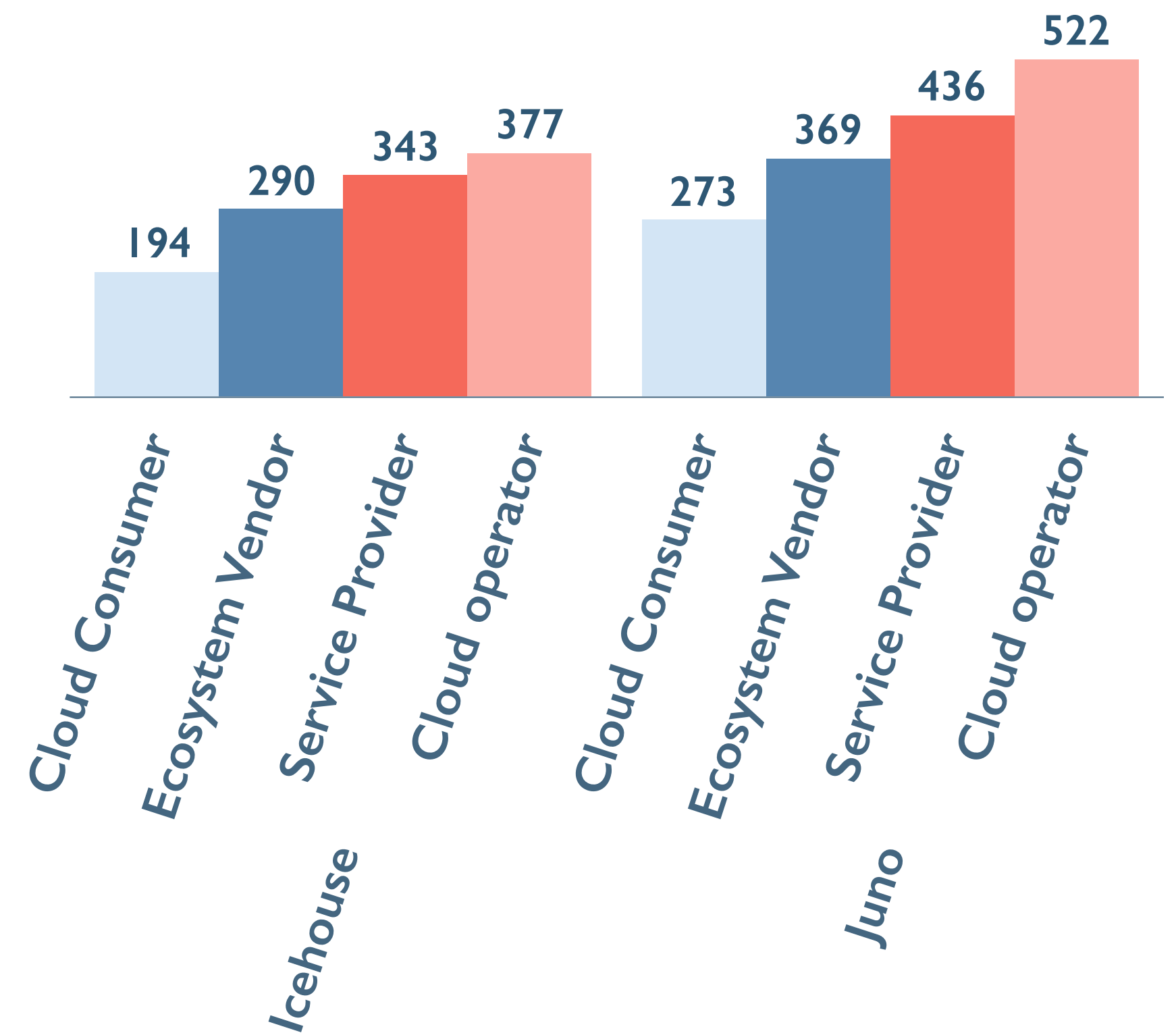


ICEHOUSE/JUNO COMPARISON

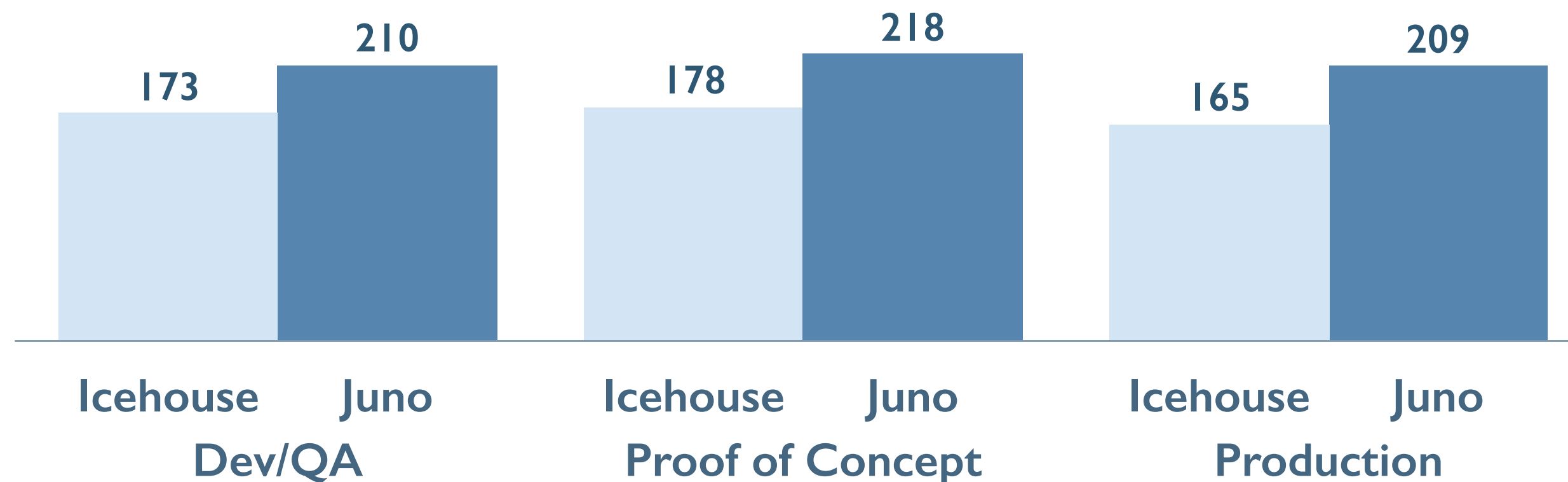
General Stats



User Types:

