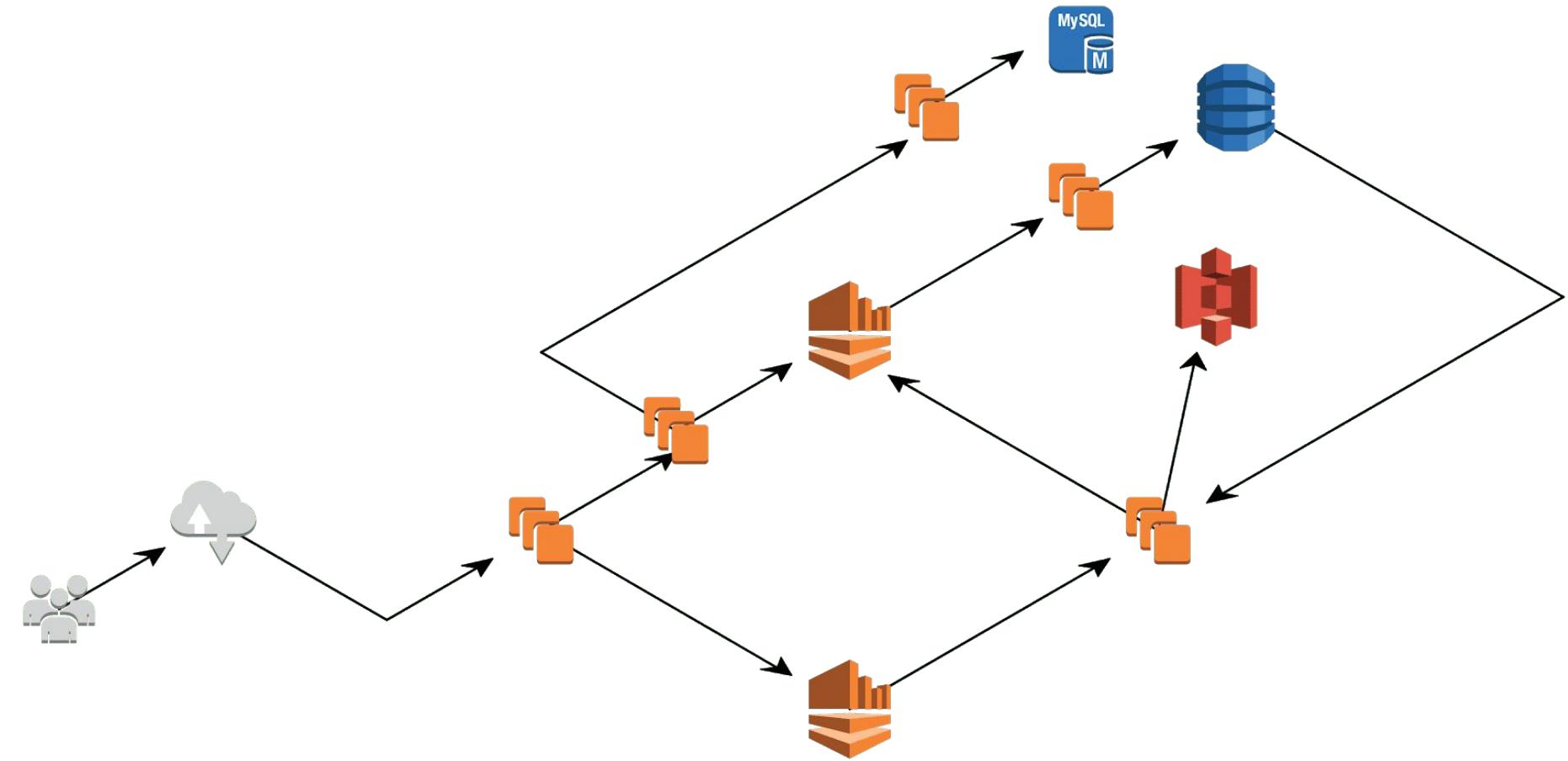


How to think like an SRE

Itay Maman, @pembleton

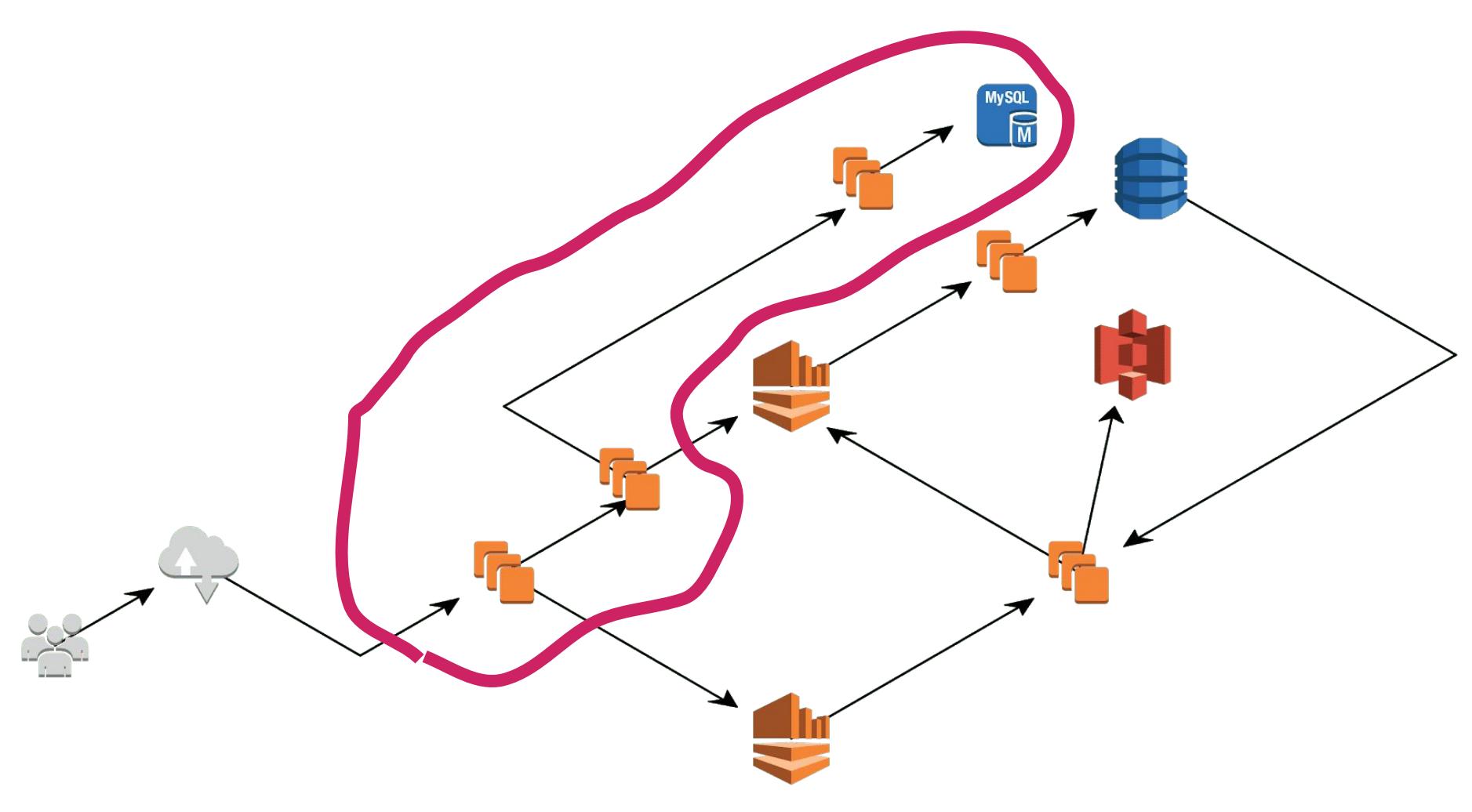


Architecture

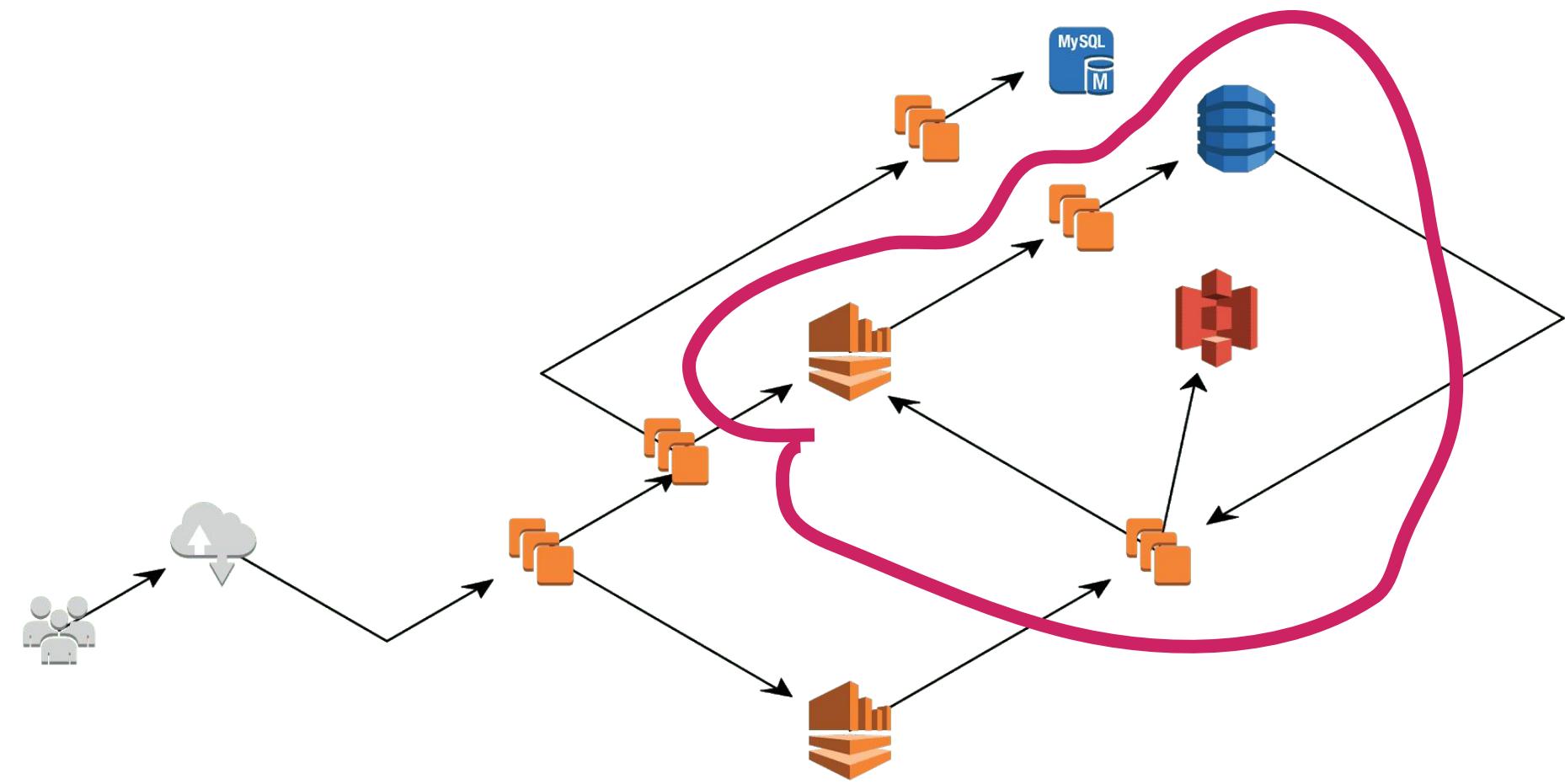




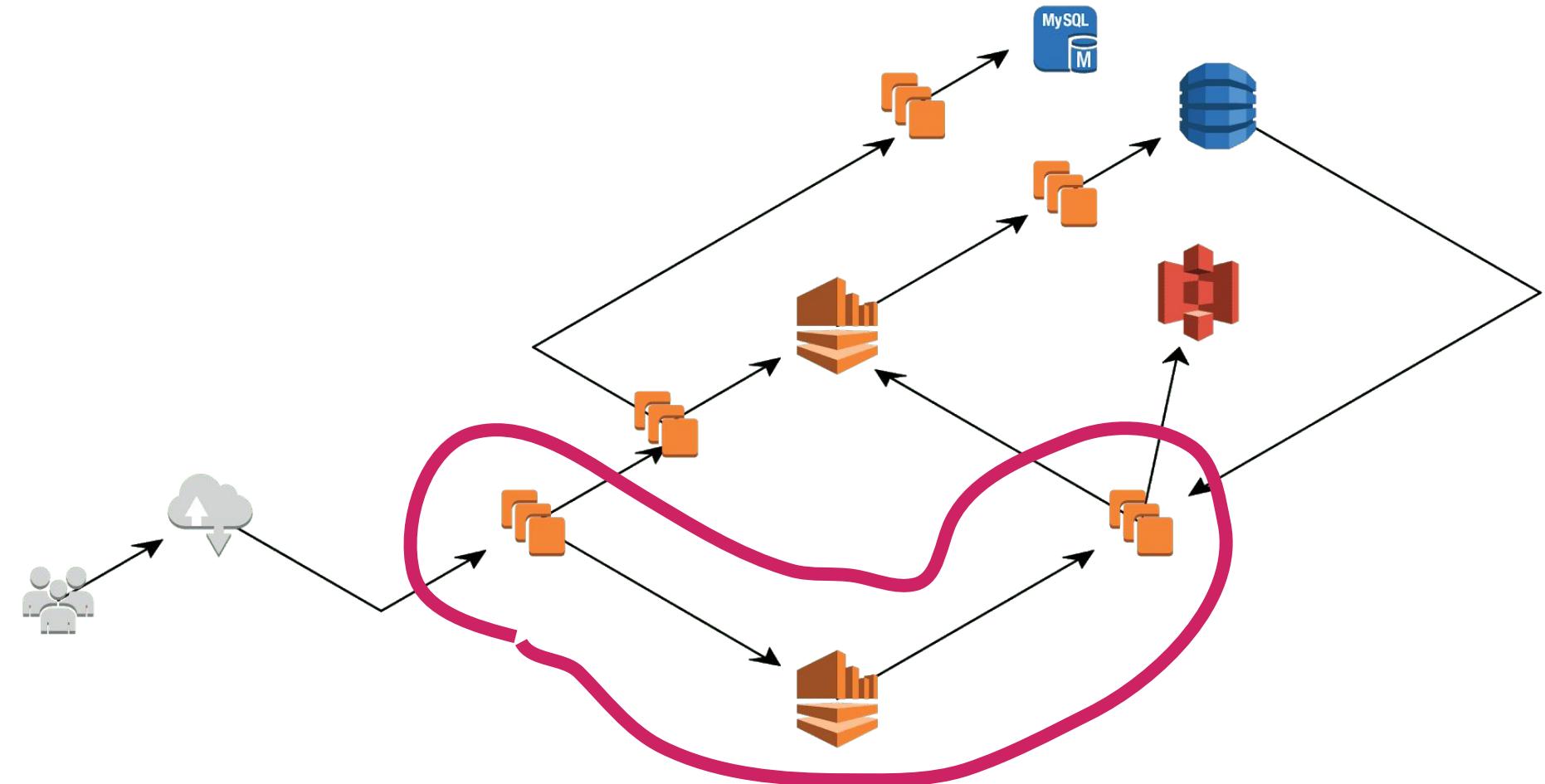






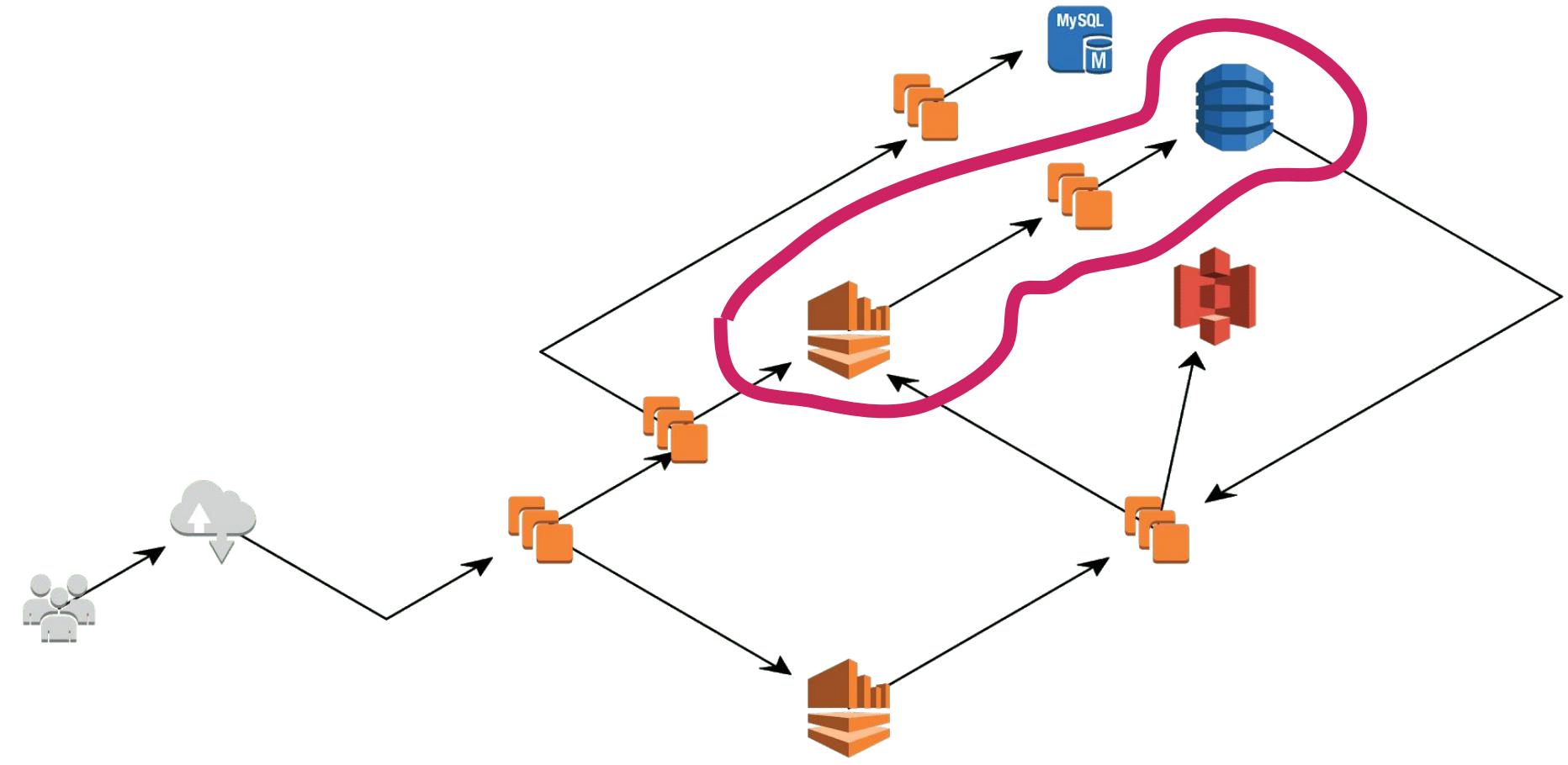






How bulletproof do you want to be?







Monitoring



Cat vs. Cattle





I12E as Code



