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2017，继续上路，**你的支持是我最大的动力**。

# @-2017-01-【架构师之路2017半年精选40篇】-清单

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《[mysql并行复制优化思路](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959461&idx=1&sn=c4c9317f55075541be00d59039b88470&scene=21#wechat_redirect)》

《[互联网公司为何不使用mysql分区表](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959604&idx=1&sn=9f3e21f5ff99abc5a16038a77f31843e&scene=21#wechat_redirect)》

《[即使删了全库，保证半小时恢复](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959694&idx=1&sn=4ac53b797fca64229901373e793f860a&chksm=bd2d04528a5a8d44618333de549094569f9ec58833ab64d081bc826b9361f587aca2972fc4c6&scene=21#wechat_redirect)》

《[啥，又要为表增加一列属性](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959762&idx=1&sn=f7d8d7648416a0157af6ac61a6b555c8&chksm=bd2d040e8a5a8d181ec1baa2e96982991ddfc218bb6838f38da61b651e4b8de5f0bbbd94f814&scene=21#wechat_redirect)》

《[续集：这才是真正的表扩展方案](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959765&idx=1&sn=b9916aa95c320e41035977e0a8098ca6&chksm=bd2d04098a5a8d1f3af38f658c05002151e621170949d2e3bb5b1bceea55c64b0477dba4c647&scene=21#wechat_redirect)》

《[瞬间掌握数据库垂直拆分](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959773&idx=1&sn=7e4ad0dcd050f6662dfaf39d9de36f2c&chksm=bd2d04018a5a8d17b92098b4840aac23982e32d179cdd957e4c55011f6a08f6bd31f9ba5cfee&scene=21#wechat_redirect)》

《[**数据库秒级平滑扩容方案**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959883&idx=1&sn=e7df8510c7096a5b069e0f12eaaca010&chksm=bd2d07978a5a8e815c2ae41b16b6b4c579923502fb919008a22bb108a1e920109f25387f8903&scene=21#wechat_redirect)》

**【服务化与为服务】**

《[**互联网架构为什么要做服务化**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959519&idx=1&sn=065074b135fc9cb243abe897261e1a72&scene=21#wechat_redirect)》

《[微服务架构究竟多“微”合适](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959530&idx=1&sn=ff84bd74745eee1577e7dfef8ce66bbe&scene=21#wechat_redirect)》

《[要想微服务，先搞定RPC框架](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959553&idx=1&sn=c1084e91875721c5f6baf544450afa38&scene=21#wechat_redirect)》

《[RPC-client序列化原理与细节](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959558&idx=1&sn=610f06c6d62a5c22311d27cf40f758ef&scene=21#wechat_redirect)》

《[RPC-client异步收发细节](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959576&idx=1&sn=2be8d3f61effe7118abf920a175da710&scene=21#wechat_redirect)》

**【消息系统】**

《[**微信为什么不丢消息**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959606&idx=1&sn=f9561231dd33bcd0550b8d0d59d6b876&chksm=bd2d04ea8a5a8dfce90c870279a7f74b7aedd802c2d699dd919d7e40ebe30699381517c2d54b&scene=21#wechat_redirect)》

《[微信为什么不丢“离线”消息](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959629&idx=1&sn=053d85a862df6e6c01147a1cf95bdbf2&chksm=bd2d04918a5a8d87a32305fa8ef1603bb0e73e5c4b78afb5a144327841e08840188c4541b4aa&scene=21#wechat_redirect)》

《[群消息这么复杂，怎么做到不丢不重](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959643&idx=1&sn=844afa6a31770fa587474ecd73c3b3b3&chksm=bd2d04878a5a8d91c5c93ad8e85254185c63eb419457efbedcba54a9b8a9053da1e8980a694a&scene=21#wechat_redirect)》

《[多点登陆，消息漫游架构随想](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959651&idx=1&sn=959540719a8336bd6f507a324dc7219a&chksm=bd2d04bf8a5a8da9ddfaeb106b61386adeb51c2ad7d4a32589c9a9e113f9341604a490eebb98&scene=21#wechat_redirect)》

《[QQ状态同步究竟是推还是拉](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959618&idx=1&sn=912a9af6d000c6681dc645e53590729b&chksm=bd2d049e8a5a8d884f6acb35bc5b40edf88127219542c9e3033bb4c2e33854657c315c8a93b7&scene=21#wechat_redirect)》

《[消息时序与一致性为何这么难](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959666&idx=1&sn=fbdce26e40296d5b30f70915c4b9eb0a&chksm=bd2d04ae8a5a8db868df14904d0a1ddb4eb4d8411442f5529f9760e7c62fca586cfa6f3bd200&scene=21#wechat_redirect)》

《[58到家通用消息平台架构细节](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959410&idx=1&sn=b91b5721ca394d15fb391097eddb752d&scene=21#wechat_redirect)》

