Pager Rotation Duties

Web-420

What are Pager Rotation Duties?

- Putting an on-call rotation in place for operations engineers, or architects or development managers to fix issues for software services as they arise
- On-Call engineer or developer gets paged
 - Expectation is to fix the issue right away, OR
 - escalate the issue if they are not able to fix it
- Engineer must perform troubleshooting during the on-call shift

Traditional Pager Rotation Challenges

- Developers give the code...and leave operation and maintenance of the code to an Operations team
- Many times developers do not have experience in handling production workloads; difficult to deliver non-performant code
- The 'operations' developers would take longer to fix broken code that was written by someone else
- Often times the code would have to be escalated to the developer

Problems with Pager Rotations

1. Disruptive!

- a. Regular work doesn't get done
- b. During the night wakes people up
- c. Work-Life Balance
- d. Nightime....alert fatigue
- e. Alerts do not necessarily require immediate action
- f. People are unable to make personal plans since they are on-call and could be contacted

Examples of Solutions

- When coding or architectural decisions are made everyone in the value stream is aware
- Rotate pager rotation duties
- Find a balance between fixing production defects & developing new functionality
- Find understanding that business goals are not achieved only by marking features as completed
- Make sure 'Operations' do not feel isolated with production issues related to code

Best Practices for Pager Rotations

- Use software for automation
 - Removes steps in getting the information communicated
 Saves time & minimizes overhead
 - Routes notifications to on-call persons
- Define escalation policies & decide what actions must take place during an incident
- Define 'Tiers'
 - 1st Tier: person who wrote code
 - 2nd Tier: person who understands network and hardware

More Best Practices

- Enable easy overrides
- Establish time limits
 - If the person doesn't respond on time automatically forward the issue to another person
- Ensure 24 hour/7 days a week coverage
 - Allow for shift flexibility for staff and allow trades
- Provide coverage considering time zones

Setting Up Teams

- Set up service and server-level monitoring and dashboards for teams to understand system performance & health
- Issues should be routed to the on-call person
 - Teammates are recruited as needed to resolve issues
- Issues should be routed to the on-call person
- Use collaboration tool with a team
- Decide which teams are assigned on-call responsibilities per service

Transparency & Communication

- Do not communicate changes at the last minute
- Keep everyone up to speed about changes in the schedule
- Be aware of on-call hours
- Create an on-call timeline so people are aware of the schedule
 - People can plan activities around the schedule

On-Call Conclusion

- Team-wide rotations create camaraderie
- Helps diagnose and resolve incidents more effectively
- Improves availability and reliability for customers
- On-call personnel are the first line to defense against customer-impacting outages
- Ensures issues are resolved quickly

References

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