

# Modern Security Operations Center (SOC) Strategies



Modern security operations centers (SOCs) have the potential to protect organizations against an ever-evolving threat landscape through monitoring, detection and response capabilities, but organizational needs and limitations vary. How are leaders currently deploying and maturing modern SOC's?

## One-Minute Insights:



A hybrid approach is the most common SOC target operating model (SOCTOM)



Respondents are most commonly satisfied with their SOC's infrastructure, policies and team skills



Over half assess their SOC's operating model at least quarterly if not more often



The majority of organizations use penetration testing and red team exercises to evaluate SOC capabilities



Most leaders see opportunities for improvement in their SOC's aggregation and correlation capabilities

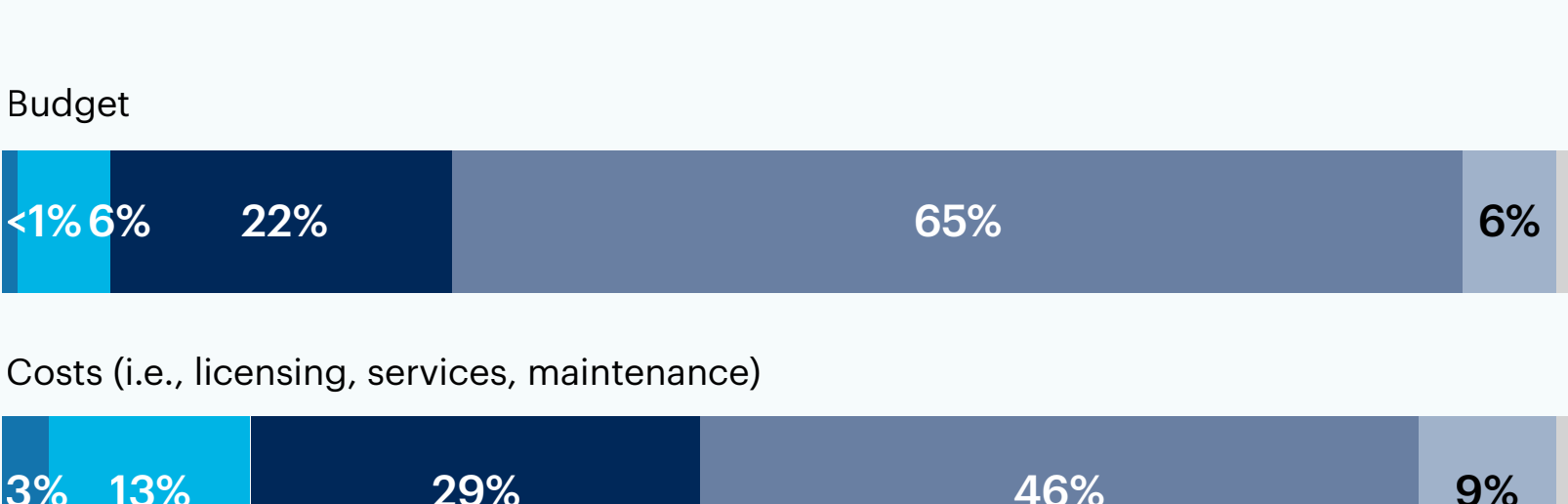
One-Minute Insights on timely topics are available to **Gartner Peer Community** members. Sign up for access to over 100 more, and new insights each week.