《[微信为什么这么省流量](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959676&idx=1&sn=0204f47f3ecad9034d0a3607914d25c3&chksm=bd2d04a08a5a8db61f7d98d811b703847a5c7e04356b70fbd7ae741848eb427ed17d31011ae3&scene=21#wechat_redirect)》

《[即时通讯协议设计选型](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959701&idx=1&sn=89850966b5e807097f8d273009104c50&chksm=bd2d04498a5a8d5f49e98825accf6fc3d3dd4edd49d92a0012befa992454c82191cbd4efa4be&scene=21#wechat_redirect)》

《[**http如何像tcp一样实时的收消息**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959605&idx=1&sn=21f25087bef3c3a966ef03b824365621&scene=21#wechat_redirect)》

**【架构实践】**

《[**58同城架构演进，流量从0到10亿**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400276397&idx=1&sn=ea044079667b82f6cad58bcb743af7bc&scene=21#wechat_redirect)》

《[58同城推荐系统架构设计实践](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959464&idx=1&sn=81c29bf2e237499be07deba826f73c39&scene=21#wechat_redirect)》

《[58转转从0开始推荐系统实践](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=402978440&idx=1&sn=f0ec24d9f3c81fe49868d12a5128fcc9&scene=21#wechat_redirect)》

《[58到家O2O快速个性化推荐](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=403209303&idx=1&sn=f4fea7390b3a2c31e693189aee44af59&scene=21#wechat_redirect)》

《[58到家入驻微信钱包的架构优化](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959423&idx=1&sn=19d27145beab5b0238280e2e3804e41b&scene=21#wechat_redirect)》

《[58到家快速搭建立体化监控平台之路](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959433&idx=1&sn=9c9a222c06b2426f3935b04a10f90c0b&scene=21#wechat_redirect)》

《[高并发下，余额扣减一致性实践](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400556481&idx=1&sn=42bc187b45e4e53aece4b8c1f43e8019&scene=21#wechat_redirect)》

《[百度是怎么做长文本去重的](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=403419223&idx=1&sn=7f45d6bf8af2e2e87349570ab93af441&scene=21#wechat_redirect)》

《[快速实现高并发短文检索](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959451&idx=1&sn=991d9c3737d7db50a8351d50cdf6419d&scene=21#wechat_redirect)》

《[快速实现高并发无锁缓存](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959502&idx=1&sn=7a1c7d81a8e030856fb920844dc571c6&scene=21#wechat_redirect)》

《[id串行化到底是怎么实现的](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959668&idx=1&sn=d4c13071ab619c891efa03ba4e05334e&chksm=bd2d04a88a5a8dbe4ea606c4970be60c5f5c00f3e4cceeb91b26c8975b45678440c516012e79&scene=21#wechat_redirect)》

《[**58到家从IDC到云架构平滑迁移实践**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959495&idx=1&sn=0f8789d6803f94e190ba2787389e6d1b&scene=21#wechat_redirect)》

**【一分钟系列】**

《[1分钟1副图看懂单机/集群/热备/磁盘阵列](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400720056&idx=1&sn=10c796793e27d475603f97b23e137c12&scene=21#wechat_redirect)》

《[1分钟awk够用，收藏后备用](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400743254&idx=1&sn=147abc381ccd61e28f52699735c8748e&scene=21#wechat_redirect)》

《[1分钟perl够用，收藏后备用](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400764946&idx=1&sn=4efab1953696c2e21071e58a74da9b82&scene=21#wechat_redirect)》

《[1分钟sed够用，收藏后备用](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=403340380&idx=1&sn=9b4ced5a19f60b0cebf6fd582f1d52ae&scene=21#wechat_redirect)》

《[1分钟了解两阶段提交2PC](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400856212&idx=1&sn=b9734da77f2259bdd1fa89700b47eaff&scene=21#wechat_redirect)》

《[1分钟1副图彻底搞懂join](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=400889133&idx=1&sn=3ea1c06fc76e92349a822f41f45b77b5&scene=21#wechat_redirect)》

《[**1分钟写好连接池**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959821&idx=1&sn=4ede084b05ce81a9a5ddb87ec62434bb&chksm=bd2d07d18a5a8ec7726619dbb9f1e99df8239ebd07d5f01d748e01c08dd543f0a434945301c6&scene=21#wechat_redirect)》

《[1分钟实现分布式锁](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959749&idx=1&sn=6727638930905089342662c24f5bba62&chksm=bd2d04198a5a8d0f619f1b9be1ead542f015e6ff87b5aac5a61af94b714459964fedb89e6516&scene=21#wechat_redirect)》

