

SDCC 2016
中国软件开发大会

架构师进阶之路

老曹眼中的全栈架构师

和创（北京）科技股份有限公司
www.hecom.cn

老曹



半吊子全栈工匠一枚
20+年老程序猿
流浪过几家世界500强
投身过几个创业团队
出过几本过时技术的小册子
涂鸦过几篇文章
署名了几个国内外专利
维护着CSDN博客和公众号：wireless_com
.....
现就职于



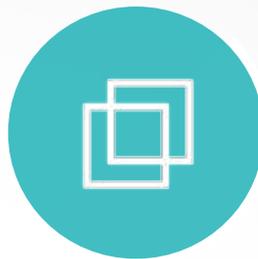
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什么是全栈架构师

工程师



架构师



全栈工程师



全栈架构师

为什么需要全栈？

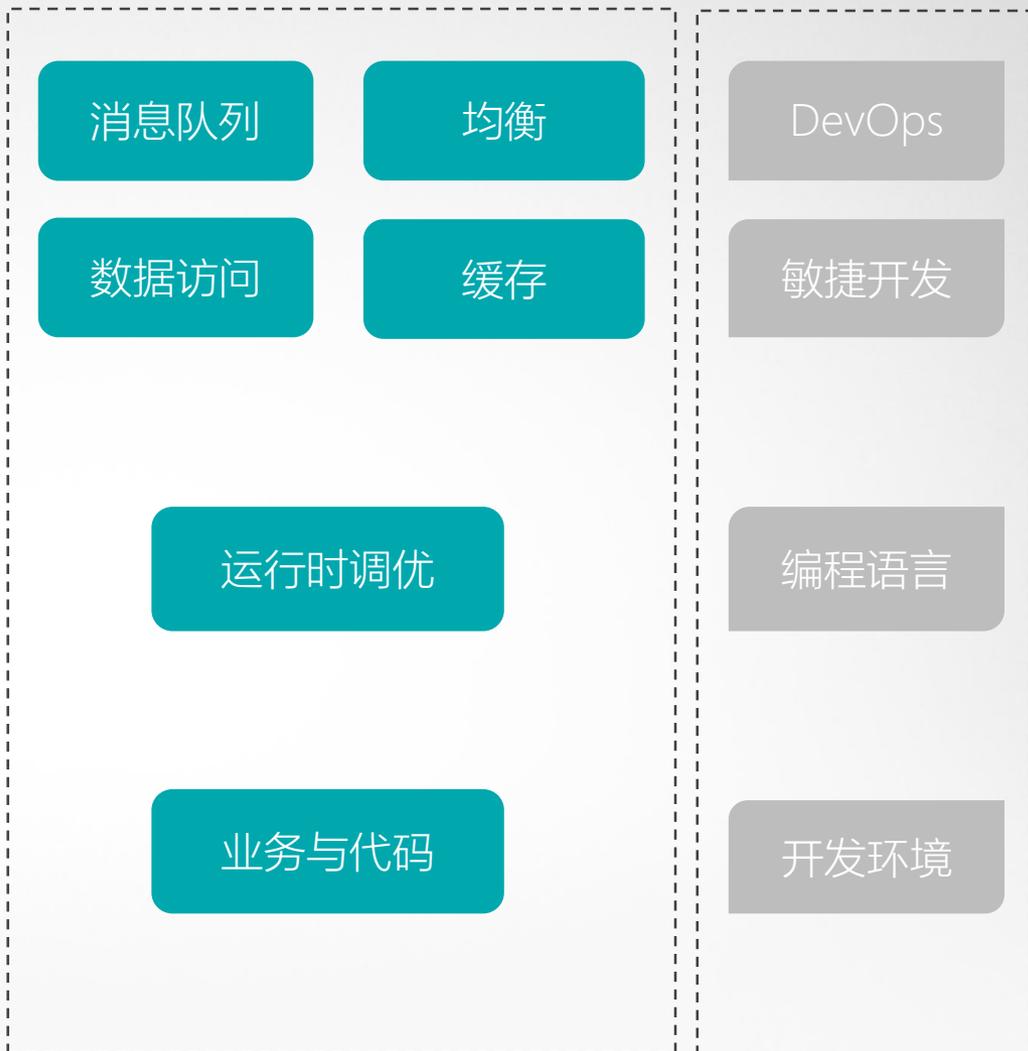
性能瓶颈

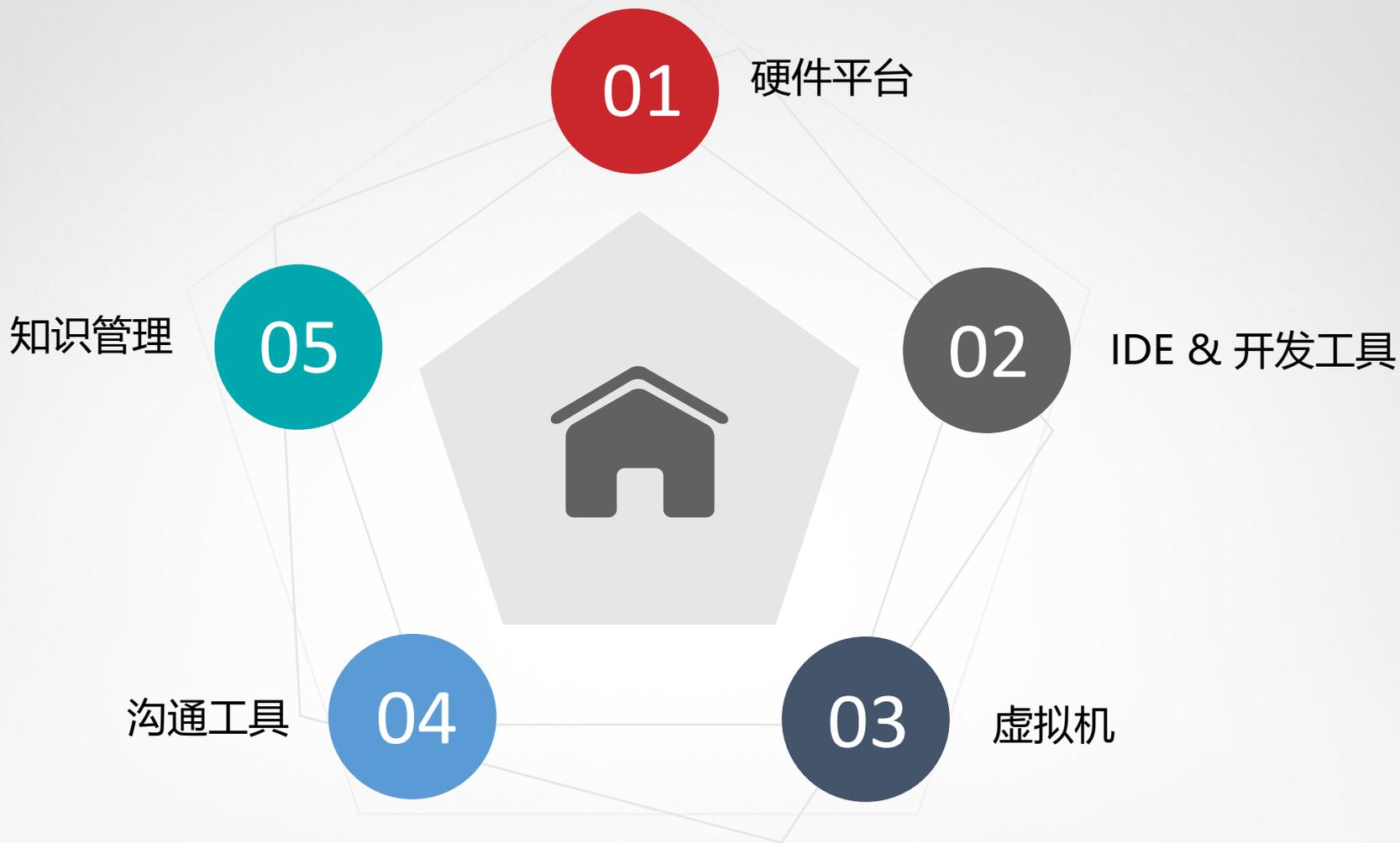
沟通困难

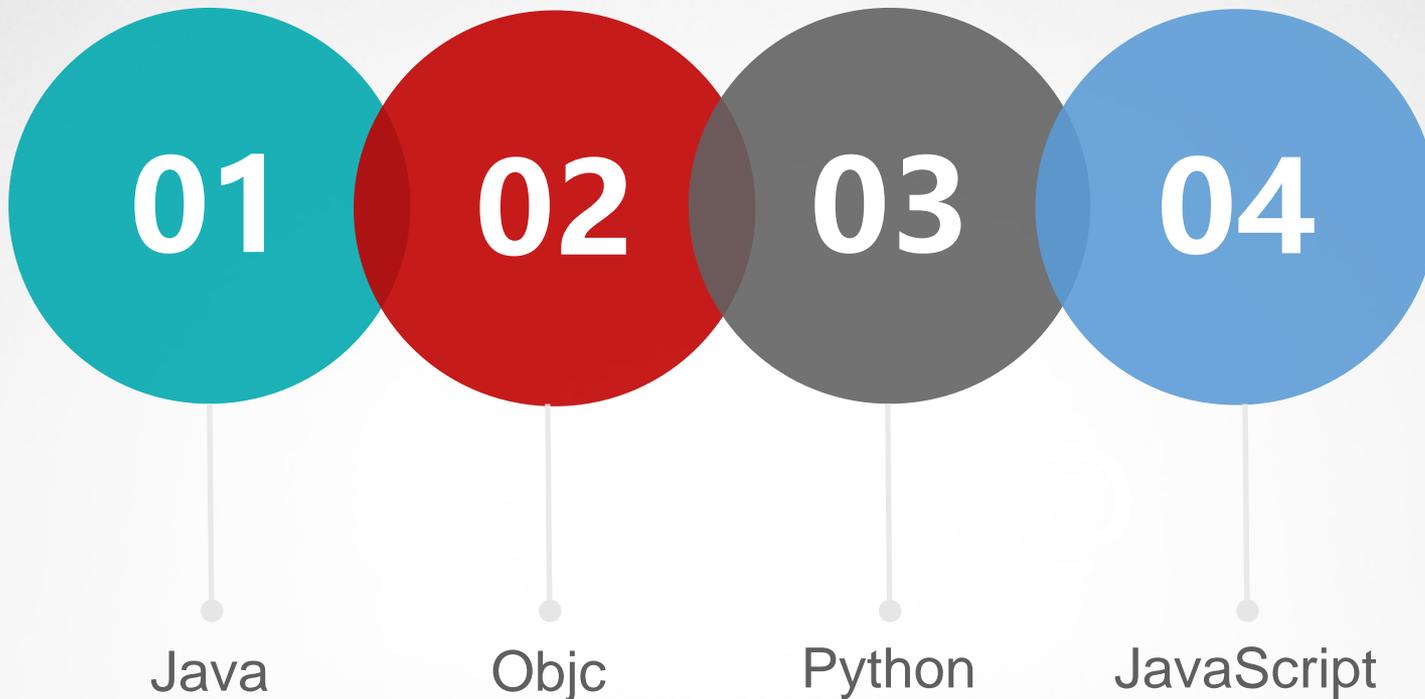
救火灭火

资源紧张

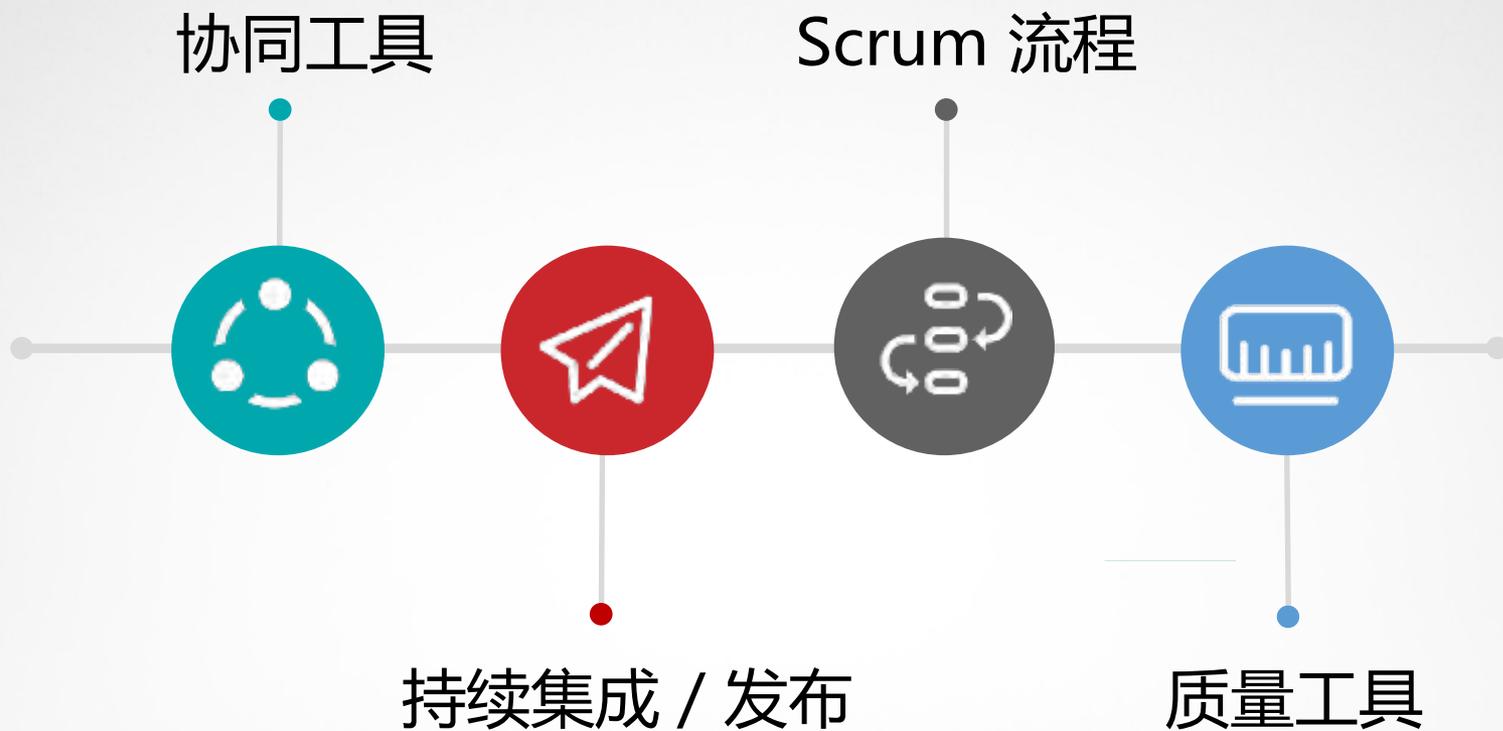
全栈的技术栈



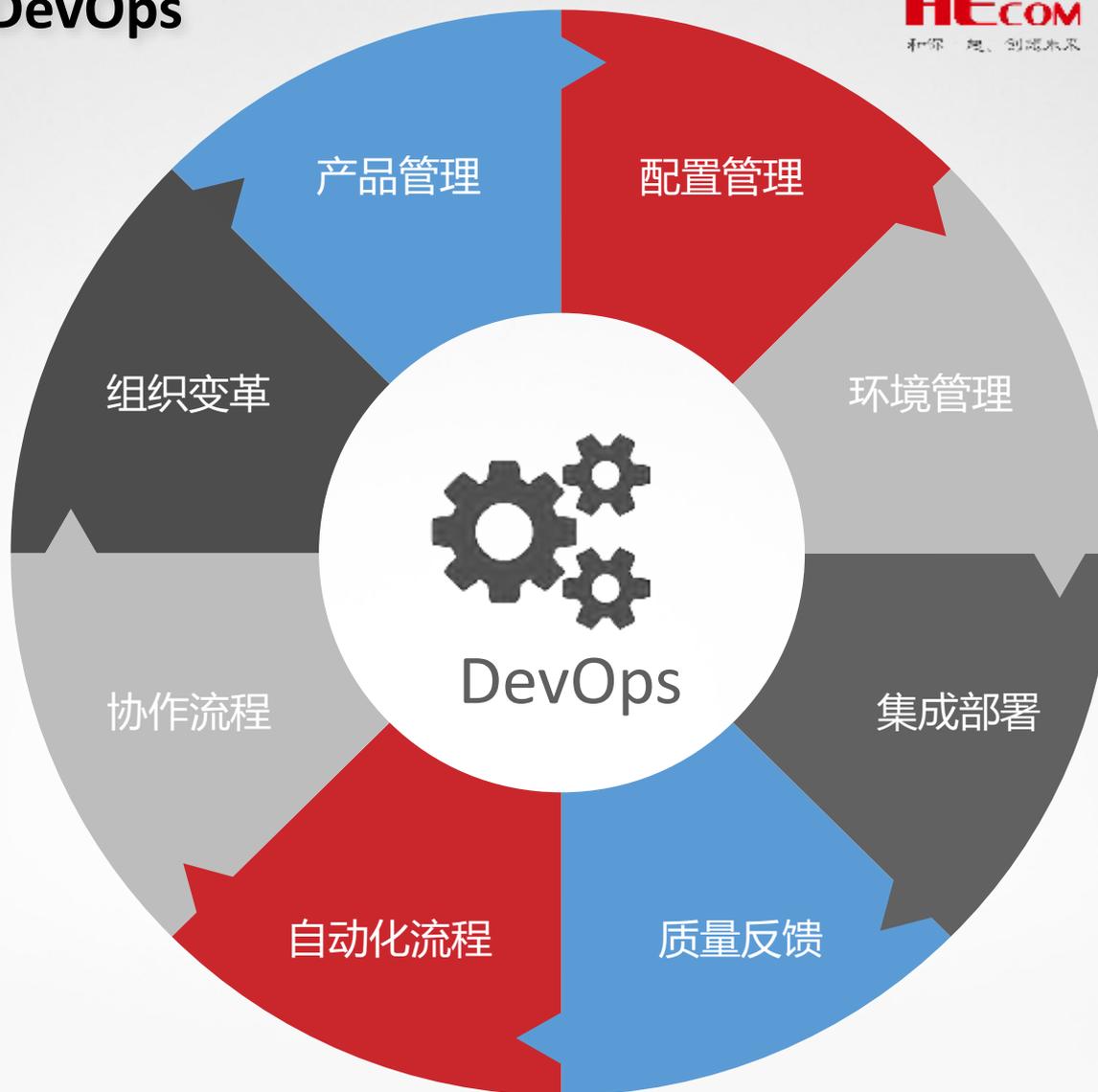




效率——敏捷



效率——DevOps



技能——操作系统



> LINUX

> File Commands

- ls - directory listing
- ls -l - formatted listing with hidden files
- cd dir - change directory to dir
- cd ~ - change to home
- pwd - show current directory
- mkdir dir - create a directory dir
