

Launching Your Site

BADCamp 2019
by Dan Ficker

About Me

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What We Will Cover

- Gather Website Team Information
- How does DNS work?
- Change DNS records
- Configure SSL Certificates
- Determine Hosting
- Let's Move It!

What We Need



- Domain Registrar
- Domain Owner
- DNS Servers
- DNS Managers
- Hosting Provider



Gathering Stakeholders

Making a List

Image: [NBC12](#)

The WHOIS Record

Domain Name: badcamp.org
Registry Domain ID: D402200000007340955-LROR
Registrar WHOIS Server: whois.godaddy.com
Registrar URL: http://www.godaddy.com
Updated Date: 2018-08-26T15:42:18Z
Creation Date: 2018-08-26T15:42:17Z
Registrar Registration Expiration Date: 2023-08-26T15:42:17Z
Registrar: GoDaddy.com, LLC
Registrar IANA ID: 146

Registrar Abuse Contact Email: abuse@godaddy.com
Registrar Abuse Contact Phone: +1.4806242505

Domain Status: clientTransferProhibited http://www.icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited http://www.icann.org/epp#clientUpdateProhibited
Domain Status: clientRenewProhibited http://www.icann.org/epp#clientRenewProhibited
Domain Status: clientDeleteProhibited http://www.icann.org/epp#clientDeleteProhibited

Registry Registrant ID: CR337178678
Registrant Name: Registration Private
Registrant Organization: Domains By Proxy, LLC
Registrant Street: DomainsByProxy.com
Registrant Street: 14455 N. Hayden Road
Registrant City: Scottsdale
Registrant State/Province: Arizona
Registrant Postal Code: 85260
Registrant Country: US
Registrant Phone: +1.4806242599
Registrant Phone Ext:
Registrant Fax: +1.4806242598
Registrant Fax Ext:

- Websites or commands to look up Whois records.
- Important Parts:
 - Registrar
 - Admin Contact
 - Expiration Date
 - DNS Nameservers

Registrant Email: badcamp.org@domainsbyproxy.com
Registry Admin ID: CR337178680
Admin Name: Registration Private
Admin Organization: Domains By Proxy, LLC
Admin Street: DomainsByProxy.com
Admin Street: 14455 N. Hayden Road
Admin City: Scottsdale
Admin State/Province: Arizona
Admin Postal Code: 85260
Admin Country: US
Admin Phone: +1.4806242599
Admin Phone Ext:
Admin Fax: +1.4806242598
Admin Fax Ext:
Admin Email: badcamp.org@domainsbyproxy.com
Registry Tech ID: CR337178679
Tech Name: Registration Private
Tech Organization: Domains By Proxy, LLC
Tech Street: DomainsByProxy.com
Tech Street: 14455 N. Hayden Road
Tech City: Scottsdale
Tech State/Province: Arizona
Tech Postal Code: 85260
Tech Country: US
Tech Phone: +1.4806242599
Tech Phone Ext:
Tech Fax: +1.4806242598
Tech Fax Ext:
Tech Email: badcamp.org@domainsbyproxy.com
Name Server: NS71.DOMAINCONTROL.COM
Name Server: NS72.DOMAINCONTROL.COM
DNSSEC: unsigned

WHOIS Record Highlights

- Registrar
 - Registrar URL: `http://www.godaddy.com`
 - Registrar: `GoDaddy.com, LLC`
- Important Dates
 - Updated Date: `2018-08-26T15:42:18Z`
 - Creation Date: `2018-08-26T15:42:17Z`
 - Registry Expiry Date: `2023-08-26T15:42:17Z`

WHOIS Record Highlights

- Registrant Contacts (abbreviated)
 - Registrant Name: Registration Private
 - Registrant Phone: +1.4806242599
 - Registrant Email: badcamp.org@domainsbyproxy.com
- Name Servers
 - Name Server: NS71.DOMAINCONTROL.COM
 - Name Server: NS72.DOMAINCONTROL.COM

WHOIS Definitions

- Registrar: Company who leases the rights to the domain name.
- Registrant & Admin: Person/Organization who manages the domain name.
- Name Servers: Servers to query for DNS Records.