《[续集：这才是真正的分布式锁](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959755&idx=1&sn=e0875b539895578ce966fdad7f3c0365&chksm=bd2d04178a5a8d01a66d30b5ac8958fc5a6108e6e1d90a265361a7d3b30197bcb51f4433f23b&scene=21#wechat_redirect)》

**【通用素质】**

《[心态：晋升的为何不是你](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=404332602&idx=1&sn=a50ed411c893f6aeadbd66a25d31b94c&scene=21#wechat_redirect)》

《[鸡汤：你的收入取决于你的努力程度](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959534&idx=1&sn=1f2f3b92332439cd65a3f1e69391f55f&scene=21#wechat_redirect)》

《[爱女友：“我穿这衣服好看吗”终于破解了](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959561&idx=1&sn=60fcc75435a80280aebe8faffd28fda5&scene=21#wechat_redirect)》

《[管理：一分钟经理人](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959737&idx=1&sn=5d6f3fd25f6473e77f54269a1b384565&chksm=bd2d04658a5a8d7389fe8cb761dcc494498e5a330fb4b9db1d760d35f7ce8df26fc788227e6d&scene=21#wechat_redirect)》

《[访谈：架构师到底该不该写代码](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959776&idx=1&sn=10a8bcb1277fdd6bfb9e24b816697038&chksm=bd2d043c8a5a8d2a9b3e6638c855da30e2910b17a7f6d435118fb1fe09a99fb85950d98b4d63&scene=21#wechat_redirect)》

《[**如何做一场B格满满的技术大会演讲**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959675&idx=1&sn=98c61e127f4b82ca3ba86ff369dfdb3c&chksm=bd2d04a78a5a8db1f5de8c39a1398b8812ff2b9961642f7b813293ade34f602d42ea127b85aa&scene=21#wechat_redirect)》

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# 02-【架构师之路2017半年精选40篇】-正文

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**【通用设计与方法论】**

**《**[**单KEY业务，数据库水平切分架构实践**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960212&idx=1&sn=ab4c52ab0309f7380f7e0207fa357128&chksm=bd2d06488a5a8f5e3b7c9de0cc5936818bd9a6ed4058679ae8d819175e0693c6fbd9cdea0c87&scene=21#wechat_redirect)**》**

《[架构设计中常见“反向依赖”与解耦方案](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960049&idx=1&sn=2787e73be4ea31f52213a2b934a16e09&chksm=bd2d072d8a5a8e3b71cef58f313743a6db6f83889748deb7f8f866817511df98adc5e03db39c&scene=21#wechat_redirect)》

《[互联网架构如何实现“高可用”](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959728&idx=1&sn=933227840ec8cdc35d3a33ae3fe97ec5&chksm=bd2d046c8a5a8d7a13551124af36bedf68f7a6e31f6f32828678d2adb108b86b7e08c678f22f&scene=21#wechat_redirect)》

《[互联网架构如何实现“高并发”](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959830&idx=1&sn=ce1c5a58caed227d7dfdbc16d6e1cea4&chksm=bd2d07ca8a5a8edc45cc45c4787cc72cf4c8b96fb43d2840c7ccd44978036a7d39a03dd578b5&scene=21#wechat_redirect)》

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**【典型架构实践】**

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**《**[**session一致性架构设计实践**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960128&idx=1&sn=8e0e409b10ab9db549432af461385314&chksm=bd2d069c8a5a8f8ab5cdee602d4062bbdbb25da290668515d36682afa854e374d2a5ff02004b&scene=21#wechat_redirect)**》**

《[TCP接入层的负载均衡、高可用、扩展性架构设计](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960086&idx=1&sn=70bbe7165ecddc7896767f4503a927fe&chksm=bd2d06ca8a5a8fdc67fcacb169583f53a968fdf623a20395926059d44e6abae6b2e56ff1f9f9&scene=21#wechat_redirect)》

**《**[**配置中心架构设计演进**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960061&idx=1&sn=3747338a91e85fc33f43d9c1bb98ab10&chksm=bd2d07218a5a8e37ad2e5078736d2449a6ba1e0d75bb18d09990a5f3dcc3af2b7ff414158adb&scene=21#wechat_redirect)**》**

《[跨公网调用的大坑与架构优化](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960105&idx=1&sn=0069f2264e227e86a63ee50a4899e0a7&chksm=bd2d06f58a5a8fe33271ed3a378932ad023af7a9004d7fdb44e30a53d53928f984f293a41256&scene=21#wechat_redirect)》

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《[互联网智能广告系统简易流程与架构](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960148&idx=1&sn=7c8a2d789fb20981355e49c3defe0229&chksm=bd2d06888a5a8f9e5ef5cf6cfa415d06800f5468148a0ba7a802e646aeec9610823ec0fc6d5d&scene=21#wechat_redirect)》