Data collection: Nov 28, 2022 - Mar 2, 2023

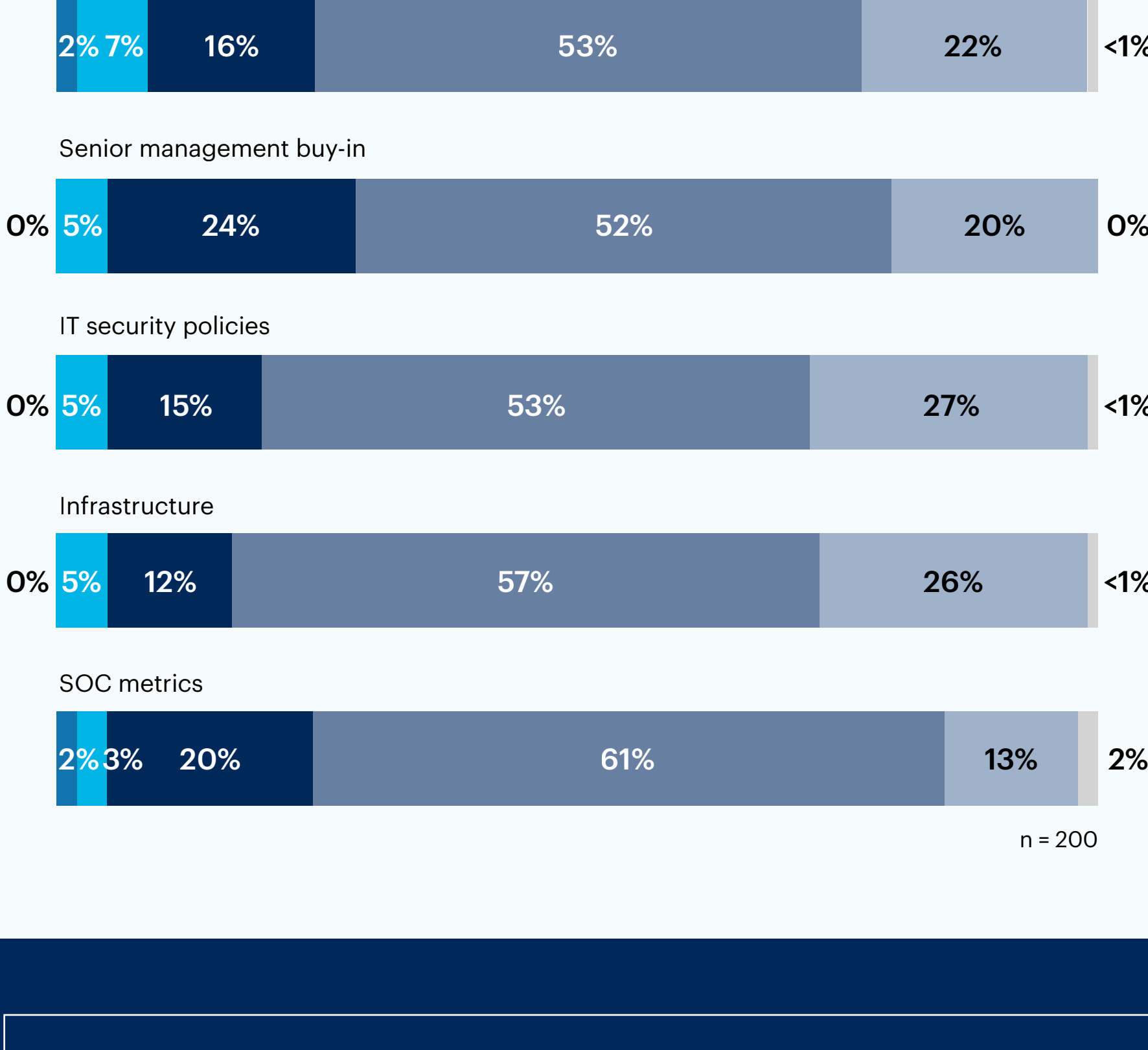
Respondents: 200 IT and information security leaders

## Most organizations have SOC's that use a hybrid operating model and leaders are typically satisfied with their SOC infrastructure

The most common SOC operating model is a hybrid approach combining internal and external resources (63%) but just over a third have an internal SOC (34%).



The majority of leaders feel satisfied with their SOC's infrastructure (83%), IT security policies (80%) and team skills (75%), but costs show room for improvement as just over half (55%) feel satisfied with this aspect.