- rm file - delete file
- rm -r dir - delete directory dir
- rm -f file - force remove file
- rm -rf dir - force remove directory dir
- cp file1 file2 - copy file1 to file2
- cp -r dir1 dir2 - copy dir1 to dir2; create dir2 if it doesn't exist
- mv file1 file2 - rename or move file1 to file2
- if file1 is an existing directory, moves file1 into directory file2
- ln -s file link - create symbolic link link to file
- touch file - creates or updates file
- cat < file - places standard input into file
- more file - output the contents of file
- head file - output the first 10 lines of file
- tail file - output the last 10 lines of file
- tail -f file - output the contents of file as it grows, starting with the last 10 lines

> Process Management

- ps - display your currently active processes
- top - display all running processes
- kill pid - kill process pid
- killall proc - kill all processes named proc
- fg - lists stopped or background jobs; resume a stopped job in the foreground
- fg % - bring the most recent job to foreground
- fg %n - bring job n to the foreground

> Compression

- tar -f file.tar files - create a tar named file.tar containing files
- tar -xzf file.tar - extract the files from file.tar
- tar -czf file.tar.gz files - create a tar with gzip compression
- tar -xzf file.tar.gz - extract a tar using gzip
- tar -cjf file.tar.bz2 - create a tar with bzip2 compression
- tar -xjf file.tar.bz2 - extract a tar using bzip2
- gzip file - compresses file and renames it to file.gz
- gunzip file.gz - decompresses file.gz back to file

> Searching

- grep pattern file - search for pattern in files
- grep -r pattern dir - search recursively for pattern in dir