**【数据库】**

**《**[**100亿数据量1万属性10万并发数据库架构设计**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959855&idx=1&sn=f33abe8ec598c273f29cebb9365ece59&chksm=bd2d07f38a5a8ee58a944507a134e1da1efc3ac9c4d1c4cff261137cd986e51f5fe7cee9de15&scene=21#wechat_redirect)**》**

《[数据库秒级平滑扩容架构方案](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959883&idx=1&sn=e7df8510c7096a5b069e0f12eaaca010&chksm=bd2d07978a5a8e815c2ae41b16b6b4c579923502fb919008a22bb108a1e920109f25387f8903&scene=21#wechat_redirect)》

**《**[**58到家数据库30条军规**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959906&idx=1&sn=2cbdc66cfb5b53cf4327a1e0d18d9b4a&chksm=bd2d07be8a5a8ea86dc3c04eced3f411ee5ec207f73d317245e1fefea1628feb037ad71531bc&scene=21#wechat_redirect)**》**

《[再议数据库军规](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959910&idx=1&sn=6b6853b70dbbe6d689a12a4a60b84d8b&chksm=bd2d07ba8a5a8eac6783bac951dba345d865d875538755fe665a5daaf142efe670e2c02b7c71&scene=21#wechat_redirect)》

**《**[**业界难题-“夸库分页”的四种方案**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959942&idx=1&sn=e9d3fe111b8a1d44335f798bbb6b9eea&chksm=bd2d075a8a5a8e4cad985b847778aa83056e22931767bb835132c04571b66d5434020fd4147f&scene=21#wechat_redirect)**》**

《[100亿数据平滑迁移却不影响服务](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959992&idx=1&sn=eb2fbd7d7922db42a593c304e50a65b7&chksm=bd2d07648a5a8e72d489022ec6006274d7e43ab48449b255d5661658c2af8e9221977a9609ed&scene=21#wechat_redirect)》

《[MySQL-proxy数据库中间件架构](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960133&idx=1&sn=07acfeac5306f92f81dfccf4c880da4f&chksm=bd2d06998a5a8f8fc8c3bbb2c2ea01825ebe6576a35aa4d9789774dba0f7964baf4edf584f1b&scene=21#wechat_redirect)》

《[用uid分库，那uname上的查询怎么办](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960032&idx=1&sn=1f818d415842d544dc33ab78e8adffea&chksm=bd2d073c8a5a8e2a38e7534d57ca0cad613893b9c3b578a220c4beef5d7495c5a1569cf4768e&scene=21#wechat_redirect)》

**【一分钟系列】**

《[1分钟了解四层/七层反向代理](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960131&idx=1&sn=a3bbcbe03f9e12d32ba751ce6ffae067&chksm=bd2d069f8a5a8f895fed39cad842f6f5a390bb18493f964b910270128f19f0b8af1d1f30b5c7&scene=21#wechat_redirect)》

**《**[**1分钟写好连接池**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959821&idx=1&sn=4ede084b05ce81a9a5ddb87ec62434bb&chksm=bd2d07d18a5a8ec7726619dbb9f1e99df8239ebd07d5f01d748e01c08dd543f0a434945301c6&scene=21#wechat_redirect)**》**

《[1分钟理解负载](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959912&idx=1&sn=ebe3320f91f11df7e1d0f54ec639f31c&chksm=bd2d07b48a5a8ea2356749aecef4d7d1a9e9ca75e02b51da255393396165e50a0a6aa2ea80b5&scene=21#wechat_redirect)》

《[1分钟理解领导者-跟随者线程模型](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959914&idx=1&sn=3600fc162970b39afe25d65bee10cd2e&chksm=bd2d07b68a5a8ea03c2b1372345991b74aa412b7fd96cc82e9ed0eb38e8dd481bf5d8b7b631c&scene=21#wechat_redirect)》

**【一致性问题】**

《[库存扣多了，到底怎么整](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960197&idx=1&sn=2e5c17d521772d28d39f31af5d22b34a&chksm=bd2d06598a5a8f4f9de2da89ba8fab711823935442fc632b65d461c923852485ff392c987568&scene=21#wechat_redirect)》

《[再议库存扣减多种方案](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960200&idx=1&sn=fdec629caceee07b3946b6c338b8ceb7&chksm=bd2d06548a5a8f424dd32be960222edf5cecc3c1e5a8fcbb4cfff35e7da6787e702861131597&scene=21#wechat_redirect)》

**《**[**浅谈CAS在分布式ID生成方案上的应用**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960223&idx=1&sn=121716347174eedd6636b1c2c0b96047&chksm=bd2d06438a5a8f55d35add7dc99940c280264fa7caeacb21f7dc79884d00c050d0367a745f87&scene=21#wechat_redirect)**》**

