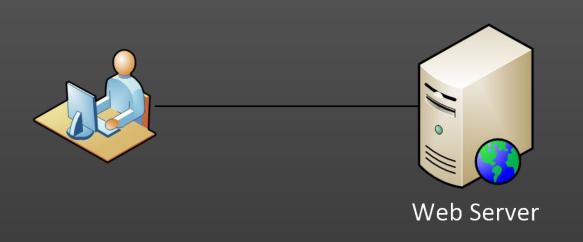
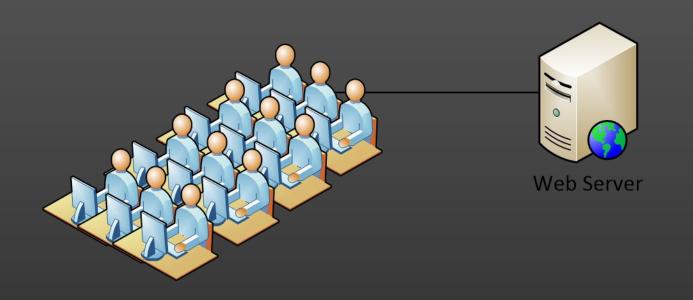


How to Improve Your Service by Roasting It

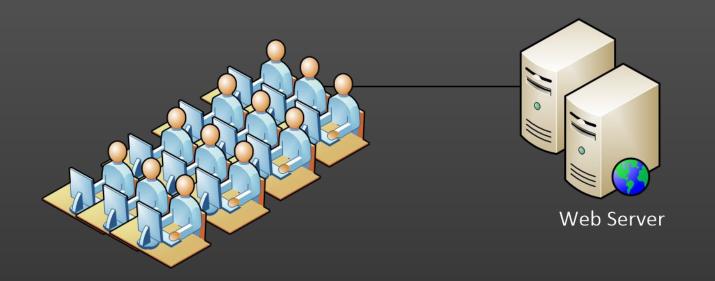
Jake Welch jawelch@microsoft.com @jaketwelch / #AzureSRE