"Gaining true, 100% visibility into our environment has been the biggest goal for our SOC."

- VP, natural resource extraction industry, 10,000+ employees

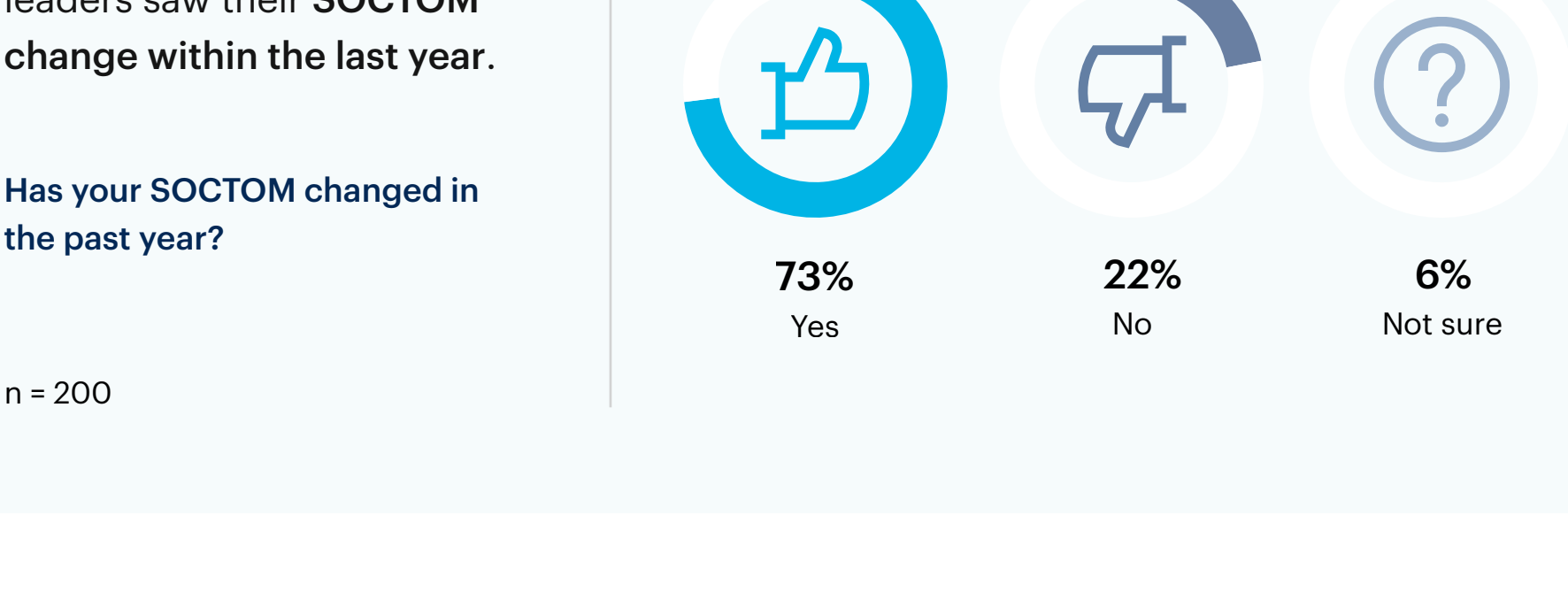


"Resources and skills are the main challenge for us."

- C-suite, finance industry, <1,000 employees

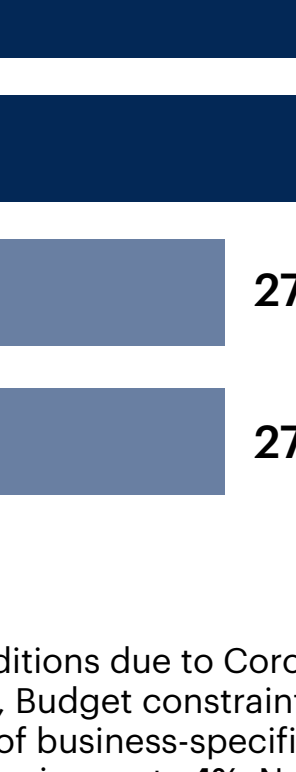
## Many leaders assess their SOC models at least quarterly and change them in response to transformation initiatives or evolving threats

Most organizations (48%) evaluate their SOC models on a quarterly cadence but a fifth (20%) do so more frequently.

