



匠人学院

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DevOps 第四期 Tutorial 3

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Homework 2.2

Think about how to apply Agile mindset to your answer.

<https://www.pathrise.com/guides/45-behavioral-interview-questions/>



Homework 3.1

Look for SRE positions requirements / Compare with current experiment / Identify gaps



About the opportunity:

You will work closely with our Technology and Support teams to improve our platform by developing and incorporating best practices, identifying and actioning areas of opportunity, using code/infrastructure-as-code to achieve a high degree of automation. Some other responsibilities include:

- Proactively building and implementing services to improve our infrastructure and application reliability, resiliency, security and performance
- Use code to drive the adoption of automation
- Define and implement appropriate system measures (including SLIs, SLOs)
- Lead the continuous improvement of our platform monitoring, observability and alerting solutions
- Define the appropriate monitoring metrics for improved customer experience via RUM or synthetics.
- Implement proactive monitoring and alerting on third-party services
- Contribute to incident reviews

About you :

You will be well versed in applying SRE principles to ensure we are optimising our current infrastructure, and possess the ability to automate our services, security and governance controls for reliable operations at scale. You will work closely with our Technology and Support teams to improve our platform by developing and incorporating best practices, identifying and actioning areas of opportunity, using code/infrastructure-as-code to achieve a high degree of automation

- Extremely knowledgeable in relation to AWS
- Experience with container technologies (Docker)
- Deep understanding of Windows system administration
- Familiarity with maintaining and deploying .NET web applications
- Sound understanding of Serverless architectures
- Strong advocate for infrastructure-as-code and using code to improve outcomes (CloudFormation, CDK)
- Sound software development or scripting experience – (Python, Perl)
- Experience with major infrastructure automation frameworks/tools
- Experience administering and adopting observability tools (New Relic, Datadog, Sumo Logic, etc)
- Strong verbal and written communication skills
- At least five years commercial experience within an Operations/SRE/DevOps/System Administration role

Search for SRE jobs on LinkedIn:

<https://www.linkedin.com/jobs/search/?keywords=site%20reliability%20engineer>

Homework 3.1

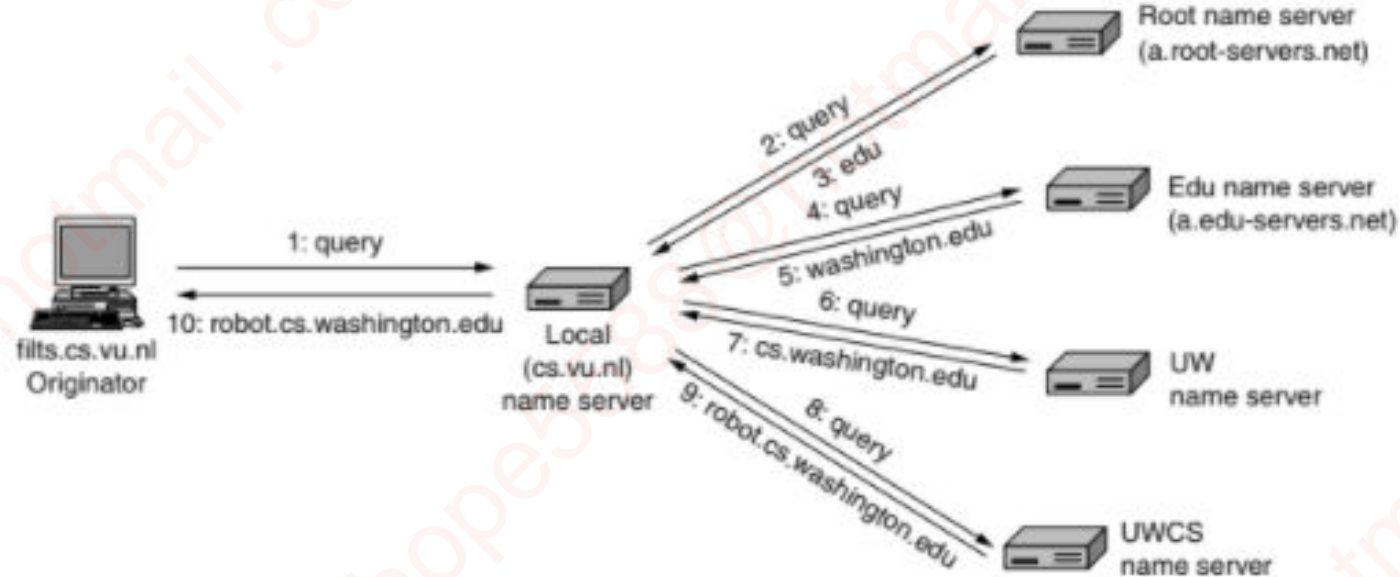
Complete a diagram of “what happens when you enter google.com into browser?”



1. You type google.com into the address bar of your browser.
2. The browser checks the cache for a DNS record to find the corresponding IP address of maps.google.com.
3. If the requested URL is not in the cache, ISP's DNS server initiates a DNS query to find the IP address of the server that hosts google.com.
4. The browser initiates a TCP connection(three way handshake) with the server.
5. The browser sends an HTTP request to the webserver.
6. The server handles the request and sends back a response.
7. The server sends out an HTTP response.
8. The browser displays the HTML content (for HTML responses, which is the most common).

ref: [What happens when you type a URL in the browser and press enter?](#)





complete reference:

<https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbnxzaz21pbmh8Z3g6NjQxMTI2MmYxMTAwZmNjZQ>

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Agile hands-on

<https://github.com/JiangRenDevOps/DevOpsLectureNotesV5/blob/master/WK2-Agile-Methodology/config-scrum-sprint.md>





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Q & A