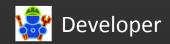


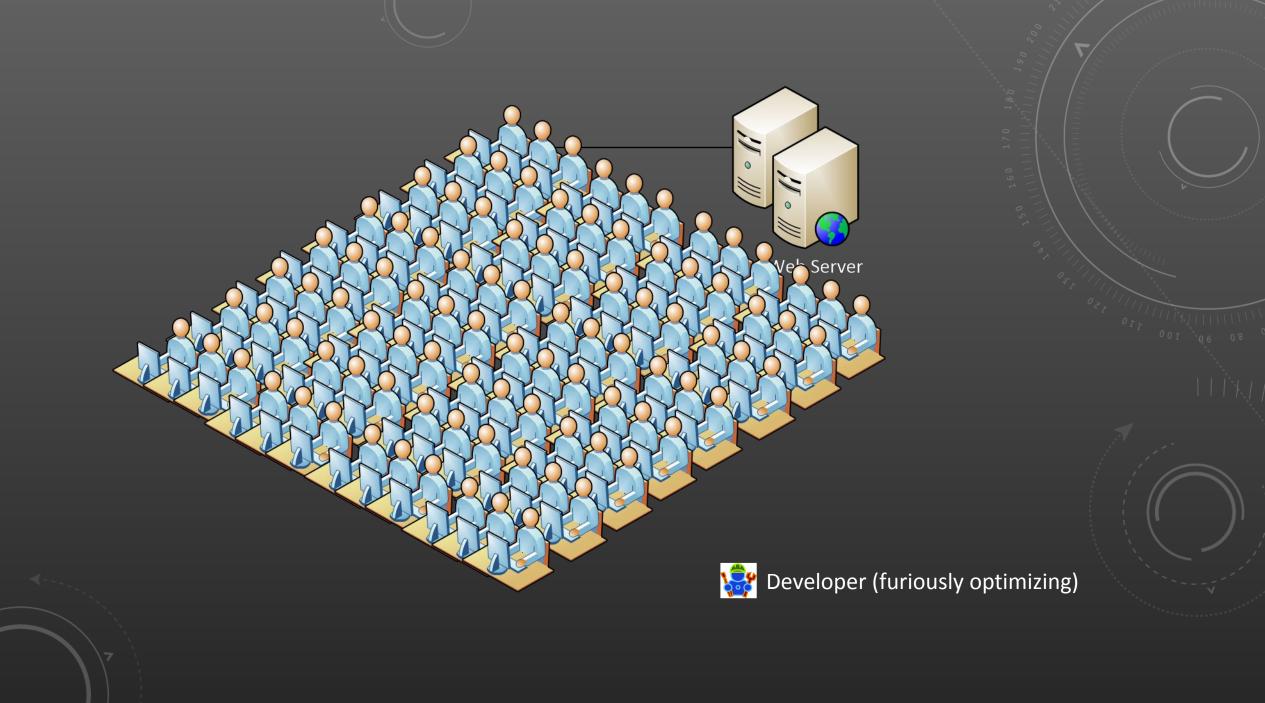


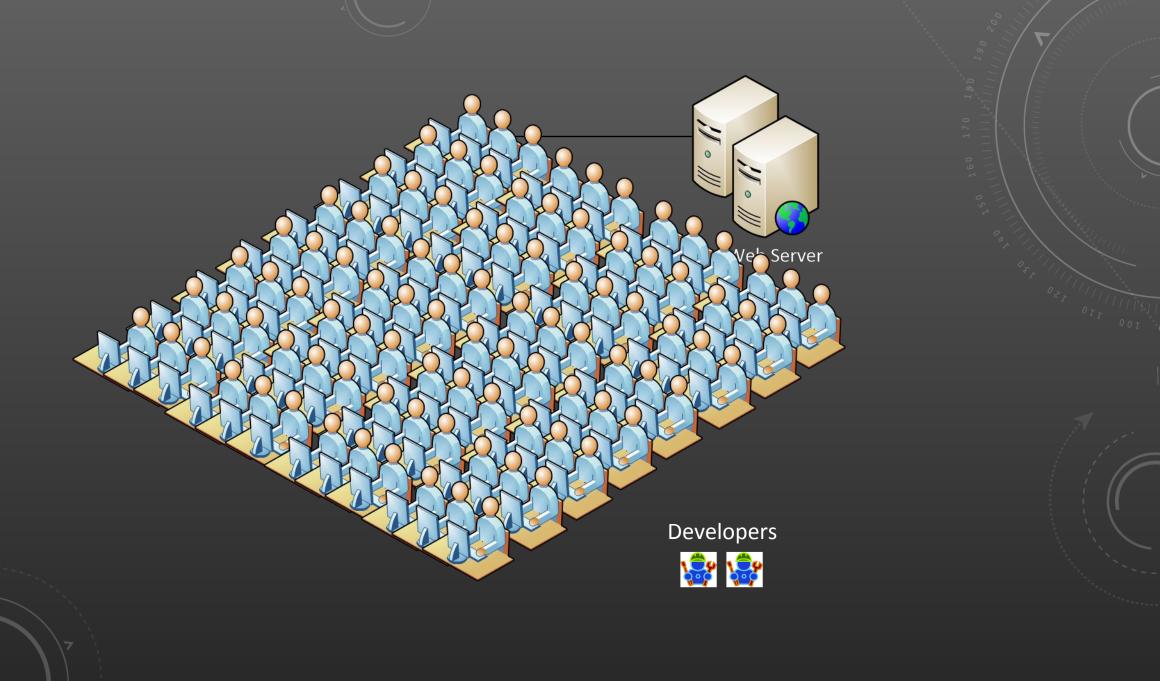


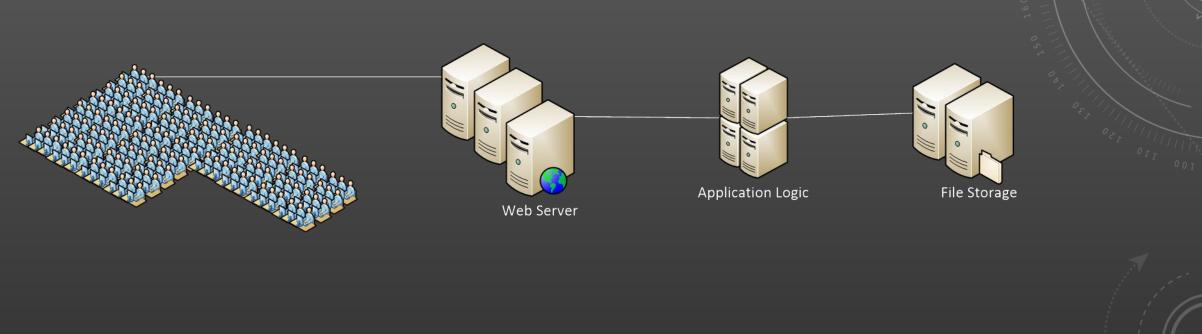




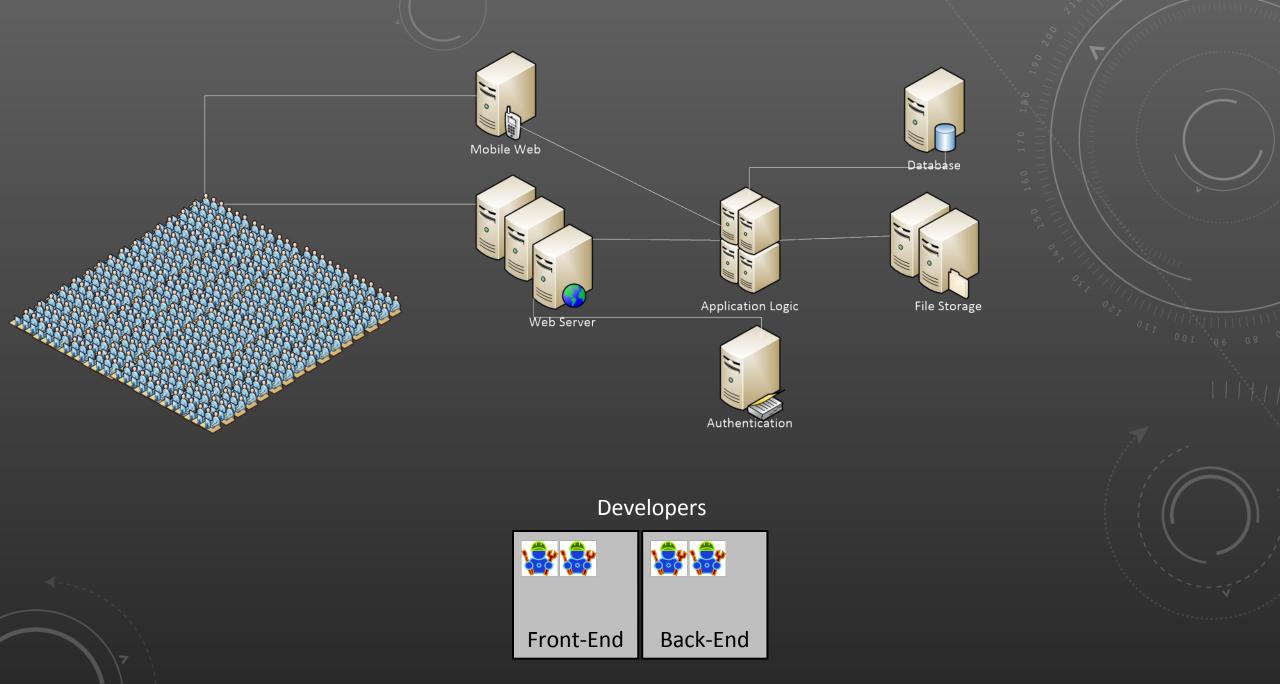