《[CAS下ABA问题及优化方案](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960240&idx=1&sn=18c4ce7c3baf6705940847c1c9bf49e3&chksm=bd2d066c8a5a8f7a27acb5603611b5cbcf6396a8a5e5d06571dcd41deaa64e615b097e84fef3&scene=21#wechat_redirect)》

**【搜索架构】**

**《**[**深入浅出搜索引擎架构、方案与细节**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959895&idx=1&sn=de25ce2544c088ff9be0b93fd3ea4d15&chksm=bd2d078b8a5a8e9d5ae4339a683d3f980ff2994f3c10c4081c7bab7f0d77f37521de95e974bf&scene=21#wechat_redirect)**》**

《[如何迅猛的实现搜索需求](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959917&idx=1&sn=8faeae7419a756b0c355af2b30c255df&chksm=bd2d07b18a5a8ea75f16f7e98ea897c7e7f47a0441c64bdaef8445a2100e0bdd2a7de99786c0&scene=21#wechat_redirect)》

《[58同城如何检索到1秒前发布的帖子](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959949&idx=1&sn=83f78cf6293714bd1fd97a11ff7c2c35&chksm=bd2d07518a5a8e47e6fce9fc03cddec1d8a43f2b4ac67cfbbf73a55143593da8a132da7a0815&scene=21#wechat_redirect)》

**【消息总线架构】**

**《**[**到底什么时候该使用MQ**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960012&idx=1&sn=c6af5c79ecead98daa4d742e5ad20ce5&chksm=bd2d07108a5a8e0624ae6ad95001c4efe09d7ba695f2ddb672064805d771f3f84bee8123b8a6&scene=21#wechat_redirect)**》**

《[MQ如何实现消息幂等](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960002&idx=1&sn=c0775231bccf002c3178eabe43f1cdcb&chksm=bd2d071e8a5a8e08c3a5287247ea41dee6b2621e6ffafbf909ec1e8a866b7c816eeeea227246&scene=21#wechat_redirect)》

《[MQ如何快速实现削峰填谷](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960021&idx=1&sn=4bbe275c249a70ab20e36959fc01d4e0&chksm=bd2d07098a5a8e1fd9b505778b551002ab59c35953fa3deaaddc79e3f21bcea5ff48076b4a89&scene=21#wechat_redirect)》

《[定时任务如何高效触发](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959957&idx=1&sn=a82bb7e8203b20b2a0cb5fc95b7936a5&chksm=bd2d07498a5a8e5f9f8e7b5aeaa5bd8585a0ee4bf470956e7fd0a2b36d132eb46553265f4eaf&scene=21#wechat_redirect)》

《[快速实现“延迟消息”功能](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959961&idx=1&sn=afec02c8dc6db9445ce40821b5336736&chksm=bd2d07458a5a8e5314560620c240b1c4cf3bbf801fc0ab524bd5e8aa8b8ef036cf755d7eb0f6&scene=21#wechat_redirect)》

《[MQ如何实现消息必达](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959966&idx=1&sn=068a2866dcc49335d613d75c4a5d1b17&chksm=bd2d07428a5a8e54162ad8ea8e1e9302dfaeb664cecc453bd16a5f299820755bd2e1e0e17b60&scene=21#wechat_redirect)》

**【通用】**

**《**[**如何精准理解leader布置的任务**](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960035&idx=1&sn=e0a14e8539b001e4d6d149164987235b&chksm=bd2d073f8a5a8e290202fcdfac077744eab84e6549e0608698ae5e1d3ed221ee97ca21f42e6f&scene=21#wechat_redirect)**》**

《[如何快速精准的和leader沟通](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960073&idx=1&sn=3ac3bb78bb643d73e9e68d713d6eceeb&chksm=bd2d06d58a5a8fc378e7cde71808c09dea9b4d5462deec0238a3d6f0ade62976a3d2bd0faafb&scene=21#wechat_redirect)》

《[迟到是会议最大的敌人](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960065&idx=1&sn=94cfa99d6244d68a6d1c4ca8aeb723d7&chksm=bd2d06dd8a5a8fcb406d89e8817892948e67d7bb8adca5a5004ae46dde40099e12a39754be9b&scene=21#wechat_redirect)》

《[运维苦，运维说说心底话](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960076&idx=1&sn=bf57176ba98c6e8c376ee6705405c925&chksm=bd2d06d08a5a8fc64ef401a40c24ae92cfab43c25a60c1f95e1ab6d72ca770c8f825b0a03c23&scene=21#wechat_redirect)》

《[职场中的选择与拒绝](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960095&idx=1&sn=227b8e3ee3027fcf2180fa12f771995e&chksm=bd2d06c38a5a8fd58610bd771b18ddf257e14dc2248101b249ae59432ed257d4bbfd02f2efaf&scene=21#wechat_redirect)》

