

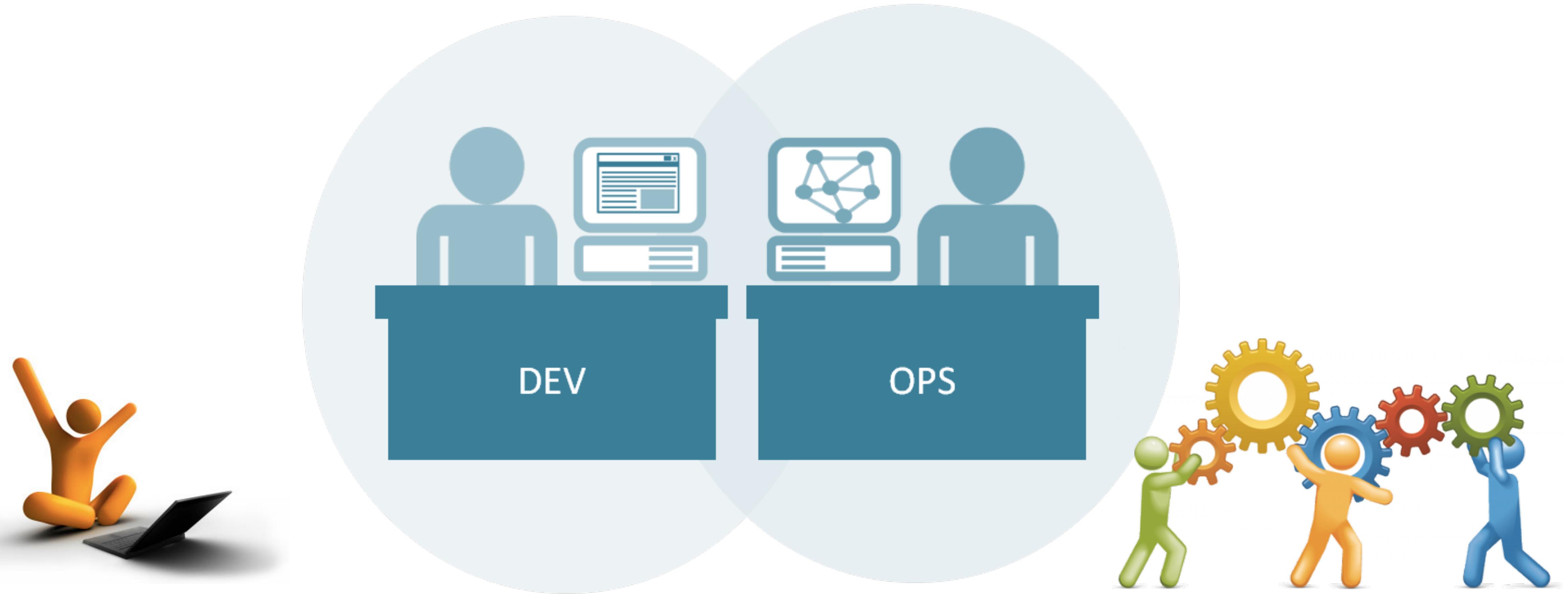
Software Operations

**CS480 Software Engineering
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CAL POLY POMONA



Developers VS Operators

Linux Basics





From: wschlich <wschlich@prometheus.bla.fasel.org>
To: wschlich@prometheus.bla.fasel.org
Subject: Messages from example.sh running on prometheus.bla.fasel.org
Date: Wed, 27 May 2009 21:37:34 +0200 (CEST)

```
[2009-05-27 21:37:33 +02:00] [____DEBUG] {example.lib.sh:49}, __init(): command line argument: -a
[2009-05-27 21:37:33 +02:00] [____DEBUG] {bashinator.lib.0.sh:151}, __prepare(): successfully created temporary script subcommand logfile '/tmp/example.log.8hGzmB'
[2009-05-27 21:37:33 +02:00] [____DEBUG] {bashinator.lib.0.sh:159}, __prepare(): script subcommand logfile: '/tmp/example.log.8hGzmB'
[2009-05-27 21:37:33 +02:00] [____DEBUG] {example.lib.sh:76}, __main(): this is a debug test
[2009-05-27 21:37:33 +02:00] [____INFO] {example.lib.sh:76}, __main(): this is a info test
[2009-05-27 21:37:33 +02:00] [____NOTICE] {example.lib.sh:76}, __main(): this is a notice test
[2009-05-27 21:37:33 +02:00] [__WARNING] {example.lib.sh:76}, __main(): this is a warning test
[2009-05-27 21:37:33 +02:00] [____ERROR] {example.lib.sh:76}, __main(): this is a err test
[2009-05-27 21:37:33 +02:00] [_CRITICAL] {example.lib.sh:76}, __main(): this is a crit test
[2009-05-27 21:37:33 +02:00] [____ALERT] {example.lib.sh:76}, __main(): this is a alert test
[2009-05-27 21:37:33 +02:00] [EMERGENCY] {example.lib.sh:76}, __main(): this is a emerg test
[2009-05-27 21:37:33 +02:00] [____DEBUG] {example.lib.sh:117}, exampleFunction(): fooArgument: foo
[2009-05-27 21:37:33 +02:00] [____DEBUG] {example.lib.sh:120}, exampleFunction(): barArgument: bar
[2009-05-27 21:37:33 +02:00] [____INFO] {example.lib.sh:124}, exampleFunction(): this is an example function
[2009-05-27 21:37:33 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): FATAL: dying for test purposes
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): function call stack (most recent last):
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): --> __dispatch('-a') called in 'example.sh' on line 71
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): --> __main() called in 'bashinator.lib.0.sh' on line 115
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): --> fooFunction('fooArgs') called in 'example.lib.sh' on line 85
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): --> barFunction('barArgs') called in 'example.lib.sh' on line 130
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): --> bazFunction('bazArgs') called in 'example.lib.sh' on line 134
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): please check script subcommand log '/tmp/example.log.8hGzmB' for
[2009-05-27 21:37:34 +02:00] [____ALERT] {example.lib.sh:138}, bazFunction(): terminating script
```