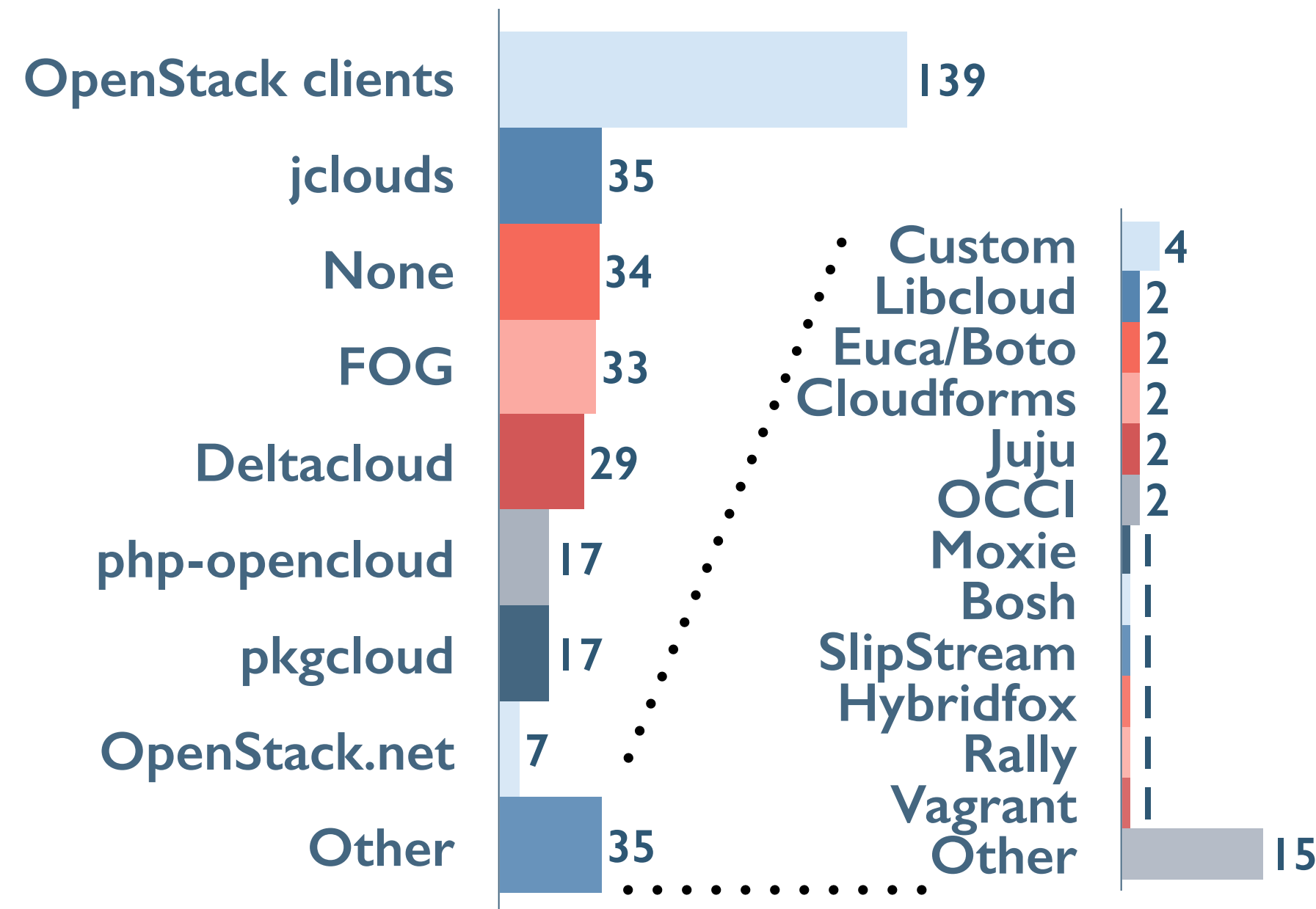


Stage of Deployment

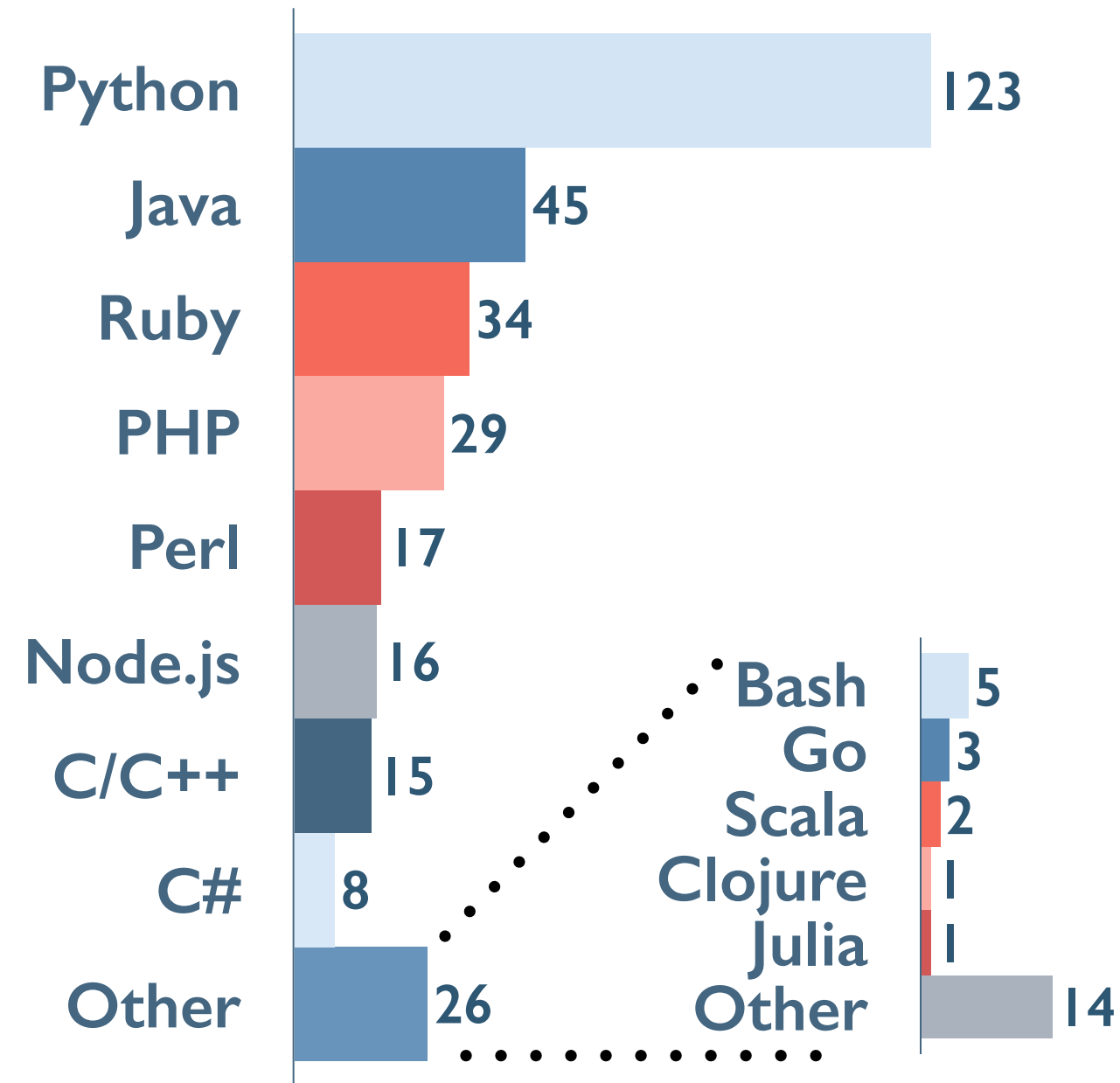


APP SURVEY

Application Libraries

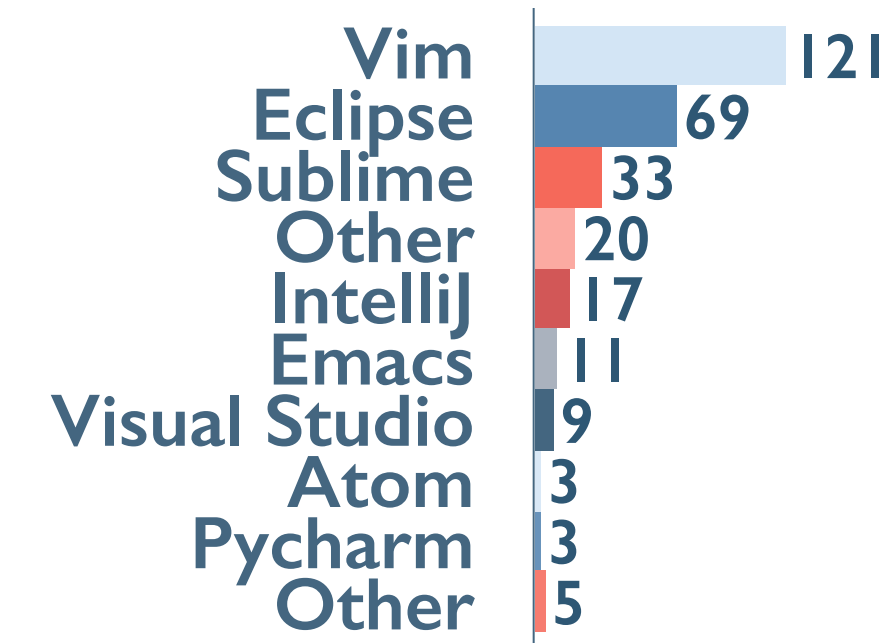


Languages

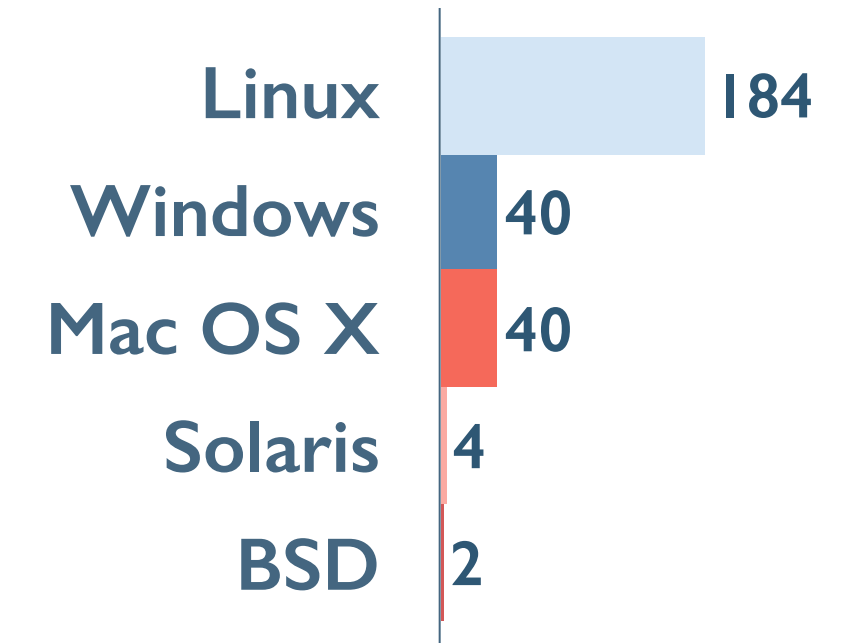


226 Survey Responses
71 Companies
81 UG Members

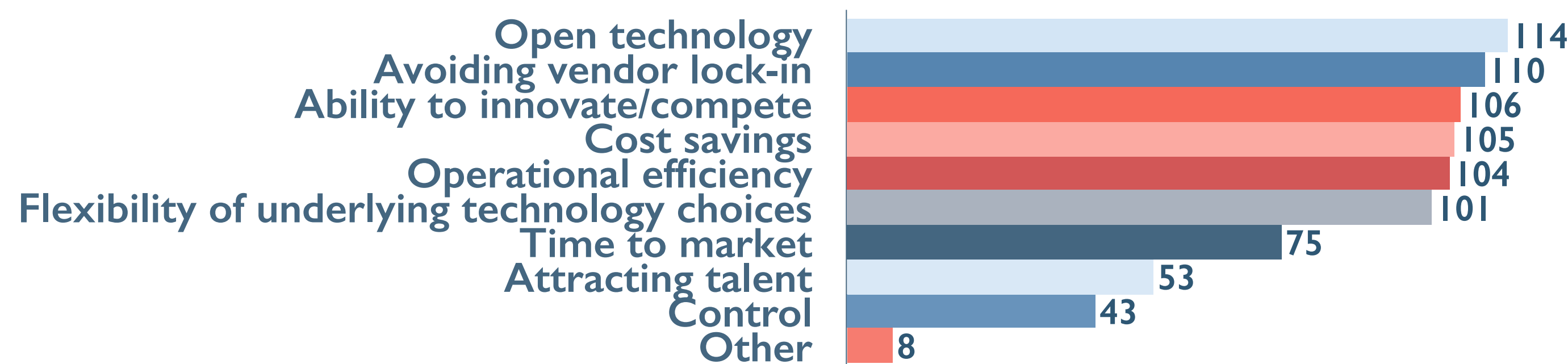
Developer Envs



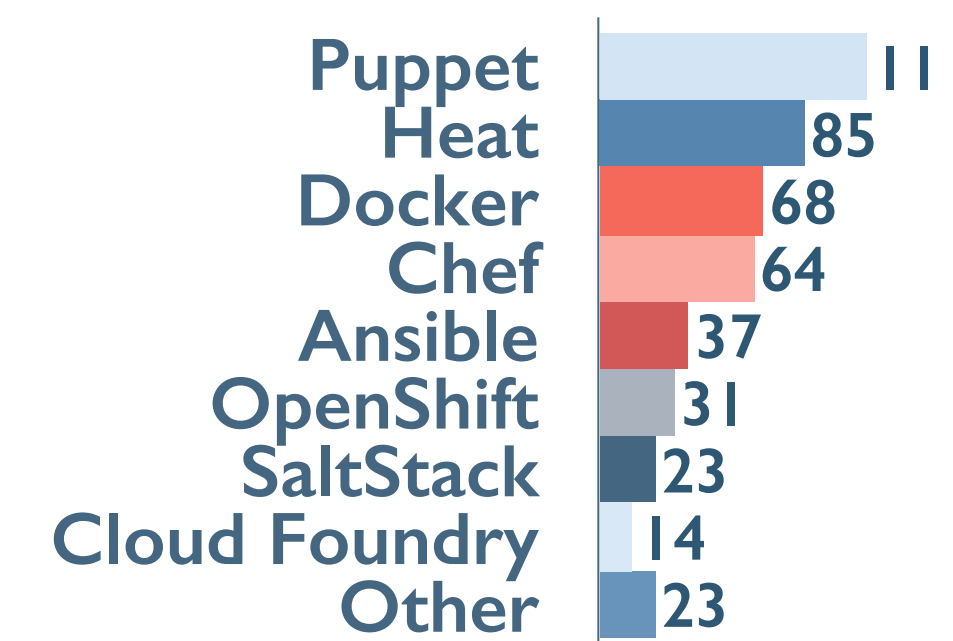
OS



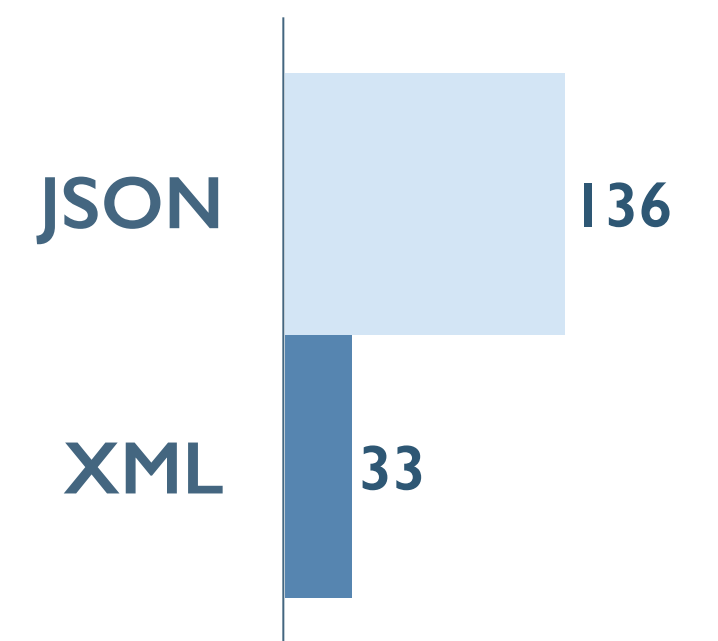
Business Drivers



Config Tools

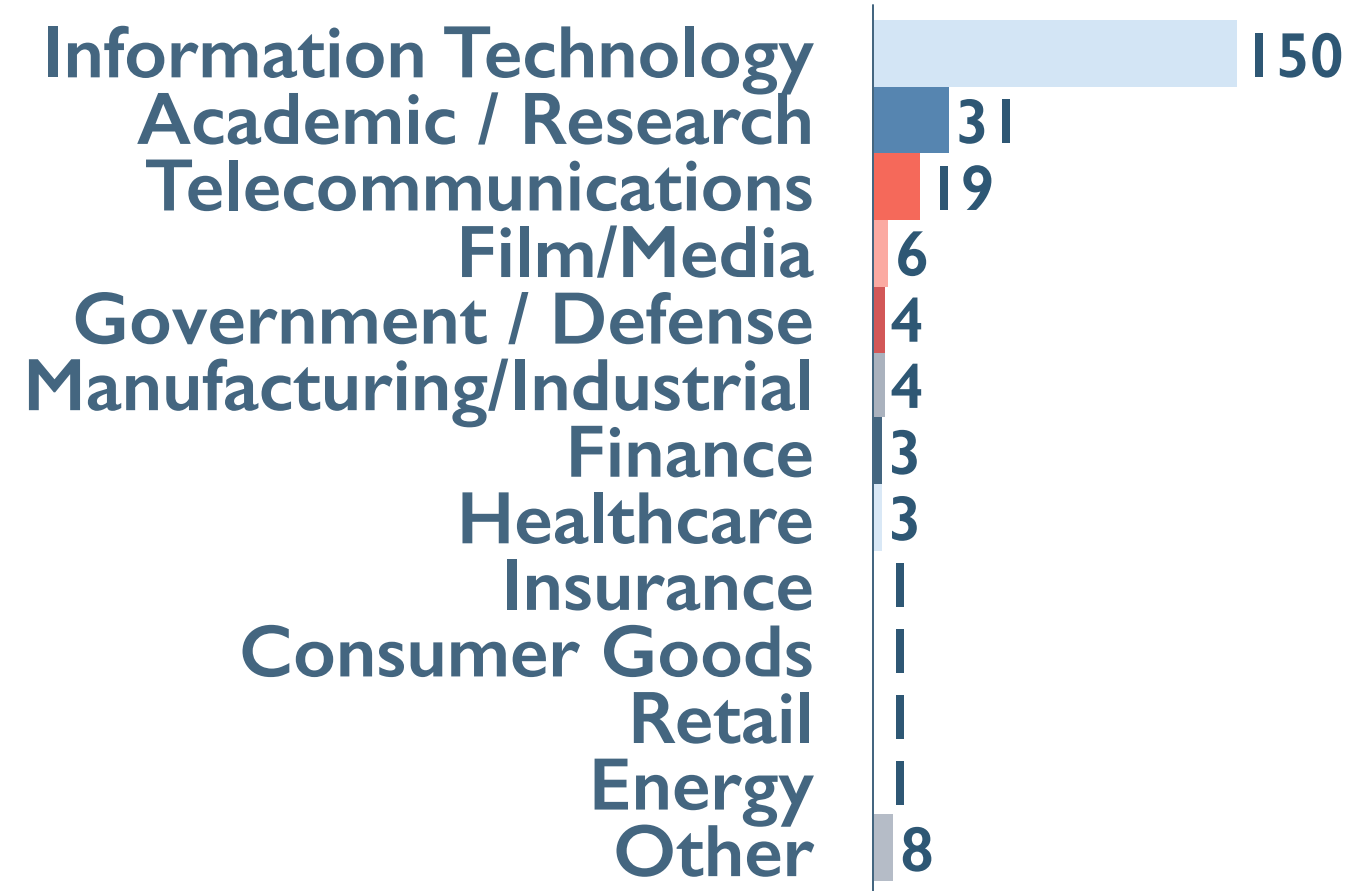


API Format

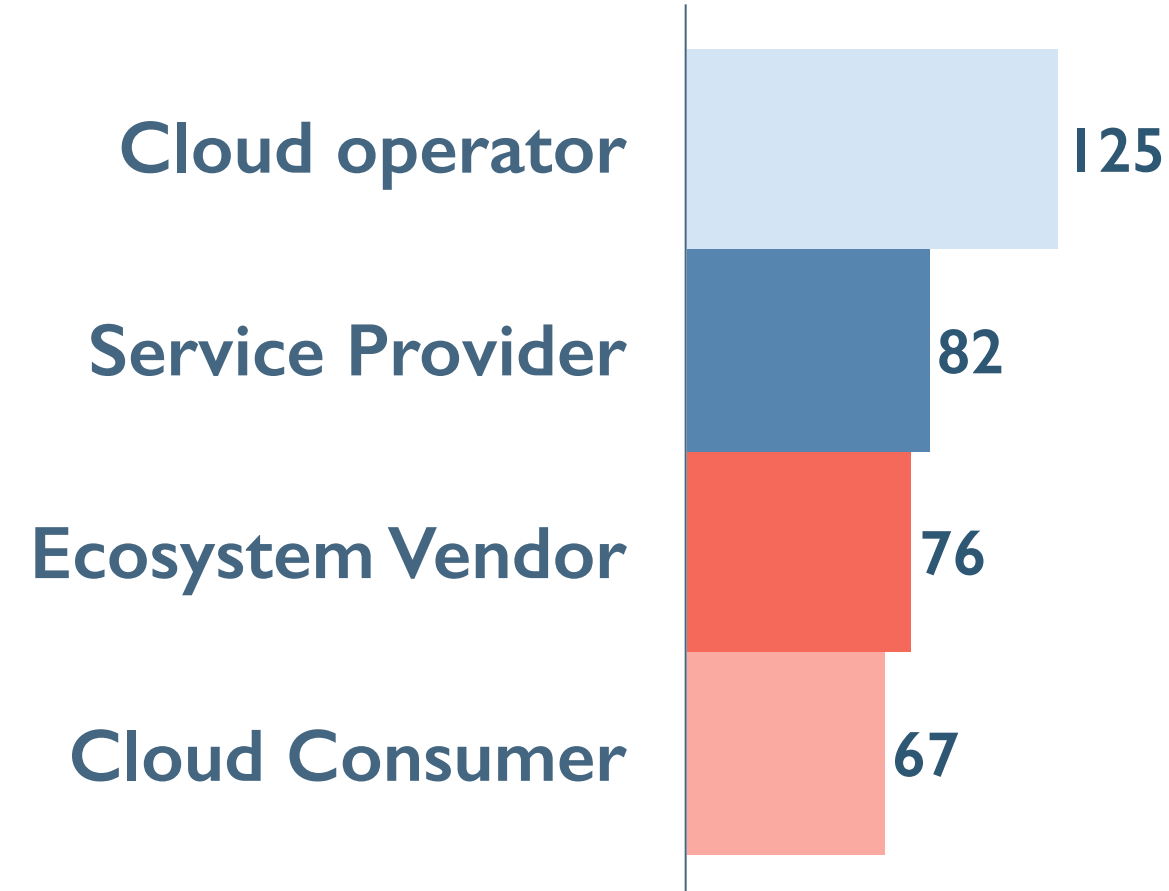


APP SURVEY

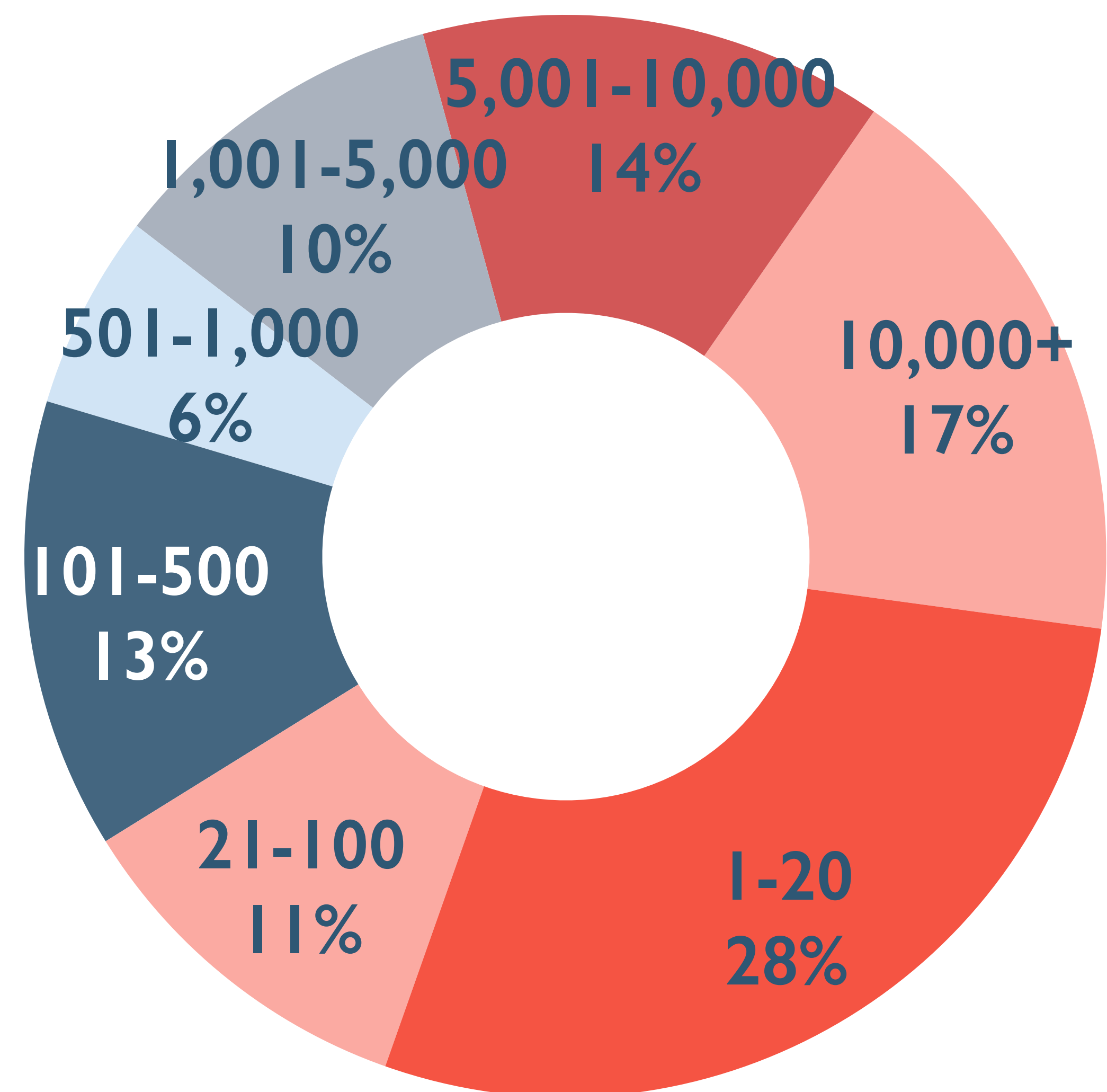
Industry



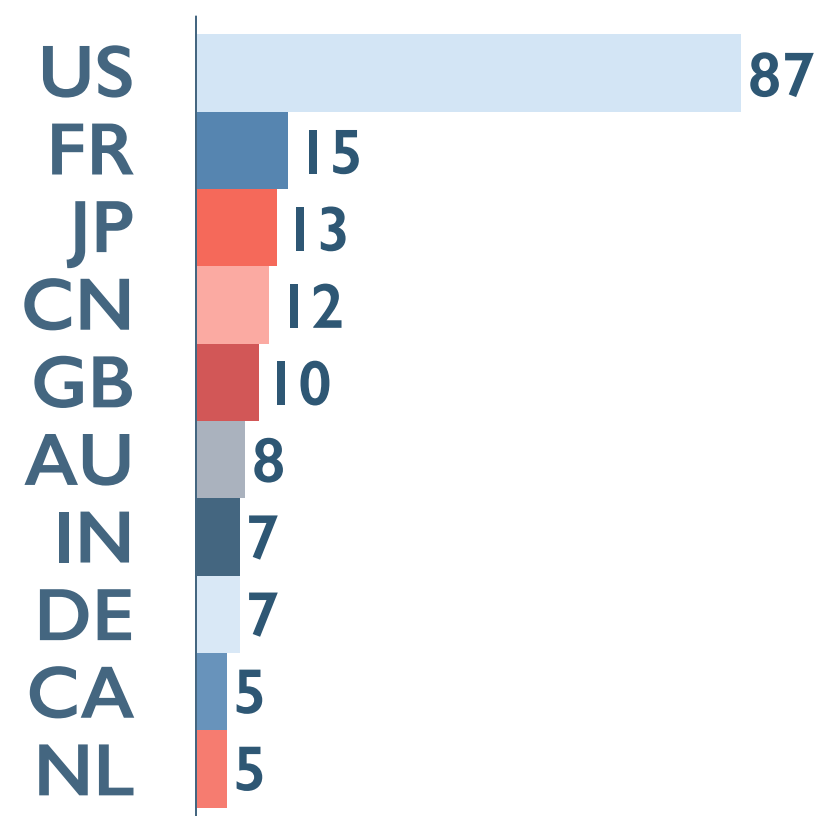
User Types



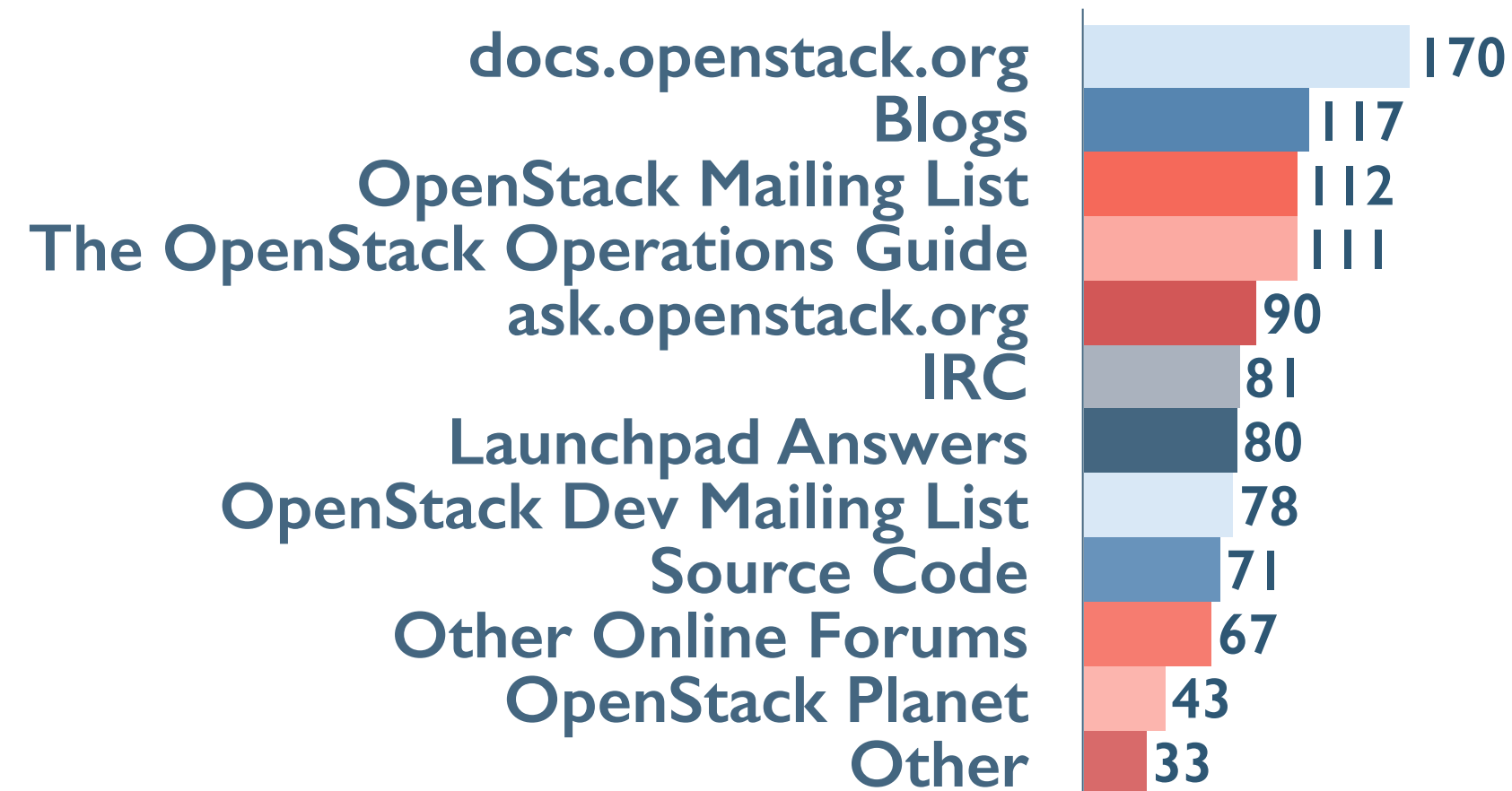
Organization Size



Top 10 Countries



Info Sources