- command | grep pattern - search for pattern in the output of command
- locate file - find all instances of file

> File Permissions

- chmod octal file - change the permissions of file
- ls -l, which can be found separately for user, group, and world by adding:
 - * u - read (r)
 - * w - write (w)
 - * x - execute (x)
- Examples:
 - chmod 777 - read, write, execute for all
 - chmod 755 - rwx for owner, rx for group and world
 - for more options, see man chmod.

vi / vim 键盘图



Esc 退出

Legend:

- 绿色: 基本编辑, 删除以及插入的编辑
- 黄色: 光标移动与定位
- 橙色: 查找, 替换, 宏, 窗口管理
- 蓝色: 窗口管理

常用命令:

- rw (w/w), cq (取消), qf (不保存退出)
- re f (保存退出), O (插入一行)
- chaw/y/g ('/' 命令替换 's')
- ih (在行 in vim), onew (在行 in vim)

其它重要命令:

- CTRL-R: 重读 (vim)
- CTRL-F/zh: 上屏/下屏
- CTRL-E/zh: 上屏/下屏
- CTRL-V: 全屏模式 (vim only)

快捷键:

- Ctrl+(h): 光标向左
- Ctrl+(l): 光标向右
- Ctrl+(k): 光标向上
- Ctrl+(j): 光标向下

备注:

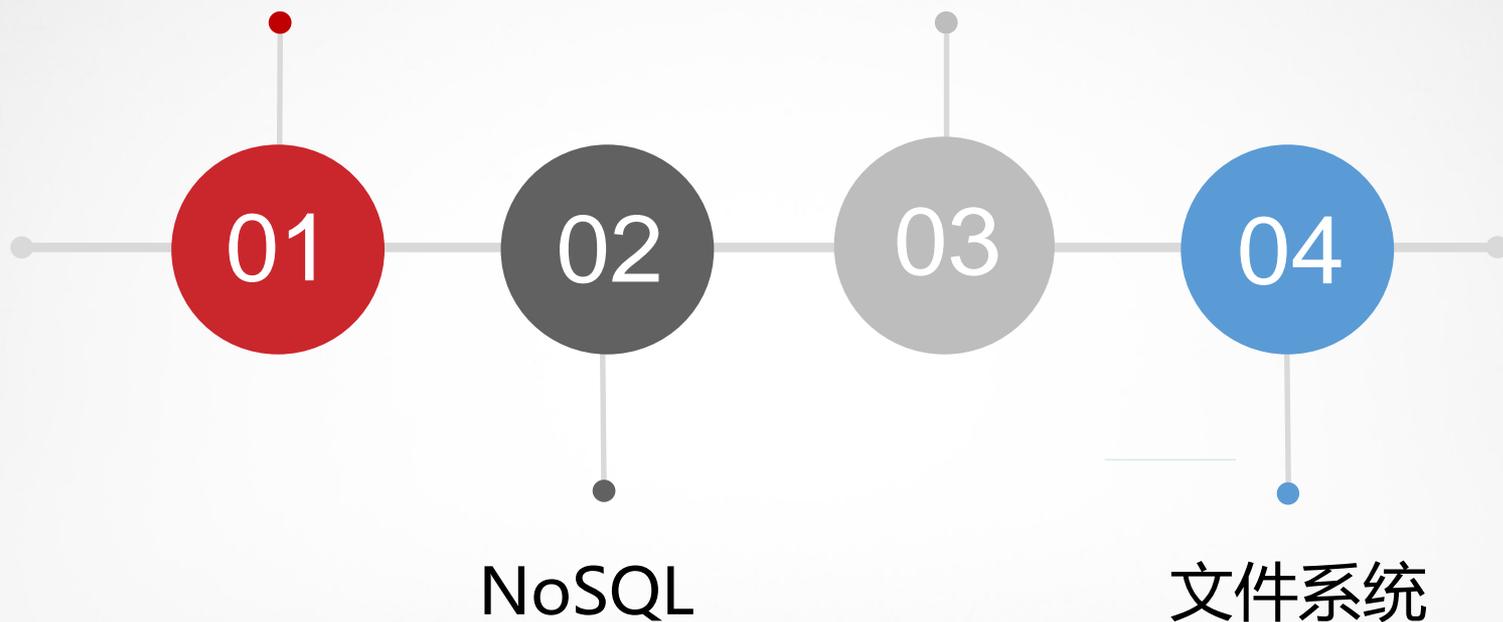
- (O) 点: 插入/删除/替换 命令的缩写 "a (s/w/e/a/r)" 使用命令的缩写时"加双引号"
- (H) "set" 指令在刚启动 vim 时并不生效 "w"
- (4) 数字: 命令的倍数 (e.g.: 2j, 5k, 10q)
- (4) 括号: 命令的嵌套 (例如: 2j, 5k) 再行操作 (例如: 2j, 5k) 再行操作
- (4) 冒号: 命令的缩写 (例如: :wq, :q!)
- (4) 波浪线: 命令的缩写 (例如: :wq, :q!)
- (4) 波浪线: 命令的缩写 (例如: :wq, :q!)
- (4) 波浪线: 命令的缩写 (例如: :wq, :q!)

官网: www.vim.org 昵称: full (linuxie)