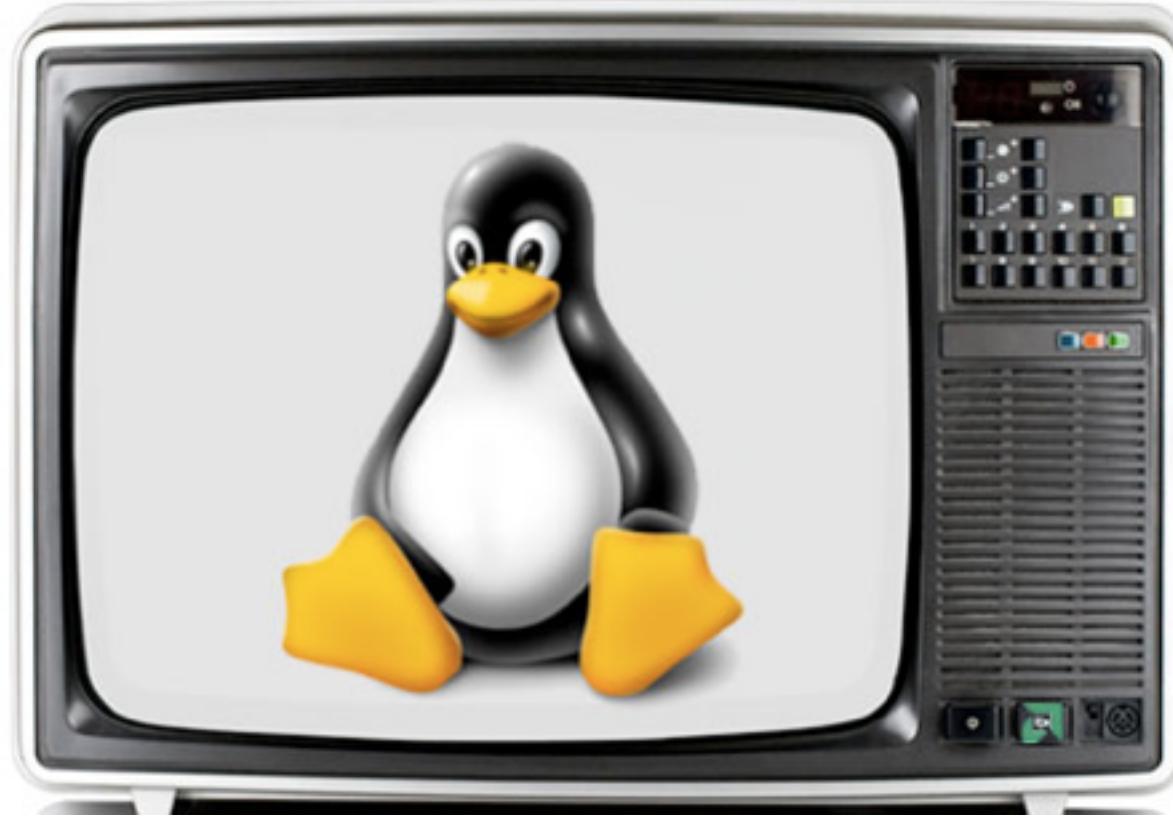
```
--8<--[ start of script subcommand log (/tmp/example.log.8hGzmB) ]--8<--
rm: cannot remove `/does/not/exist': No such file or directory
mkdir: cannot create directory `/does/not/exist': No such file or directory
ls: cannot access /does/not/exist: No such file or directory
--8<--[ end of script subcommand log ]--8<--
```

