初始化UDP网关服务

```
chain.boot()

.setNext(new CacheManagerBoot()) // 1. 初始化缓存模块
.setNext(new ServiceRegistryBoot()) // 2. 启动服务注册与发现模块
.setNext(new ServiceDiscoveryBoot()) // 2. 启动服务注册与发现模块
.setNext(new ServerBoot(mPushServer.getConnectionServer(), mPushServer.getConnServerNode()) // 3. 启动接入服务
.setNext(() -> new ServerBoot(mPushServer.getWebsocketServer(), mPushServer.getWebsocketServerNode()), usEnabled()
.setNext(() -> new ServerBoot(mPushServer.getUdpGatewayServer(), mPushServer.getGatewayServerNode()), udpGateway()
.setNext(() -> new ServerBoot(mPushServer.getGatewayServer(), mPushServer.getGatewayServerNode()), tcpGateway()) //
.setNext(new ServerBoot(mPushServer.getAdminServer(), null)) // 7. 启动控制台服务
.setNext(new RouterCenterBoot(mPushServer)) // 8. 启动路由中心组件
.setNext(new PushCenterBoot(mPushServer)) // 9. 启动推送中心组件
.setNext(() -> new HttpProxyBoot(mPushServer), CC.mp.http.proxy_enabled) // 10. 启动http代理服务,dns解析服务
.setNext(new MonitorBoot(mPushServer)) // 11. 启动监控服务
.setNext(new MonitorBoot(mPushServer)) // 11. 启动监控服务
.setNext(new MonitorBoot(mPushServer)) // 11. 启动监控服务
.end();
```

服务启动

- 1、调用GatewayUDPConnector#init()
- 2、调用GatewayUDPConnector的父类NettyTCPServer#start()
- 3、将GS节点信息注册到Zookeeper

```
public final class GatewayUDPConnector extends NettyUDPConnector {
    private UDPChannelHandler channelHandler;
    private MessageDispatcher messageDispatcher;
    private MPushServer mPushServer;

public GatewayUDPConnector(MPushServer mPushServer) {
    super(CC.mp.net.gateway_server_port);
    this.mPushServer = mPushServer;
    this.messageDispatcher = new MessageDispatcher(POLICY_LOG);
    this.channelHandler = new UDPChannelHandler(messageDispatcher);
}

@Override
public void init() {
    super.init(); 1.1
    messageDispatcher.register(Command.GATEWAY_FUSH, () -> new GatewayFushHandler(mPushServer.getPushCenter()));
    messageDispatcher.register(Command.GATEWAY_KICK, () -> new GatewayKickUserHandler(mPushServer.getRouterCenter()));
    channelHandler.setMulticastAddress(Utils.getInetAddress(CC.mp.net.gateway_server_multicast)); 1.3
    channelHandler.setNetworkInterface(Utils.getLocalNetworkInterface());
}
```

1.1 调用NettyUDPConnector#BaseService#init()

空方法,没作用;

- 1.2 注册各种消息的处理类
- 1.3 设置组播地址
- 1.4 设置本地网络接口
- 2 调用NettyUDPConnector#start()方法,创建Bootstrap启动Netty长连接服务;NettyUDPConnector创建netty Bootstrap服务时,会调用其子类

GatewayUDPConnector中方法:

initOptions(): 设置发送、接收BUF缓冲区大小

getChannelHandler(): 设置netty 事件处理类UDPChannelHandler,处理建连、消息、断连、异常事件;