《[罗振宇送给新员工的四句话](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960162&idx=1&sn=0a4814e76ae98f7b4597205bc9b4402c&chksm=bd2d06be8a5a8fa8ea9cac53144d780160c853329af461b6ffa2d8002f93425c394140d1edb3&scene=21#wechat_redirect)》

# 03-【架构师之路，季度精选40篇】-正文

**【特别推荐】**

《[架构师之路2016年精选66篇](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651959886&idx=1&sn=03e45a5014053607eff5e55ed2c660d7&chksm=bd2d07928a5a8e8454d395e176fa9d346682abfe9dfbf3244f1dead83ee4508aa25121f9b811&scene=21#wechat_redirect)》10W+

《[架构师之路2017上半年精选40篇](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960243&idx=1&sn=c5d0de35c6d87e08370eef4179ff66bb&chksm=bd2d066f8a5a8f79a3478591e44054a1838e6aa8a35e544a5eb42b38cb274de6501a6b3b77e5&scene=21#wechat_redirect)》5W+

**【通用设计与方法论】**

《[分布式ID生成器](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960245&idx=1&sn=5cef3d8ca6a3e6e94f61e0edaf985d11&chksm=bd2d06698a5a8f7fc89056af619b9b7e79b158bceb91bdeb776475bc686721e36fb925904a67&scene=21#wechat_redirect)》2W+

《[工作线程数究竟设置为多少合适](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960260&idx=1&sn=051fd566d43d7fd35724bdf55484ee5f&chksm=bd2d06188a5a8f0e64467381c7b3df5bdcb7f81ba055d5d21ec2f8b888492be15527d23070b0&scene=21#wechat_redirect)》

《[消息如何在网络上安全传输](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960315&idx=1&sn=8592c5cd15732096bb3b84b3074a2d37&chksm=bd2d06278a5a8f310e3ac5bcdf82b5ec0815a3175466b999d58e173c89900dec00a55aa3f0bb&scene=21#wechat_redirect)》

《[用车业务，里程如何精准计算](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960355&idx=1&sn=6f755ffa6fa1901ddf5f1da72e1ef686&chksm=bd2d01ff8a5a88e9b060a437eacc25e9b29e56e04a347155810775879c7043dc97bdc7b0cc02&scene=21#wechat_redirect)》

《[URI设计原则](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960359&idx=1&sn=a036190cc369507aa67de9c9281fdc38&chksm=bd2d01fb8a5a88edd8b1750b8564a3e9eec90e19235f1fa7edce82ee2731e8beed668c9cc015&scene=21#wechat_redirect)》

**【线上实战】**

《[线上问题排查实战](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960323&idx=1&sn=e04af14d2ebf939133869e0f18bb0dd1&chksm=bd2d01df8a5a88c98c3cb94a99334a16b372fd997f36bc757a38bb44b70d977797fa840064dc&scene=21#wechat_redirect)》

《[CPU100%问题排查实战](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960332&idx=1&sn=63cb23e04ac4bf926434f34001c0718a&chksm=bd2d01d08a5a88c6a01e62533162cc3535defb37cefa61a800e405edda8240ad17432e023d53&scene=21#wechat_redirect)》2W+

《[内存OOM问题排查实战](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960342&idx=1&sn=9b2dbbb2cfd7710f25be1a0862a9b2be&chksm=bd2d01ca8a5a88dcc14608cb00e0dbde11869d053ee8c83bc96e7b4a0fbd71d28d7fbb009c98&scene=21#wechat_redirect)》

**【分层架构】**

《[互联网分层架构的本质](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960455&idx=1&sn=02cb2345ae9862edad11113726c49512&chksm=bd2d015b8a5a884d9619cdf7ae0dc1a480979a95abb24bac2645cecd54caec4c6bdb3aa617d7&scene=21#wechat_redirect)》

《[分层架构，为什么需要服务化](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960468&idx=1&sn=82bb21ff787f2ae3db2630e0823f3062&chksm=bd2d01488a5a885eb4bbd2470cbd5f2d92a473a45cac02a5d68f55b5d8f72cd8cbb38b18962a&scene=21#wechat_redirect)》

《[分层架构，是否需要业务服务层](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960482&idx=1&sn=feb27bdd202093a5e4747f7c043415d1&chksm=bd2d017e8a5a8868888e553a30559cb9eefa93e0a1da557342e1a13127ca67143ea87b721363&scene=21#wechat_redirect)》

**【数据库】**

《[或许你不知道的10条SQL技巧](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960280&idx=1&sn=da519cff7081ab347eb1aaa4f0f4f408&chksm=bd2d06048a5a8f123730ed91b60ac2f55ec5eb92774f24ec45c3fc0d004aea514e6fc3990e0e&scene=21#wechat_redirect)》3.5W+

