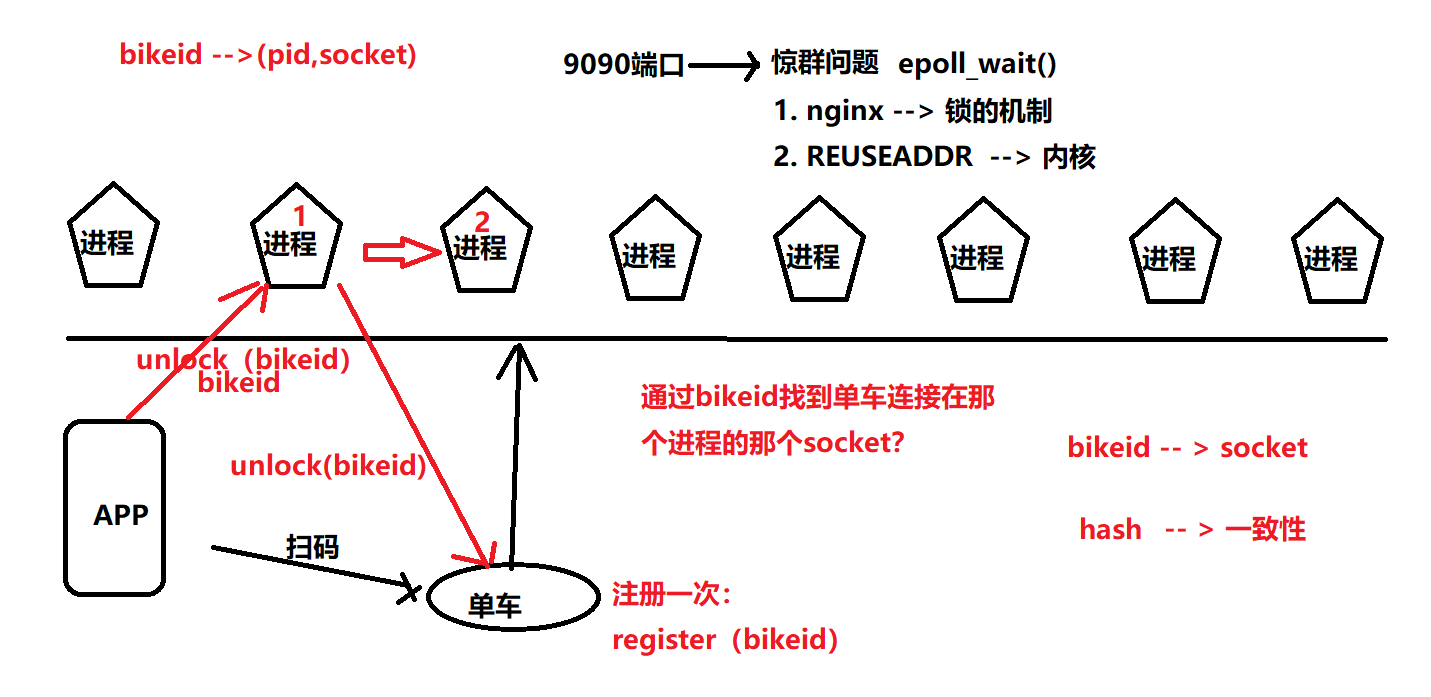
1. hash函数：<https://blog.csdn.net/u012834750/article/details/80005162>
2. 一致性hash算法：



一致性hash算法通过bikeid找对应的文件描述符。

如何移动文件描述符号：

ssize\_t sendmsg(int sockfd, const struct msghdr \*msg, int flags);

sockfd ： unix\_socket = socket(AF\_UNIX, type, 0);

error = socketpair(AF\_UNIX, type, 0, int \*sv);

msg ： msghdr：

struct msghdr {

void \*msg\_name; /\* optional address \*/ , NULL

socklen\_t msg\_namelen; /\* size of address \*/, 0

struct iovec \*msg\_iov; /\* scatter/gather array \*/ IO VECTOR

size\_t msg\_iovlen; /\* # elements in msg\_iov \*/

void \*msg\_control; /\* ancillary data, see below \*/ 额外的数据。

size\_t msg\_controllen; /\* ancillary data buffer len \*/

int msg\_flags; /\* flags (unused) \*/

};

struct iovec {

void \*iov\_base; /\* Starting address \*/ ： buf

size\_t iov\_len; /\* Number of bytes to transfer \*/

};

struct cmsghdr {

socklen\_t cmsg\_len; /\* data byte count, including header \*/

int cmsg\_level; /\* originating protocol \*/

int cmsg\_type; /\* protocol-specific type \*/

/\* followed by unsigned char cmsg\_data[]; \*/

};

cmsghdr;

char cm[Len];

struct msghdr msg = {0};

struct cmsghdr \*cmsg;

int myfds[NUM\_FD]; /\* Contains the file descriptors to pass. \*/

union {

/\* ancillary data buffer, wrapped in a union in order to ensure

it is suitably aligned \*/

char buf[CMSG\_SPACE(sizeof myfds)];

struct cmsghdr align;

} u;

int \*fdptr;

msg.msg\_control = u.buf;

msg.msg\_controllen = sizeof u.buf;

cmsg = CMSG\_FIRSTHDR(&msg);

cmsg->cmsg\_level = SOL\_SOCKET;

cmsg->cmsg\_type = **SCM\_RIGHTS**;

cmsg->cmsg\_len = CMSG\_LEN(sizeof(int) \* NUM\_FD);

/\* Initialize the payload: \*/

fdptr = (int \*) CMSG\_DATA(cmsg);

memcpy(fdptr, myfds, NUM\_FD \* sizeof(int));

server:

1. socket （AF\_UNIX）
2. bind （sockaddr\_un）
3. listen
4. accept
5. recvmsg (msghdr, cmsghdr + control\_data<file description is set, type SCM\_RIGHTS>).

client:

1. socket (AF\_UNIX)
2. connect (socketaddr\_un)
3. sendmsg (msghdr, cmsghdr + control\_data<file description is set, type SCM\_RIGHTS>).

启动时序图：

产品开发的时候： 框架arch startup

uml ： rose astah viso