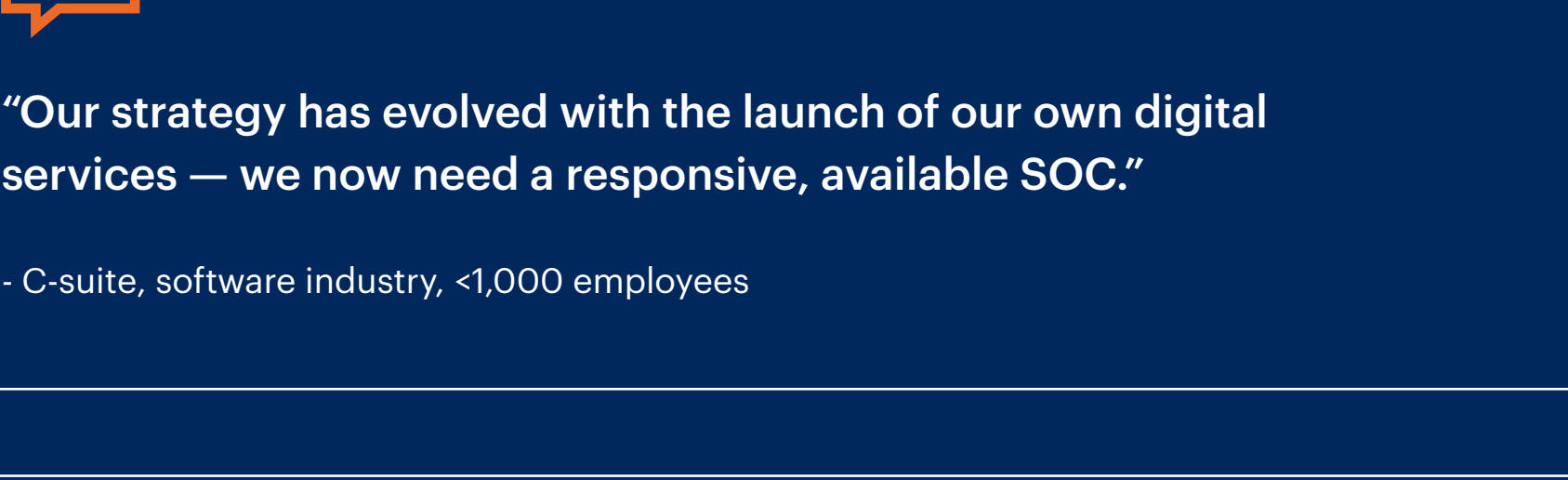


Nearly three-quarters (73%) of leaders saw their SOCTOM change within the last year.

Has your SOCTOM changed in the past year?



Organizations typically changed their SOCTOM due to new or updated digital transformation initiatives (68%), developments in the threat landscape (54%) or changing third-party providers (51%).



Skills availability 24%, Changing business conditions due to Coronavirus pandemic 23%, Change in security leadership or strategy 22%, Budget constraints 15%, Increased complexity of organizational needs 12%, Lack of business-specific focus in previous model 5%, New or updated regulatory/compliance requirements 4%, None of these 0%, Other 0%

n = 145



"Our strategy has evolved with the launch of our own digital services — we now need a responsive, available SOC."

- C-suite, software industry, <1,000 employees



"Our SOC has been augmented by a third party to keep up with skills and tools required."