COMMENTS

- Users asked for free-form feedback (including some requests from the projects)
 - Foundation Priorities
 - What they like about OpenStack
 - What they feel should be the emphasis for 2014
 - Neutron compared with nova network
- What do we do with the comments ?
 - Anonymise and classify
 - Distribute summaries and details to the PTLs prior to the summit
 - Provide input to design summit discussions
- Grouped into
 - What people like about OpenStack – 202 comments
 - User committee and Foundation priorities for 2014 – 252 comments
 - Further enhancements – 431 comments
 - Why nova-network – 38

MY FAVORITE COMMENT

Over the last 6 months I think the documentation has improved significantly. I have seen others recently hold up OpenStack docs as a model to strive for.

WHAT PEOPLE LIKED ABOUT OPENSTACK

- Community
- Open Source
- Flexibility
- Extendible
- Code is accessible and easy to understand
- 'Not a Lot'
- Scalable
- Easy automation
- 'It pays my salary'

USER COMMITTEE/FOUNDATION PRIORITIES

- Channel operations needs to development and companies
- Arrange regular feedback from user groups and ambassadors
- Close the gap for Enterprise IT
- Industry specific working groups
- Focus on those consuming OpenStack
- Expand training and certification marketplace
- Define what OpenStack is
- Improve/replace Launchpad

FOCUS FOR FURTHER ENHANCEMENTS

- Stability of core should be a priority above adding new functions
- Add how-to guides, problem management documentation, expire old documentation, end user guide (but much less than previous surveys)