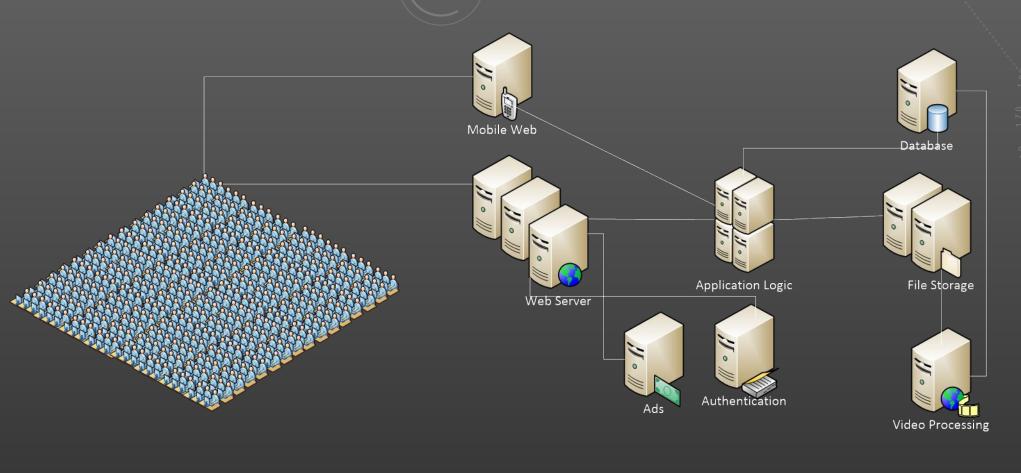






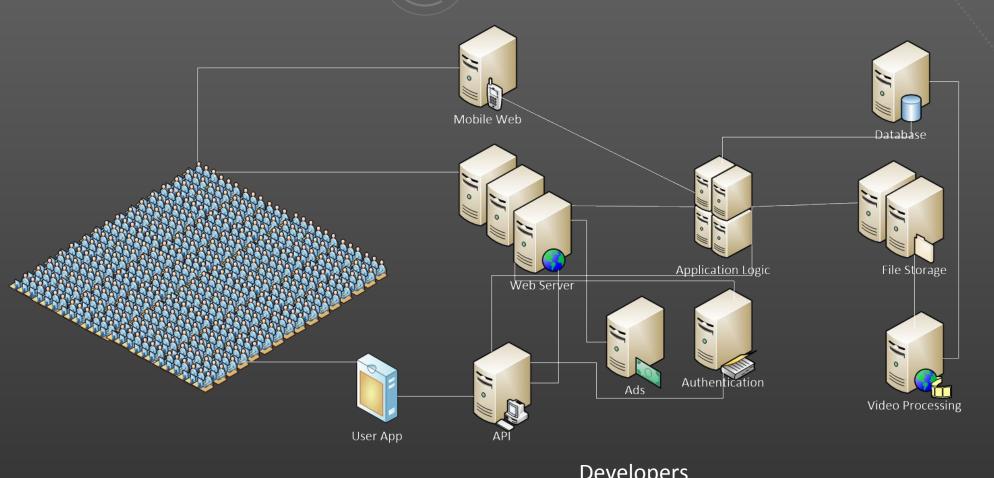
Developers





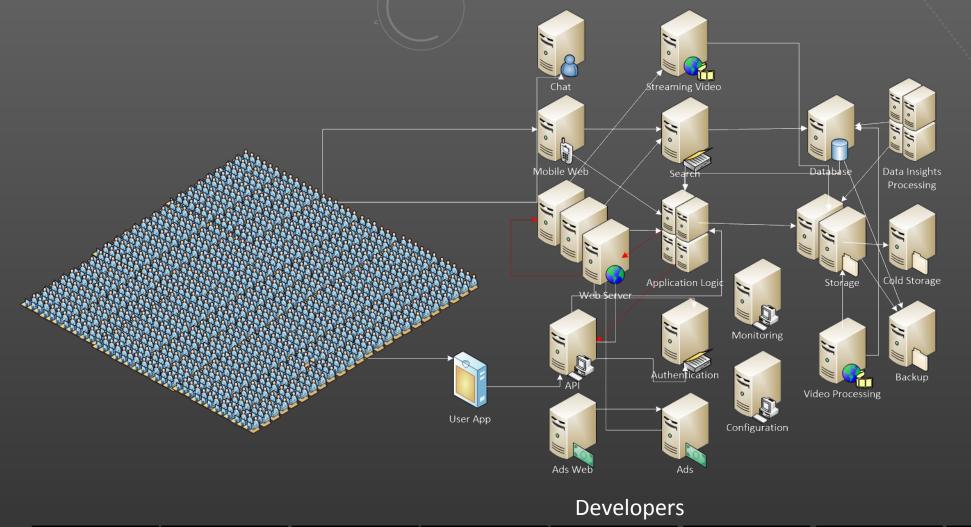
Developers

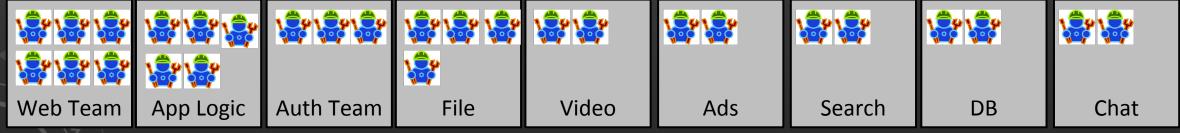




Developers