- VP, telecommunications industry, 5,000 - 10,000 employees

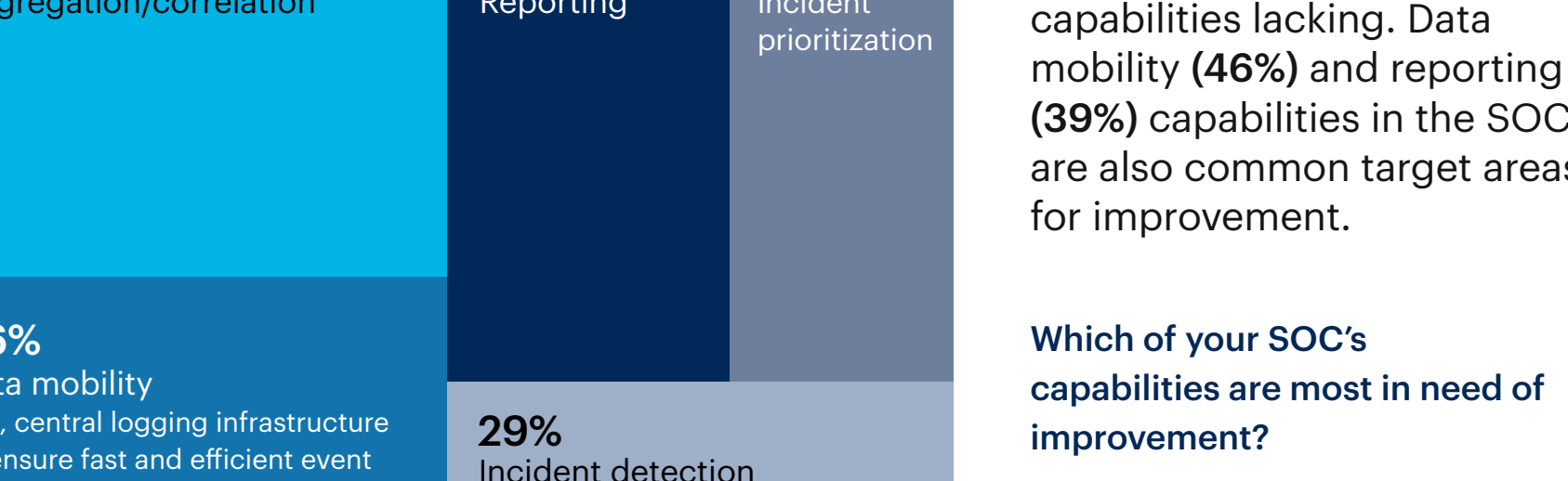


"It's a never ending update process."

