

DNS MIGRATIONS

GETTIN' IT DONE

ME: KIER PW

- ▶ Working with DNS since 2000 (and DHCP & IPAM!)
- ▶ Design, Install, Migrate, Train, Support
- ▶ Numerous migrations, small and large
- ▶ Commercial and Open Source products
- ▶ Wannabe content creator, sharing experience
- ▶ But ... would prefer to be riding my bike somewhere sunny !

PREPARE

- ▶ Assumption: You know WHY you're migrating:
 - ▶ Political, Financial, Operational
- ▶ Pre-requisites:
 - ▶ Audit current environment (Platforms, Functions, Consumption, Integration)
 - ▶ Target solution identified:
 - ▶ Design: Align to principles, Best Practice, Constraints
 - ▶ Impact: Platform or workflow changes ?
 - ▶ Who is going to pay ?!

EXECUTE



3 KEY STEPS

TEST, TEST, TEST

MIGRATE DATA

▶ **Export**

- ▶ How ? Zone transfer, API, CSV export, command line

▶ **Transform**

- ▶ Does the data need to change format for importing ?

▶ **Import**

- ▶ What's the process to get bulk data into the target platform

▶ **Validate**

- ▶ Compare A & B: Idns-compare-zones, diff, query all records, etc.

MIGRATE SERVICE

▶ **Cutover DNS service**

- ▶ Publish new server IPs, NS RR change, advertise Anycast IP
- ▶ Forward DNS traffic from old to new servers, re-point clients

▶ **Test**

- ▶ Authoritative, Recursive (Internet, 3rd party integrations)
- ▶ UAT, Integrations

▶ **Monitor**

- ▶ Check logs - looks for errors (e.g. recursive-clients limit)

ROLLBACK

- ▶ Lab testing should hopefully identify the unknowns, but stuff happens so ...
- ▶ **Fix forward:**
 - ▶ Can issues be resolved "*on the fly*"
- ▶ **Rollback:**
 - ▶ Or maybe the impact is severe and we need to revert
 - ▶ Know how to rollback at each step, and how long it takes to restore service



**DNS IS LIKE A UTILITY SERVICE
IT'S NOT TILL THE TAP STOPS
FLOWING...**

BENEFITS TO IMPROVING, CONSOLIDATING, EXPANDING DNS...

1. PLAN

2. TEST

3. VALIDATE

THANKS !

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