Stakeholder List



- Domain Registrar: GoDaddy
- Domain Owner: ? (private)
- DNS Servers: NS71.DOMAINCONTROL.COM,
NS72.DOMAINCONTROL.COM
- DNS Managers: ?
- Hosting Provider: ?

DNS Next Steps

- Find out who manages current name servers.
- See if they will continue hosting name servers.
- If not, set up new DNS name servers.
- Get login/contact for changing DNS records.



How DNS Works

DNS = Domain Name System

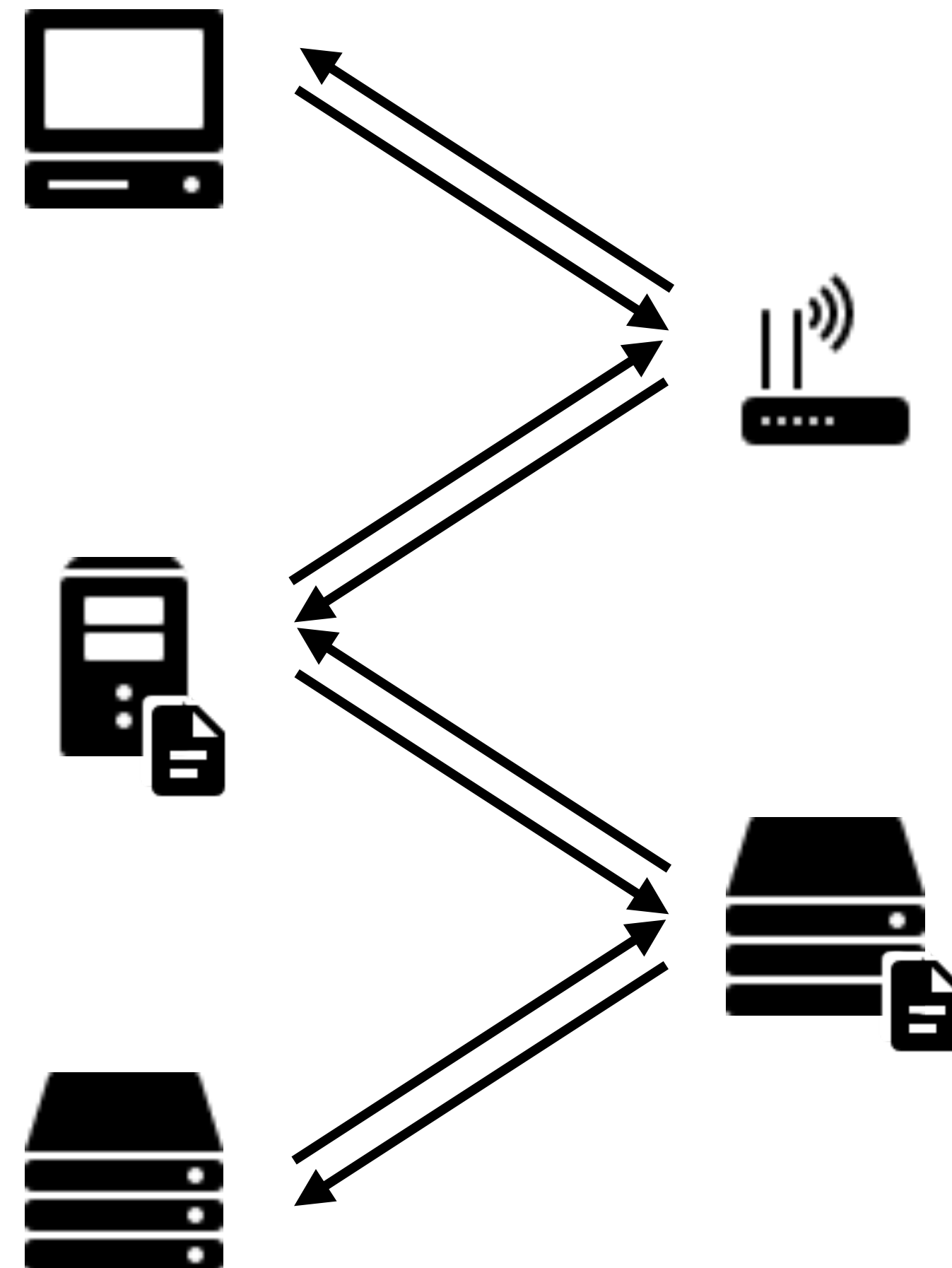
Internet Overview

- Your Computer
- Local Network Router
- Internet Provider Router(s)
- Internet Backbone(s)
- Name Server(s)