关系型数据库

文件对象







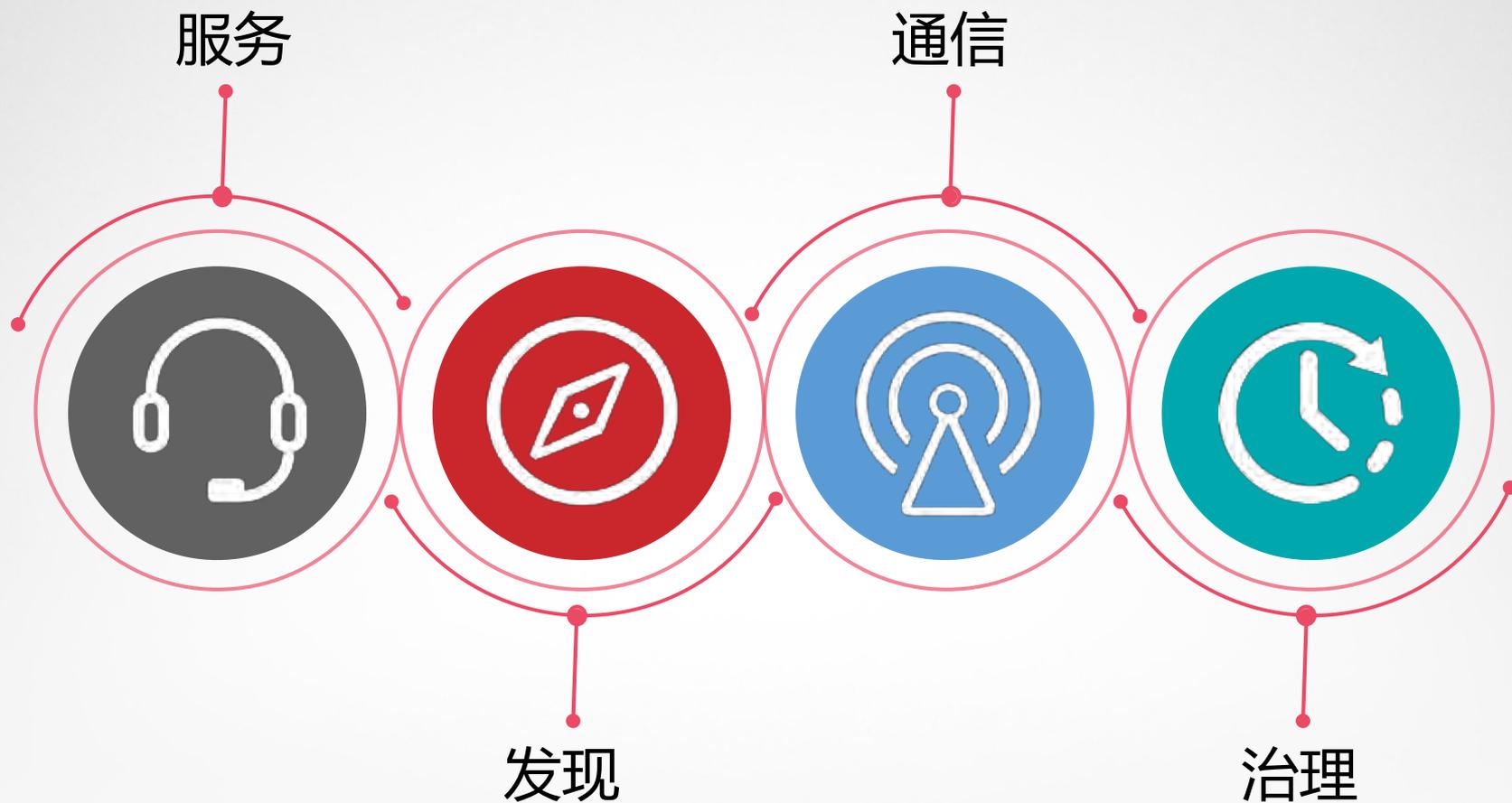
技能——安全

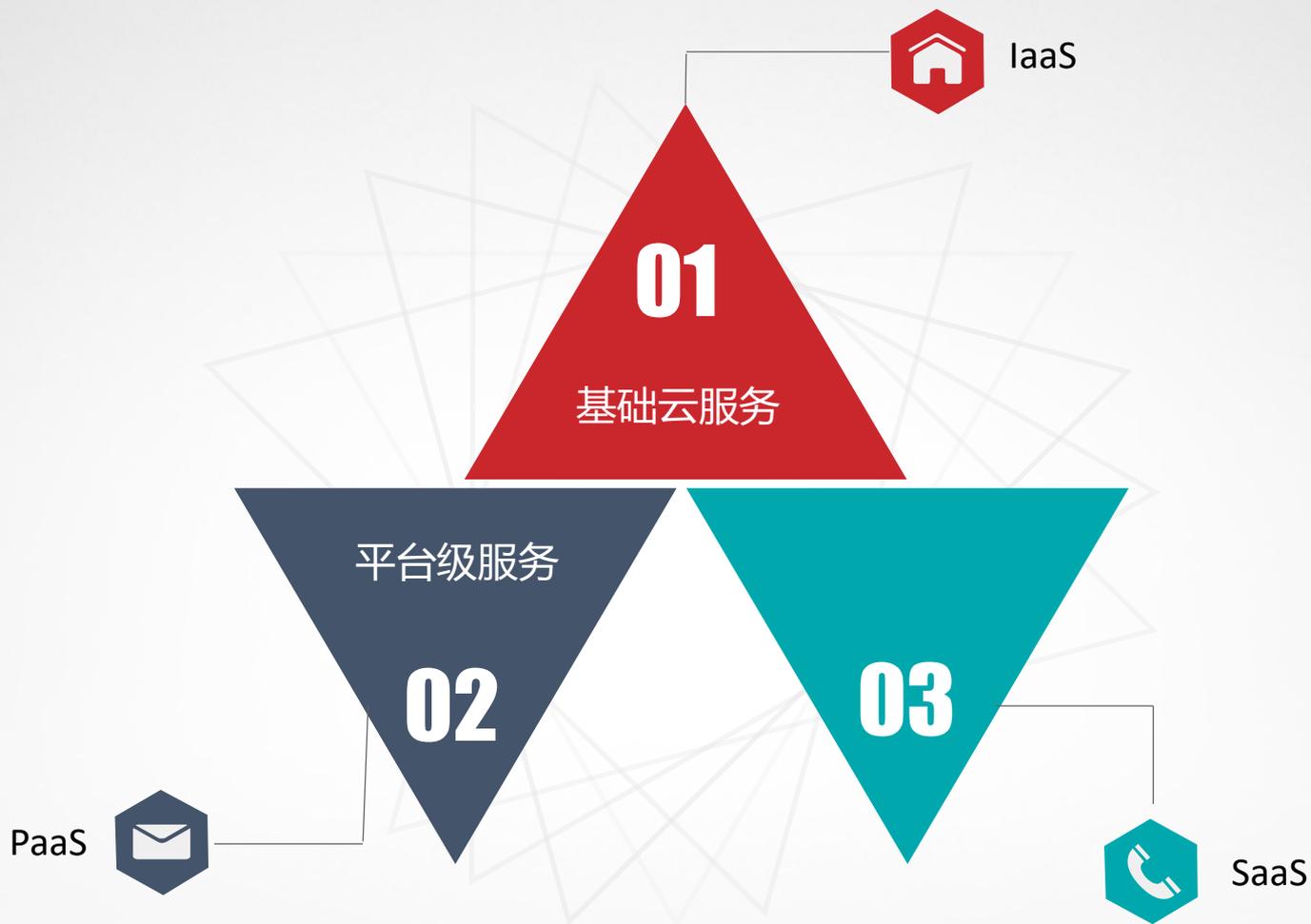
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技能——微服务