《[MySQL双主一致性优化](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960253&idx=1&sn=cce01d9d305024b5cc7e1e7149507ae9&chksm=bd2d06618a5a8f77db3731e8687f9a116c0c3113a4b9a8574149530610dc95fbcf7e4ab92ae5&scene=21#wechat_redirect)》

《[MySQL冗余数据的三种方案](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960255&idx=1&sn=1bf42b6d8f5658f9d8b54274d62ca714&chksm=bd2d06638a5a8f757502004f4d206f1a4e0f3e8ab4b1d3ba0635308e7d5b7a30860ae6d91e0c&scene=21#wechat_redirect)》

《[MySQL索引or/in/union优化](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960277&idx=1&sn=bc452fbe863fd915c08f95a680e4bdbe&chksm=bd2d06098a5a8f1fa0262290a65b6a6634f84d394b072f701ed44a6df9dd4b9df8c926537a59&scene=21#wechat_redirect)》

《[帖子中心，数据库水平切分架构实践](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960274&idx=1&sn=81714a692f3c29395c6e2ff3e8f00350&chksm=bd2d060e8a5a8f188c90253a496c97661da7f3bcab9d42c48b95665fae3916b2c2cdc2ea33e6&scene=21#wechat_redirect)》

《[好友中心，数据库水平切分架构实践](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960302&idx=1&sn=ba3d794bd9cc42bead23b7877ad54643&chksm=bd2d06328a5a8f24d9d43a36093dc701c63393e61781ff7fa1e47e5d2ae0631edb7cf514bb6d&scene=21#wechat_redirect)》

《[订单中心，数据库水平切分架构实践](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960373&idx=1&sn=abf7d36840c4d3d556b17a8776ee536c&chksm=bd2d01e98a5a88ff0cbf615cb3444668ccdfca58d5dca2da00ed0cc8948585b7509adf648db0&scene=21#wechat_redirect)》

《[一分钟了解索引技巧](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960258&idx=1&sn=caf8295fa5c0ee47d6b9e6bf5cffcb49&chksm=bd2d061e8a5a8f08374ddc84a3c59355368b840ab38ba97782947e02c0d9d6d3c289032b3d39&scene=21#wechat_redirect)》2W+

**【概率相关】**

《[99%的人会答错的概率趣题](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960416&idx=1&sn=087d52f0df619b6caaf2dd329cb17a2a&chksm=bd2d01bc8a5a88aac995965c5f68a598cd89619ddd4ae472e4b2c24a0428f2a1fde4b2d98694&scene=21#wechat_redirect)》

《[解谜，99%的人会答错的概率趣题](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960419&idx=1&sn=763cc8ec95958bc3021c99bc5e357213&chksm=bd2d01bf8a5a88a91c6223a6d6db82cbbd4bbad9c15aac24e63fe39b885a3a460387a67599a8&scene=21#wechat_redirect)》

**【产品相关】**

《[如何量化评估互联网产品的满意度](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960472&idx=1&sn=2d8d5cdf44181ca6a2799cb254c4623a&chksm=bd2d01448a5a88523a0c6e6d5b16be56829904285bd048cce30d69c04f885d860aa9873d6db6&scene=21#wechat_redirect)》

**【通用技能】**

《[高效会议清单](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960288&idx=1&sn=9e0125914b05c5aadc8c3d8994ba9c09&chksm=bd2d063c8a5a8f2a4fd17e69df1bcafb893aa5f5f30963e934e034b95de9b519a5c245a931d3&scene=21#wechat_redirect)》

《[极限头脑风暴清单](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960291&idx=1&sn=f5d4d9612f382274b4f71afc3b2a4896&chksm=bd2d063f8a5a8f29a6d70576c7a6990ae18da186a4b3a540c418ea6c037b2370bc376ab9ff67&scene=21#wechat_redirect)》

《[台湾互联网技术感触](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960318&idx=1&sn=e429955b1bd07f28021a3776d349d3e3&chksm=bd2d06228a5a8f3452091250059076faec14cb427012858df0b7833af39dea56d3765fff5db1&scene=21#wechat_redirect)》

《[研发喜欢怎样的产品经理](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960306&idx=1&sn=703c41ba1b8be151031acca55fe3e979&chksm=bd2d062e8a5a8f38b221aa6c42af0215734a659c9aad414cf0dae5b2759d5d4d1b3a3831c586&scene=21#wechat_redirect)》3W+

《[产品经理喜欢怎样的研发](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960336&idx=1&sn=e940a74fc17e7b01d3862879140ef830&chksm=bd2d01cc8a5a88da38b2570a663fc13efbd39dc2b4e55027e18dafb39d3bf89001c4427f621e&scene=21#wechat_redirect)》2W+

《[四类员工，容易被扫地出门](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960400&idx=1&sn=b83adb583f90d402391ff201fa4c03c3&chksm=bd2d018c8a5a889a1fbfaf8100e87c6fcedf45333882ce9075f7dff6397cba2ca62d4379c02f&scene=21#wechat_redirect)》