- Zero downtime migrations
- Installation and configuration (but much less than previous surveys)
- Cross Project consistency with APIs, SDKs and CLIs
- High availability VMs
- Neutron stability, simplification, resilience, IPv6 and scalability
- Improved function and usability in Horizon
- Security, auditing (but much less than previous survey)
- AWS/EC2 compatibility

OPERATOR MINI-SUMMIT

- Mid-cycle gathering of operators
 - At eBay in San Jose – Thanks Subbu
 - Moderated by Sean Roberts and Tom Fifield
 - 50+ attendees
- Take-away
 - Very positive atmosphere – no tranquilizers needed
 - Operators want to get involved early – Blueprint-on-blueprints
 - Many volunteers to help ‘outside of the day job of running OpenStack clouds’
 - Lots of ideas for the summit
 - Aim to repeat in August/September 2014
- ‘Brief’ summary at <https://etherpad.openstack.org/p/operators-feedback-mar14>

ACTIVITIES AT THE SUMMIT

- Operators Meetup
 - Modelled on design summit – no slides!
 - Monday afternoon and Friday morning
 - <http://junodesignsummit.sched.org/overview/type/ops+meetup>
- Dev/Ops Design Summit sessions
 - Each project has a Dev/Ops session for in-depth conversations on needs, usage and priorities
 - <http://junodesignsummit.sched.org/?s=Dev%2FOps>
- Volunteers for design sessions
 - Follow the work of blueprint-on-blueprints to give operator input at the design stage
 - Volunteer at <https://etherpad.openstack.org/p/juno-summit-ops-volunteer>

ACTIVITIES AT THE SUMMIT (II)

- User Committee changes and scale-out