技能——大数据

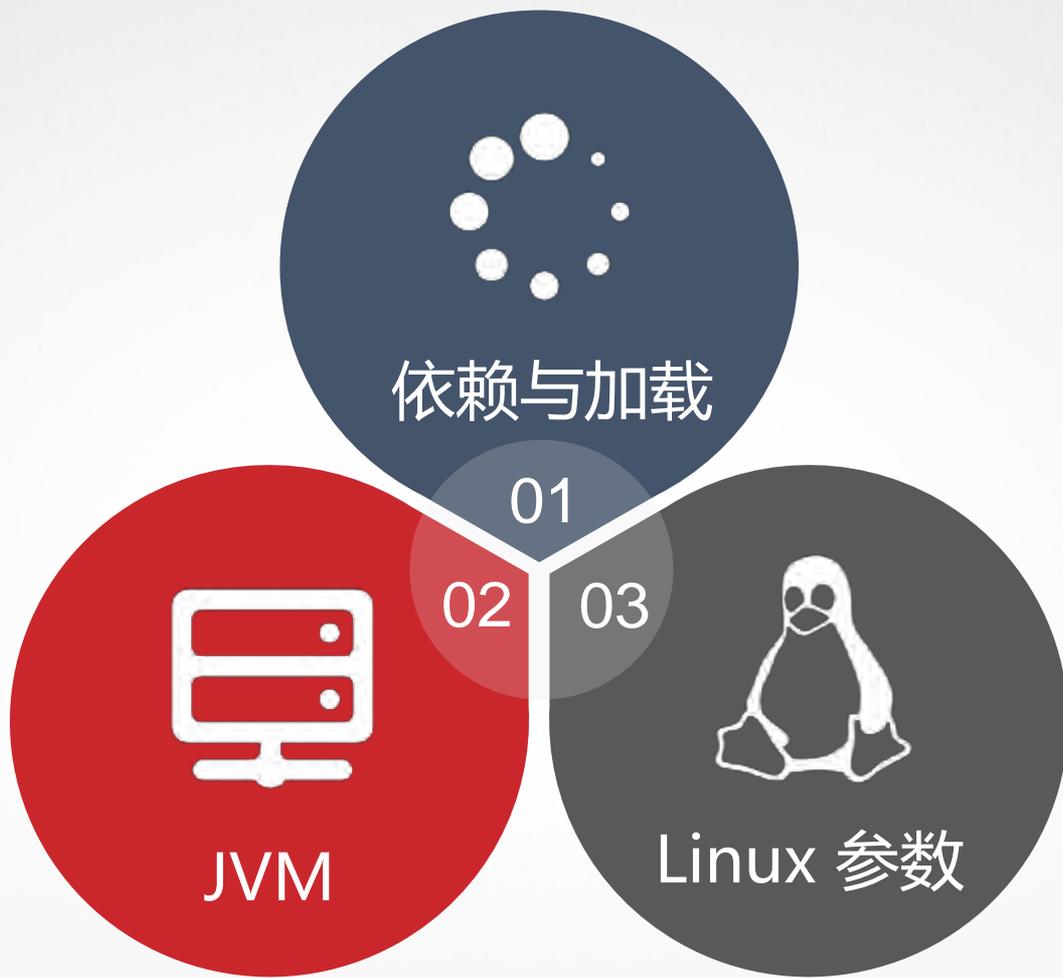
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性能——运行时调优

