Simian Army

Chaos Monkey

Introduction

- What is Chaos Monkey
 - identifies groups of systems
 - randomly terminates one of the systems in a group
- Why run Chaos Monkey
 - Failures happen
 - Even if your architecture can tolerate a system failure,
 are you sure it will still be able to next week, how about next month?
 - Do your traffic load balancers correctly detect and route requests around system failures?

Functionality

BurnCpuChaosType	在node上跑高CPU的程式,盡可能用到所有 CPU
BurnloChaosType	在node上跑高I/O的程式
FailDnsChaosType	擋住TCP UDP的port 53, 讓DNS壞掉
FailDynamoDbChaosType	在 /etc/hosts路徑加東西, 讓 Dynamo DB的API壞掉
FailEc2ChaosType	在 /etc/hosts路徑加東西, 讓 EC2的API壞掉
FailS3ChaosType	在 /etc/hosts路徑加東西, 讓 S3的API壞掉
FillDiskChaosType	創造一個很大的檔案, 讓硬碟爆滿
KillProcessesChaosType	在node上強迫某process的執行
NullRouteChaosType	將某個node弄offline 目前是offline 10.x.x.x的aws網路區段

Design

- Design Pattern
 - Is Chaos Monkey using "Strategy Pattern"?
- Design Principle
 - Encapsulate what varies

Class diagram