```
.. Sep 15:53 ..  
6. Sep 2015 bin -> usr/bin  
9. Sep 09:31 boot  
21. Sep 15:50 dev  
19. Sep 09:32 etc  
21. Sep 15:52 home  
7 30. Sep 2015 lib -> usr/lib  
34 30. Sep 2015 lib64 -> usr/lib  
96 23. Jul 10:01 lost+found  
996 1. Aug 22:45 mnt  
38. Sep 2015 opt  
16 21. Sep 15:52 private -> /home/encrypt  
0 21. Sep 08:15 proc  
4096 12. Aug 15:37 root  
568 21. Sep 15:56 run  
7 30. Sep 2015
```

SSH is not an option

```
..  
bin -> usr/bin  
boot  
dev  
etc  
home  
lib -> usr/lib  
lib64 -> usr/lib  
lost+found  
mnt  
opt  
private -> /home/encrypt  
proc  
root  
run
```



Actionable
&&
SLO-risking



Coding



```
public void populate() {
    try {
        getWriter().execute();
    } catch (Exception e) {
        logger.severe("transaction writer failure", e);
    }
}
```



```
static async get(factory: AwsFactory, s3Ref: S3Ref): Promise<Buffer> {
  const s3 = factory.newS3();
  let resp: AWS.S3.GetObjectOutput;
  try {
    const req: AWS.S3.GetObjectRequest = {
      Bucket: s3Ref.s3Bucket,
      Key: s3Ref.s3Key
    }
    resp = await s3.getObject(req).promise();
  } catch (e) {
    console.log(`S3 getObject error. ${s3Ref.s3Bucket}/${s3Ref.s3Key}`);
    throw e;
  }

  const ret = resp.Body;
  if (!ret) {
    throw new Error(`Empty body when reading an S3 object. ${s3Ref.s3Bucket}/${s3Ref.s3Key}`);
  }

  return ret as Buffer;
}
```



Incident



Finale

Thank you

Photos

<https://www.pexels.com>

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