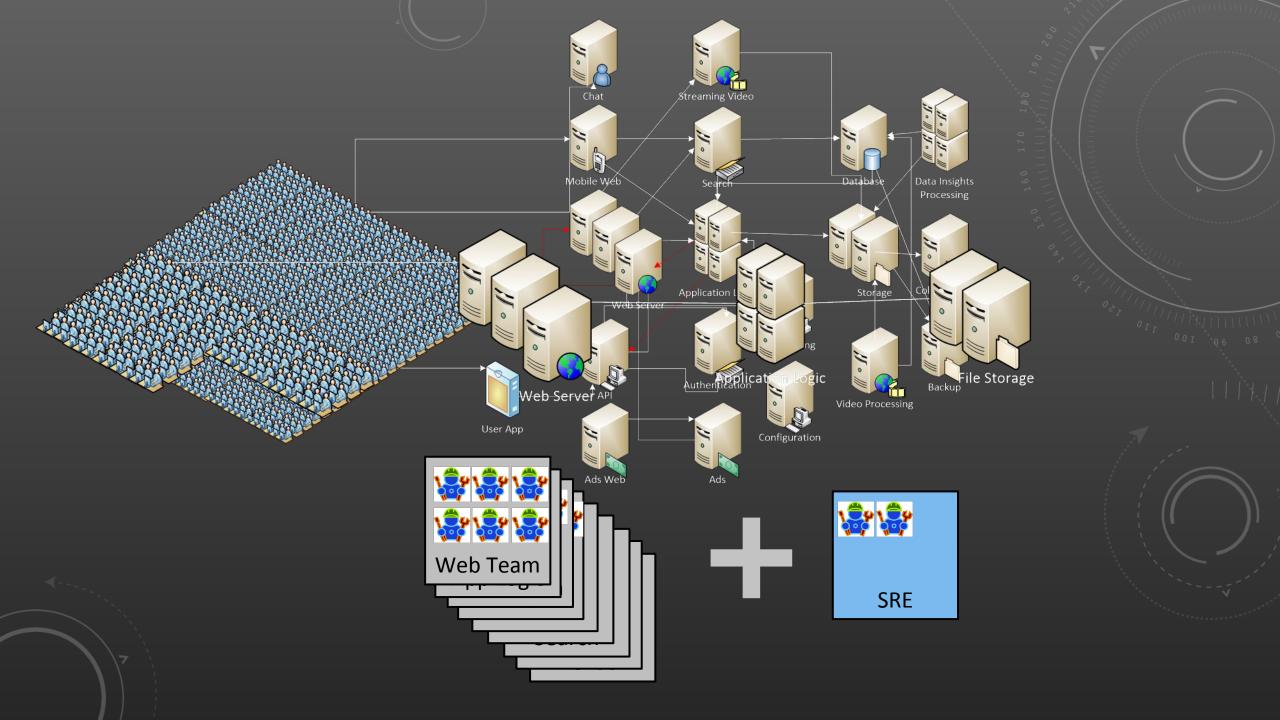




Teams will organically implement the service lifecycle to fit their needs

From source control and deployment to capacity planning





Welcome to The Pit of Opportunity



Engaging with Product Teams

- Only they know where debt lies, what it looks like, where their service fails
- How do you get a product team to open up and work with you?
- Is there a common understanding of SRE, agreement on goals?