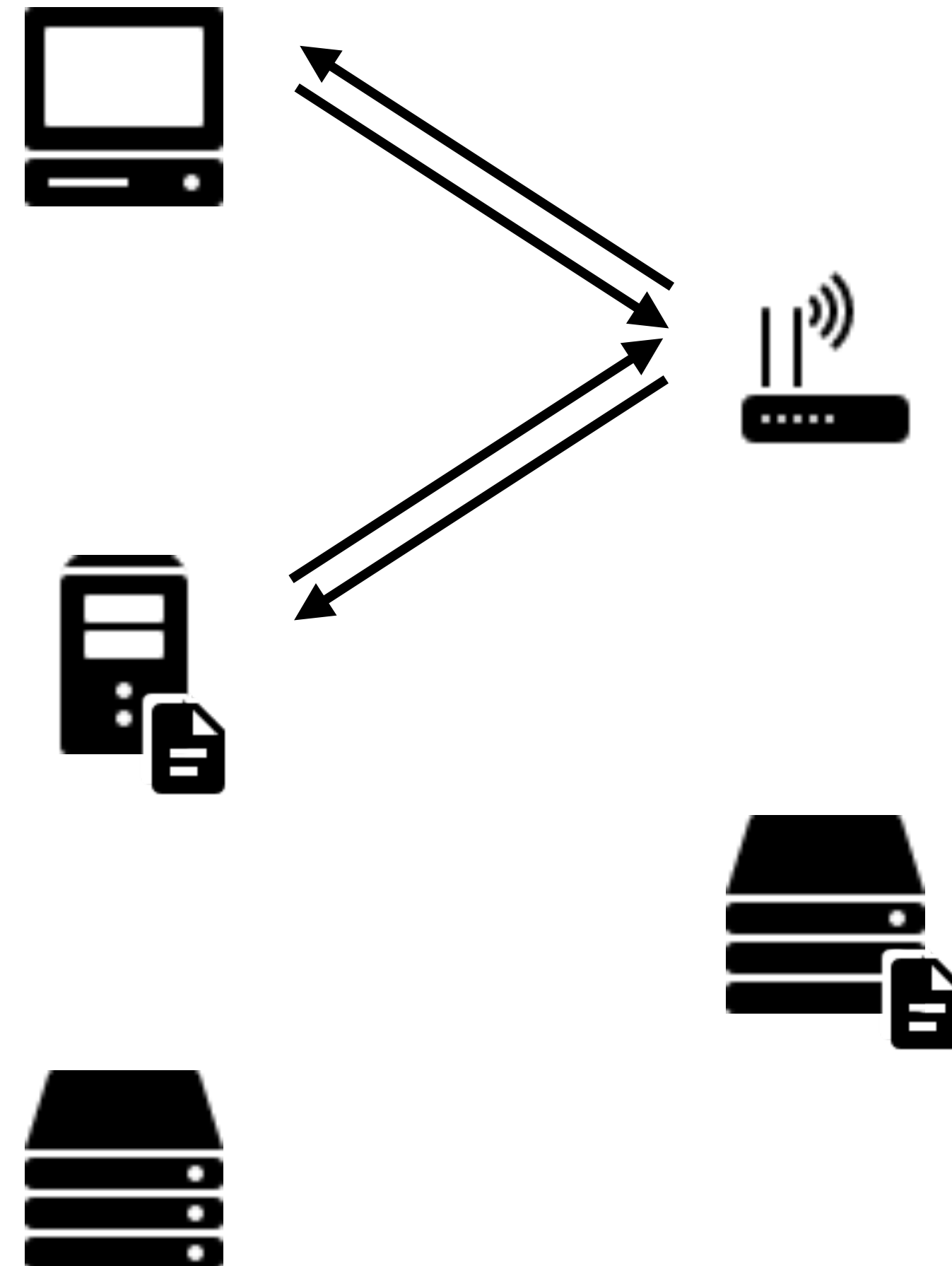
The Request Path

- Your computer asks the router, “Where is 2019.badcamp.org?”
- The router doesn’t know, so it passes the request on.
- If no one knows, the name server knows
- DNS servers can save a copy to use for later requests of the same data.