- Director, software industry, 5,000 - 10,000 employees

## SOC research and development processes need to be improved, as do aggregation/correlation capabilities

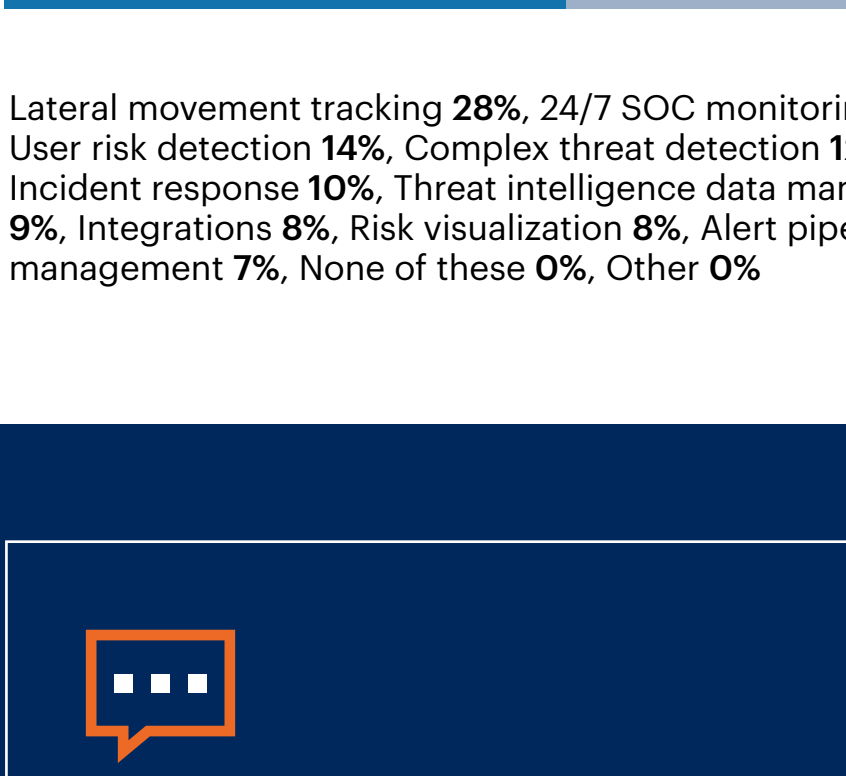
64% of respondents say their research and development processes are among those that require the most improvement. Many also see optimization opportunities in their incident response playbooks (45%), as well as log management (35%) and ticketing (32%) processes.



Which of your SOC processes are most in need of improvement?

Infrastructure playbooks 25%, Breach notification 18%, Threat intelligence handling 17%, Forensic handling 16%, SOAR playbooks 13%, Offense handling 9%, Post-incident reviews (PIRs) 8%, Threat hunting hypothesis creation 7%, None of these 1%, Other 0%

n = 200



Leaders report their organizations evaluate SOC capabilities using penetration testing (66%) and red team exercises (63%). Half of respondents (50%) employ continuous threat assessments and breach/attack simulations.

What methods do you use to assess your SOC capabilities?

None of these 2%, Other 1%

n = 200



Over half (57%) find their SOC's aggregation/correlation capabilities lacking. Data mobility (46%) and reporting (39%) capabilities in the SOC are also common target areas for improvement.

Which of your SOC's capabilities are most in need of improvement?

n = 200

Lateral movement tracking 28%, 24/7 SOC monitoring 17%, User risk detection 14%, Complex threat detection 12%, Incident response 10%, Threat intelligence data management 9%, Integrations 8%, Risk visualization 8%, Alert pipeline management 7%, None of these 0%, Other 0%



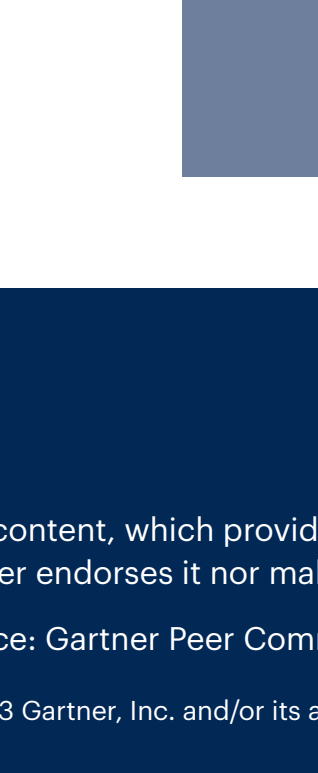
"False positive[s] and alert fatigue continue to be a major challenge for our SOC."

- Director, professional services industry, 10,000+ employees



"Unfortunately, due to the economic crisis, we have to make do with what we have. The team is on continuous high alert and barely have time to breathe due to lack of funding and quiet resignation. It's a really tough period."

- C-suite, educational services industry, <1,000 employees



Want more insights like this from leaders like yourself?

[Click here](#) to explore the revamped, retooled and reimagined Gartner Peer Community. You'll get access to synthesized insights and engaging discussions from a community of your peers.

## Respondent Breakdown

### Region



### Job Level



### Company Size