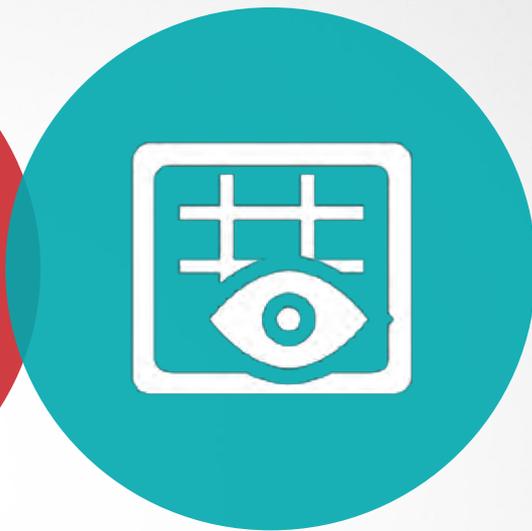




连接池



高可用

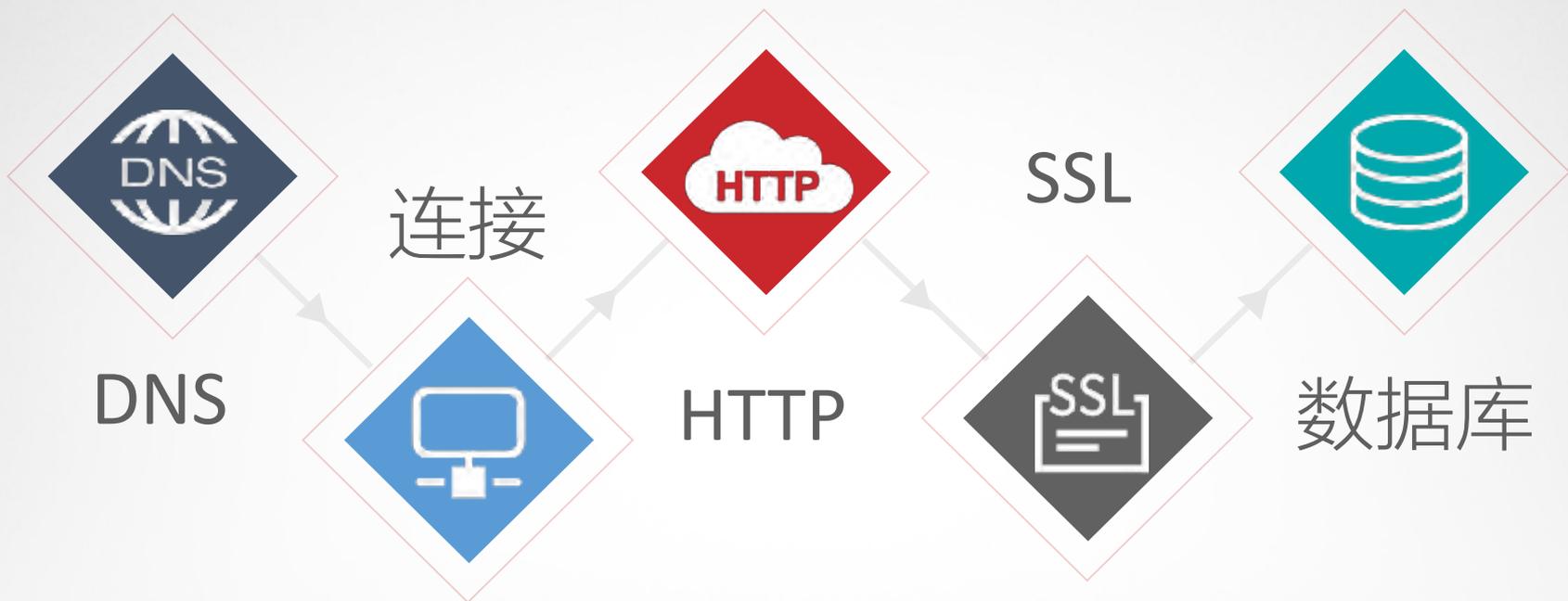


日志分析

性能——缓存



性能——均衡



性能——消息队列

01

ZeroMQ，系统内最爱

02

ActiveMQ，面向JMS的队列实现

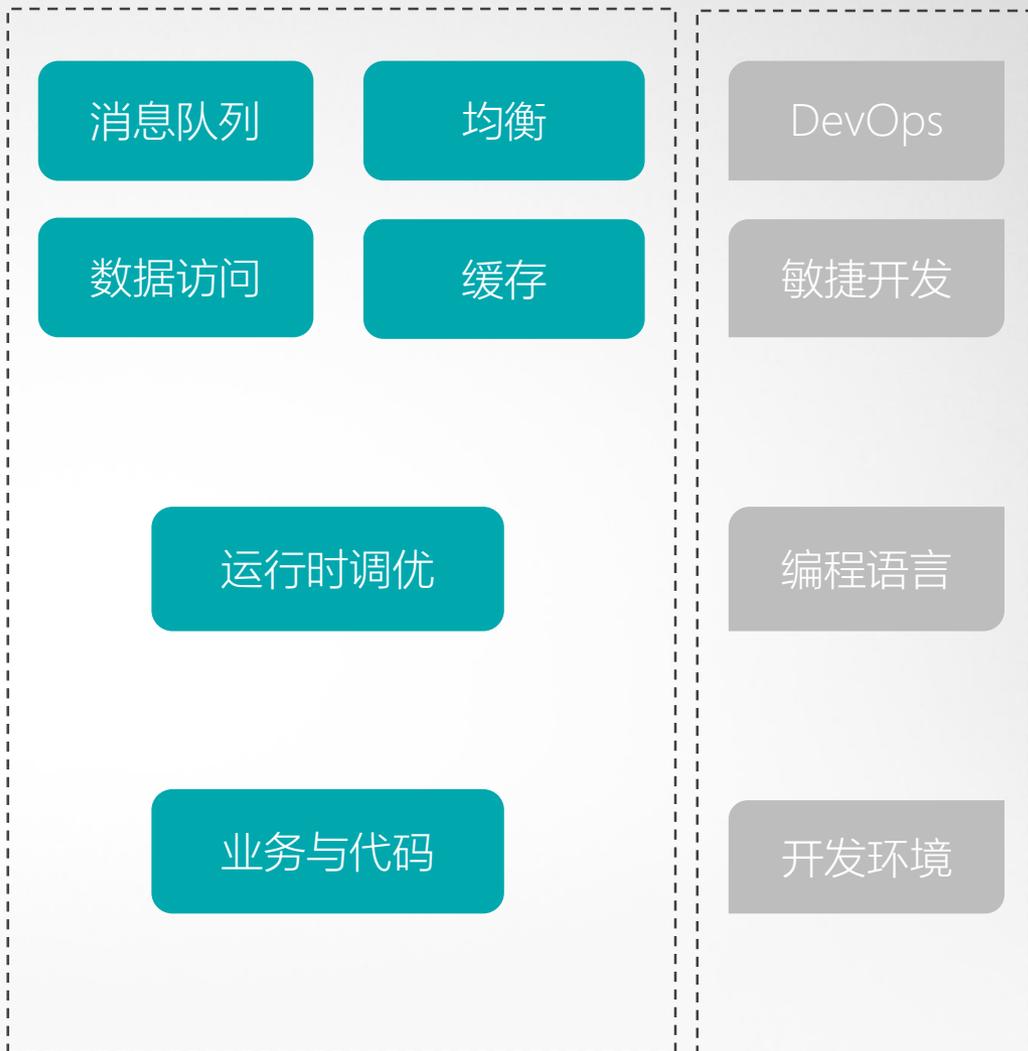
03

RabbitMQ，Erlang的实现

04

Kafka，大数据量传输必备

全栈的技术栈回顾



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THANKS!

Q&A



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