We can't help you if you won't tell us where it hurts

Service roast

Pronunciation: \'sər-vəs\ \'rōst \
n.

A series of meetings at which a service is subjected to good-natured but frank discussions to uncover design/process flaws, scale limits or other shortcomings

What is a Service Roast?

- Goal: Expose and understand the warts, wrinkles, design flaws, shortcomings and problems everyone
 knows a service has but doesn't want to talk about
- Covers the entire service lifecycle from Development to Disaster Recovery
- Outcome: Understanding and a shared backlog of opportunities for improvement

You can and should do this for SRE-built services

Why Do This?

- Builds relationships and trust between the teams
- Speeds up 'newbie to expert' process
- Exposes details that otherwise would be difficult (or painful) to learn of
- Creates a *shared* backlog of improvements

Guidelines: Working Together

- Requires investment from SRE and product teams
- Get real contributors in the room (go away managers)
- End to end requires ~10 hours over several weeks
- 45 minute meetings avoid emotional fatigue

Guidelines: Tone

- Clarity of purpose and tone are key
- Not an attack on the service or past choices
- 'Why' questions are judgmental

Example Questions

- How does \${feature} work?
- When do these two pieces communicate?
- What part of the system handles \${feature}?
- Where are user requests routed?

- Why did/didn't you...?
- Why don't you instead...?
- Why can't you just...?
- Why aren't you simply...?

Roles

Service Owners SME experts on service providing insights

Roast Participants Ask questions, gain clarity on service (typically SRE)

Scribe Keeps track of interesting tidbits, actions, learnings

Roast Master Impartial moderator not otherwise involved in the engagement

The Roast Master

- Impartial moderator with conflict resolution experience
- Focuses on language, tone and body language of participants
- De-escalates conversations as necessary
- Decides when to call the meeting off

Strongly recommend implementing this role

Meeting Agenda

- Choose a single area or subsystem to drill into
- Moderator provides overview of guidelines and sets tone
- SME provides an overview using whiteboards, diagrams as needed
- Sessions are interactive: ask questions, clarify, dispel misinformation
- Moderator keeps conversation on topic
- Scribe tracks off-shoots for future meeting topics

Service Roast Sample Topics

Service Overview	What is it, who uses it, where does it fit in overall
Technical Architecture	Overview, upstream dependencies, sub-components
Development Process	Source control, external dependencies, build, test, tools
Change Management / Deployment	Process, technology, cadence, gates, rollback
Configuration Management	Process, technology, source control
Demand Forecasting, Capacity Management	How do you shift load, or scale? How do you load test? Can you shed load?
SLAs, SLI, SLOs, KPIs, etc.	What are your targets? Are you meeting them?
Monitoring, Logging, Diagnostics, Tickets	How do you monitor, diagnose? How noisy?
Incident Response, production playbook, disaster recovery, backup/restore	How do you respond to issues? What is your waste case plan? Do you use it regularly?
Review of Past Outages, War Stories	What has gone wrong previously? How was it fixed?



Meeting Closure

- At the end of the meeting:
 - The next topic is chosen
 - Adjustments are discussed for future sessions (new topics, participants, etc.)
 - The scribe summarizes key learnings and opportunities identified in a centralized doc
- At the end of the series
 - Postmortem the engagement
 - Improvement items are jointly prioritized and bugs/tasks opened

Gotchas

- Things can be said in the room that don't leave (except the fix)
- Don't do this if you think it will degrade relationships between the teams
- Don't compare one service to another

 Each service will be at different maturity points that's ok!
- When the product team is talking to each other, don't stop them listen harder

Summary

- A Service Roast can be a great tool to safely gain E2E service understanding
- Expectations and tone are critical success components
- Managing emotions is critical to a safe discussion environment
- Multiple, 45 minute meetings are best to cover all areas
- The roast master role helps smooth over bumps in the process



Questions?

Jake Welch

jawelch@microsoft.com

@jaketwelch / #AzureSRE