Time To Live (Caching)

- Response: "23.185.0.3"
- It includes a TTL of 3,600 seconds.
- Routers assume this data is good for the next 3,600 seconds.
- Routers can keep it and give it to others until expiration.
- Result: Faster to get commonly-used DNS records.





Hosting

The Launch Pad?

Maybe this analogy doesn't work.

Drupal Hosting Requirements

- PHP 7.0.8 or higher (Drupal 8)
- PHP 5.3.x or higher (Drupal 7)
- New website should run on PHP 7.1 or higher for long-term security and stability.
- Supported database
 - MySQL/MariaDB/Percona 5.5.x or higher (and others)
- Supported web server
 - Apache 2 (and others)



Hosting Trade-Offs

- Hosting can be from \$2 to thousands per month.
- More money can get more performance.
- More money will usually get better support.
- More money can also get more simultaneous traffic.

Stakeholder List



- Domain Registrar: GoDaddy
- Domain Owner: BADCamp Organizers
- DNS Servers: NS71.DOMAINCONTROL.COM,
NS72.DOMAINCONTROL.COM
- DNS Managers: BADCamp GoDaddy Account
- Hosting Provider: Pantheon

Getting DNS Records

- With VPS or Private Server, you may just point to IP:
 - A record: 23.185.0.3
- Shared/cloud hosts require to know what domains you point.
- Shared/cloud hosts may give you an A or CNAME record to the server:
 - CNAME: live-sitename.pantheonsite.io

2019.badcamp.org

Type	Detected Values	Required Values
A		<input type="text" value="23.185.0.3"/>
AAAA		<input type="text" value="2620:12a:8000::3"/>
AAAA		<input type="text" value="2620:12a:8001::3"/>
CNAME	live-badcamp-2019.pantheonsite.io	

SSL Config & Setup

- Most hosts and DNS providers offers SSLs, plus some specific companies like DigiCert, Comodo, etc.
- Will include install instructions for various platforms.
- Optimal config at cipherli.st.
- Config tester at SSLLabs.com.
- Free basic certs at LetsEncrypt.com.

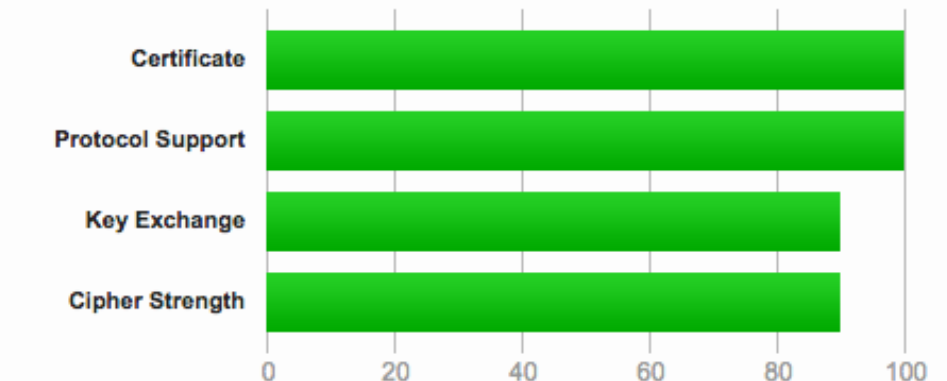
SSL Report: 2018.drupalcorn.org (23.185.0.2)

Assessed on: Thu, 27 Sep 2018 16:15:20 UTC | **HIDDEN** | [Clear cache](#)

[Scan Another »](#)

Summary

Overall Rating



Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This site works only in browsers with SNI support.