 - More activities, need more help
 - Session to discuss how to structure the feedback on Friday
 - <http://junodesignsummit.sched.org/event/797439515b4bd045895dc8195e72d317>
- There is also a conference going on 😊
 - 25 sessions in the operators track
 - 13 talks in the community building
 - Lots of other user related sessions in the project specific tracks

CAN YOU HELP ?

- If you are interested, have the time to help and the skills to bridge from user feedback to development, please get in touch with us
 - Volunteer at https://docs.google.com/forms/d/1HOwsPp44fNbWv9zgvXW8ZnCaKszg_XKu7vmLbrPFMzQ/viewform
 - user-committee@lists.openstack.org
- Follow up discussions to refine requirements and maximise inclusion
 - Operations mini-summit on Friday <https://etherpad.openstack.org/p/ATL-ops-unconference-RFC>
 - openstack-operators@lists.openstack.org
- Get involved in blueprint-on-blueprints process to improve the design before coding starts

REFERENCES

- Survey remains open at <http://www.openstack.org/user-survey>
- Survey November 2013 at <http://www.openstack.org/assets/Uploads/Deployments-IceHouse-v1.1.pptx>
- Survey April 2013 at <http://www.openstack.org/summit/portland-2013/session-videos/presentation/openstack-user-committee-update-and-survey-results>

Backup Slides

FOUNDATION PRIORITIES (FEEDBACK FROM APRIL 2013)

- Ensure compatibility across different implementations
- Stability/Hardening of existing functionality
- Establish certification program
- Encourage training for different skill sets
- Support user groups, especially outside U.S.