《[四类leader，员工容易走人](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960404&idx=1&sn=1df66bbc877cd57faec19aa90b772ffe&chksm=bd2d01888a5a889e481b53590f6581a5ee09dae9ccf9401fbcbd0f0609a65201e424e64277bd&scene=21#wechat_redirect)》2W+

《[哪些职场心态阻碍晋升](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960430&idx=1&sn=51f9f11bb97528af397e824d36d1bc38&chksm=bd2d01b28a5a88a4b15631e2bf3553837d5b9979f8045e2a3f4de1aef9c08bc11aa644fbcd00&scene=21#wechat_redirect)》

**【历史文章系统化梳理】**

《[无限容量数据库架构设计](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960378&idx=1&sn=971a8db3251a232e3feeb7ff6235c96b&chksm=bd2d01e68a5a88f0f05c184340bcda81125ed1de772b35ef12b34c1f5f81c7b5a60cb8047f3c&scene=21#wechat_redirect)》2W+

《[MQ消息可达性+幂等性+延时性架构设计](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960382&idx=1&sn=72dae005c6662a936ea8fa80a4ed6001&chksm=bd2d01e28a5a88f400451195d2521ca668161364e3e62a9a42992299ce6baa5cbafa353d23d3&scene=21#wechat_redirect)》2W+

《[高可用+高并发+负载均衡架构设计](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960393&idx=1&sn=23cf8438b436c531c81b3f09a3d5e8fb&chksm=bd2d01958a5a88838e6ef493ccb1fe0854f7216f3863fbe9798eec5019dc58d73d4e95b3132f&scene=21#wechat_redirect)》3W+

《[关于数据库“扩展性”架构设计的一切](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960397&idx=1&sn=26422031c2a0139dcb6f454df45db2ac&chksm=bd2d01918a5a8887388a46e44b5372136bc79f70e1d5fc7c2b00a23321a4100e9eb128a5b83a&scene=21#wechat_redirect)》

《[关于互联网“一致性”架构设计的一切](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960408&idx=1&sn=8f4825caf8183d248c06b87e6bf28a20&chksm=bd2d01848a5a88925c263a24c15ff9c92e17f5486ca27d65c5905590f135d6c241ffe88f214a&scene=21#wechat_redirect)》

《[关于搜索需求，搜索架构的一切](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960422&idx=1&sn=cfb727d3cc3e3cccb2f458750adddda6&chksm=bd2d01ba8a5a88aca20e3988e4a641bdf6d754319125b0ee38cabbf8be04d6339f713a2bb1f9&scene=21#wechat_redirect)》

《[秒杀，推送，广告，推荐，计数-互联网非典型业务系统架构设计](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960426&idx=1&sn=da714f561577938128d43436650cdfd5&chksm=bd2d01b68a5a88a04195dfa0ed3cb208cb5d7d216d77ec5f45aeee2c2faec51dd2b556b9e6a6&scene=21#wechat_redirect)》

《[容量规划+单点优化+配置优化，架构师必须掌握的技能](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960436&idx=1&sn=c336b6160263bf5afa2e0aa47088861e&chksm=bd2d01a88a5a88be02af6ecf2b280b3c396b10061d39840ec6df14064fe212b3fc97951d3214&scene=21#wechat_redirect)》

《[架构师之路-1分钟系列汇总](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960440&idx=1&sn=3a2901447c80061779b41ad7d0ae14ce&chksm=bd2d01a48a5a88b27cf8c8a4a86bc32d82cd027e8218d91a76d743b678e04f4518402ea9a41e&scene=21#wechat_redirect)》

《[互联网软素质必备](http://mp.weixin.qq.com/s?__biz=MjM5ODYxMDA5OQ==&mid=2651960458&idx=1&sn=db9cde0a108d18dba002ad09cc847dc7&chksm=bd2d01568a5a88407aefc9015b294a5bc570a7fe2925a1ec4ccb79c69f201cf240db2ccaf6c9&scene=21#wechat_redirect)》

# ---------------------【操作落地】----------------------

# 01-【前端】-HTML&JS&CSS&前端框架

# 02-【分发】- DNS

# 03-【网络】-F5 & LVS & Nginx & HaProxy & Vanish…

# 04-【服务器】- Nginx & Apache & Tomcat

# 05-【Server Lanuage】-Java & Lua & Scala & python & Shell

# 06-【Cache】-Redis

# 07-【RDB & NoDB】-MySQL & Oracle & MongoDB & Hbase

# 08-【Search Engine】-ElasticSearch; Solr

# 09-【Big Data】-Hadoop & Spark

# 10-【Tools】-Zookeeper & Git &GitHub & Maven & Gradle