Certificate #1: RSA 2048 bits (SHA256withRSA)



Server Key and Certificate #1

Subject	5718922095493120-fe2.pantheonsite.io Fingerprint SHA256: 1ec8809b9fb0cd9a86a053f0b6709834834475c54f71588ab9d4f089c3dfdf8b Pin SHA256: D5h30MXvEKzLa0h7lJjEjPcseCIPn7AC/ludq0HQabU=
Common names	5718922095493120-fe2.pantheonsite.io 2018.drupalcorn.org 5718922095493120-fe2.pantheonsite.io accessinitiative.net aincolorado.org azboec.gov a zboxingandmma.gov azdirect.azdoa.gov azdirect.state.az.us azdoa.gov betterjobspac.com brightonhomes.net. au casje.org chiro-medicalgroup.com chiromedicalgroup.com christmas.newhopechildren.com cincinnati-and-d ayton.ffunnel.com clonedomain.ffunnel.com dallas.ffunnel.com demo.dev.ffunnel.com dev.ffunnel.com digitalart eacher.com directory.lls.edu diymatt.tv fernandosupholsteryanddesign.com fff.bt48.com funnel.com flandrau.or g fort-worth.ffunnel.com global.ffunnel.com infospourjeunes.com jailbreakbrewing.com kentucky.ffunnel.com las -vegas.ffunnel.com lexington.dev.ffunnel.com los-angeles.dev.ffunnel.com los-angeles.ffunnel.com louisville.de v.ffunnel.com mn-minneapolis-and-st-paul.ffunnel.com mn-northern-minnesota.ffunnel.com montessorischoolf w.com nativeintelligence.com new-city.dev.ffunnel.com new-mexico.ffunnel.com newsroom.lls.edu novadcmd.ff unnel.com oh-cleveland-and-akron.ffunnel.com oh-columbus.ffunnel.com oh-toledo.ffunnel.com oklahoma-city.f funnel.com phoenix.dev.ffunnel.com phoenix.ffunnel.com projectskinmd.com raleigh.dev.ffunnel.com raleigh.f funnel.com richmond.dev.ffunnel.com richmond.ffunnel.com san-diego.dev.ffunnel.com san-diego.ffunnel.com sa n-francisco.ffunnel.com southwestern-virginia.ffunnel.com srhmarketing.com st-charles.il.us staffersnet.lls.edu stcharlesil.gov stcharlesil.info teesd.org test.azdoa.gov test.stcharlesil.gov trianglebabnc.org walkeztalkez.co m west-virginia.ffunnel.com westplaza.co.nz www.aincolorado.org www.azboec.gov www.aboxingandmma.go v www.azdirect.state.az.us www.azdoa.gov www.brightonhomes.net.au www.casje.org www.chiro-medicalgrou p.com www.chiromedicalaroup.com www.ci-st-charles.il.us www.dev.ffunnel.com www.digitalartteacher.com ww
Alternative names	



SEO Considerations

Making a Robot-Friendly Transition

HTTP 301 Response

- Redirects browsers and tells the Internet, “This content has permanently moved.”
- Search engines move link reputation and other ranking from the old URL to the new one.

Redirect Content

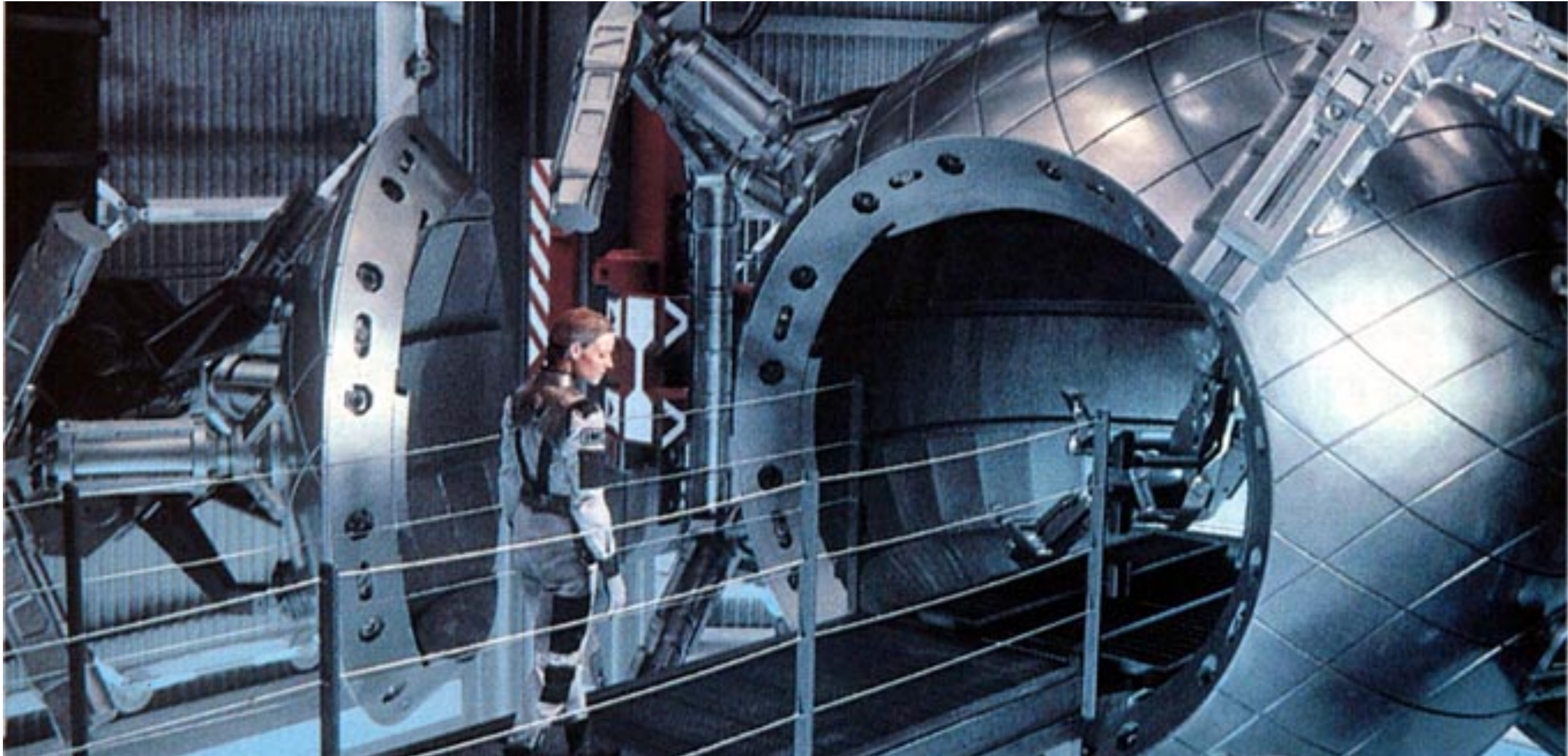
- The old “About Us” page was at `/about.asp` or `/info/about`.
- They should be redirected to the new page, `/about-us`.
- Can be done via Drupal Redirect module.
- If the old page does not exist on the new site, don't just redirect to a random page. 404 page is fine.

Redirect Domains

- A site can often be accessed by badcamp.org or www.badcamp.org.
- Maybe even bayareadrupalcamp.org, badcamp.com too (not real sites).
- Redirect all to 2019.badcamp.org.
- Helps make sure search engines are less confused about duplicate content.
- Keeps links consistent for all visitors.

Redirect to HTTPS

- If the old site was not HTTPS, redirect all traffic from HTTP to HTTPS.
- Don't redirect just to the home page, redirect to the new page's site on the HTTPS URL.
- More generally, any request to HTTP could be redirected to HTTPS.
- Optional: Implement HSTS so browsers don't ever redirect again.
- Resource: [LunarMetrics on migrating site to HTTPS](#) (thanks Andy Olson!)



The Big Launch

Final Preparations

- Edit your hosts file to point to the IP or view it on a working test domain. Verify site is looking good.
 - You can still see the old/new site side-by-side.
- Put the TTL on all DNS records as low as 600 seconds.
 - Less time of both old and new being accessed/cached at same time.
 - If previous TTL was 3,600 or 86,400 seconds, wait that long so that DNS caches are updated.

Making The Switch

- Update the DNS records to point to the new host.
- For the length of the TTL time after change, some visitors will see the old site and some the new.
- The site is now live.



Post-Launch Testing

- Check on various networks that the website looks like it moved.
- Verify DNS Propagation: [whatsmydns.net](https://www.whatsmydns.net)
- Verify SSL Configuration: [ssllabs.com](https://www.ssllabs.com)
- Verify redirects in place and working.
- After verifying, increase TTL to a higher amount.
- ***Congratulations!***

Thank You

Any Questions?