--
sent by example.sh running on prometheus.bla.fasel.org at 2009-05-27 21:37:34

Stability



Simplicity

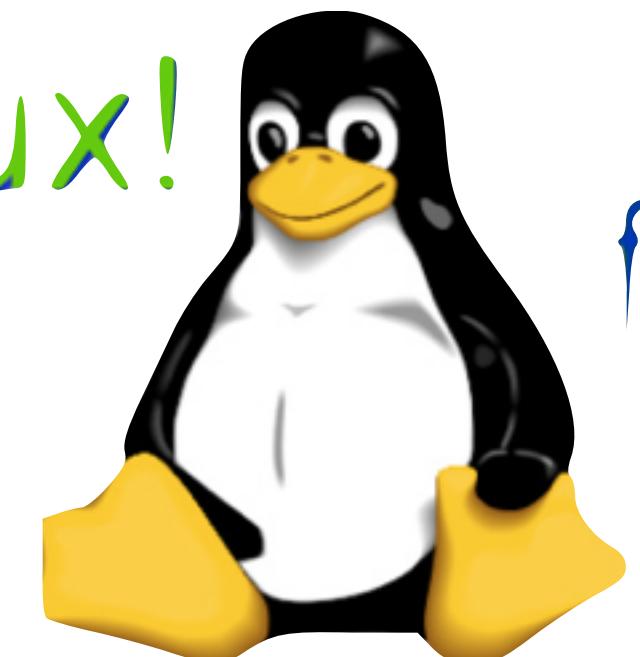


Security



Free

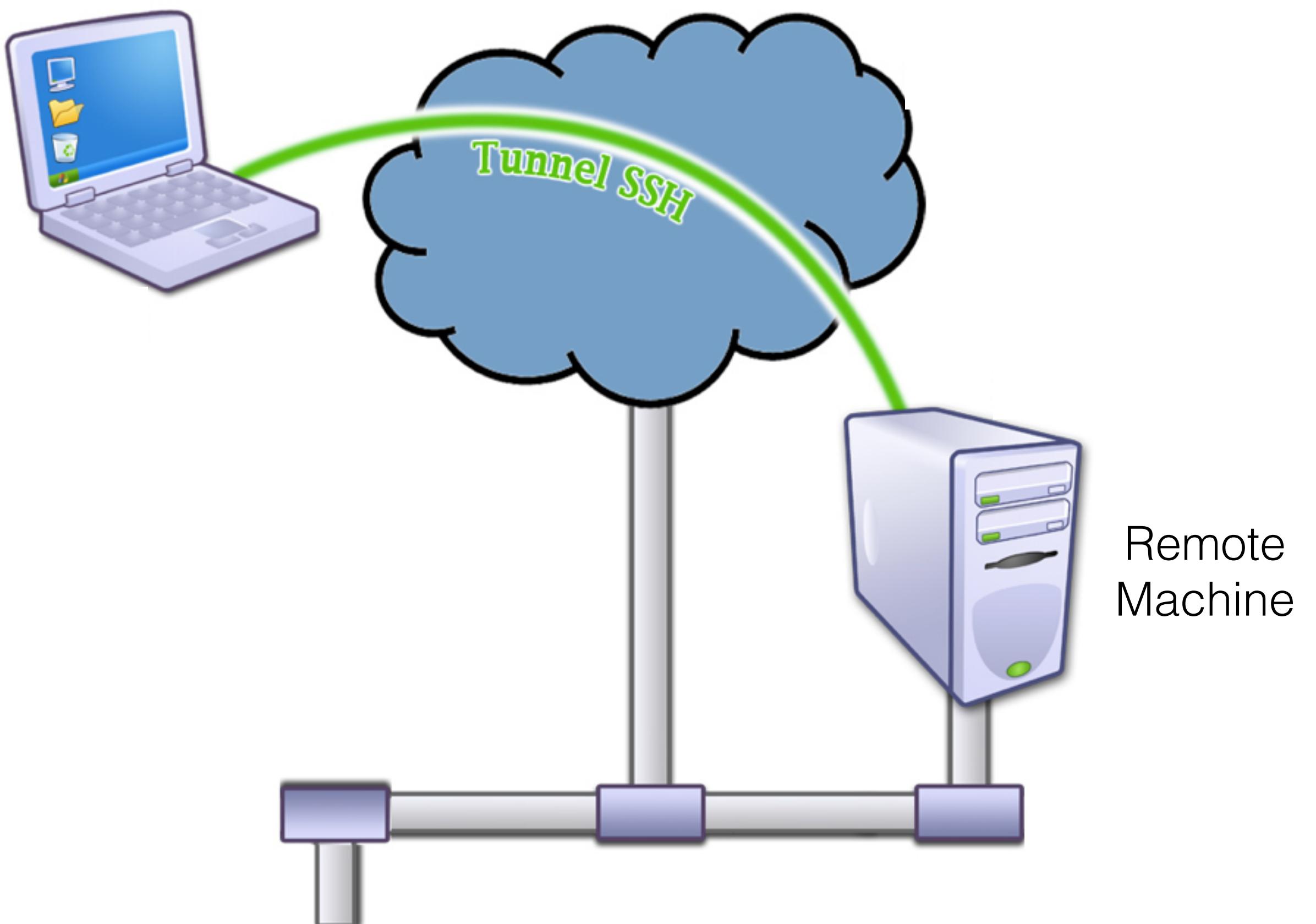
Linux!
free as...
... a bird



learn
with Google™

SSH

access remote machine
copy files to remote machine



Run Process

know how to make configurations
run in background
keep logs
nohup



Manage Process

- show running processes
- terminate running processes
- redirect port



Monitor the System

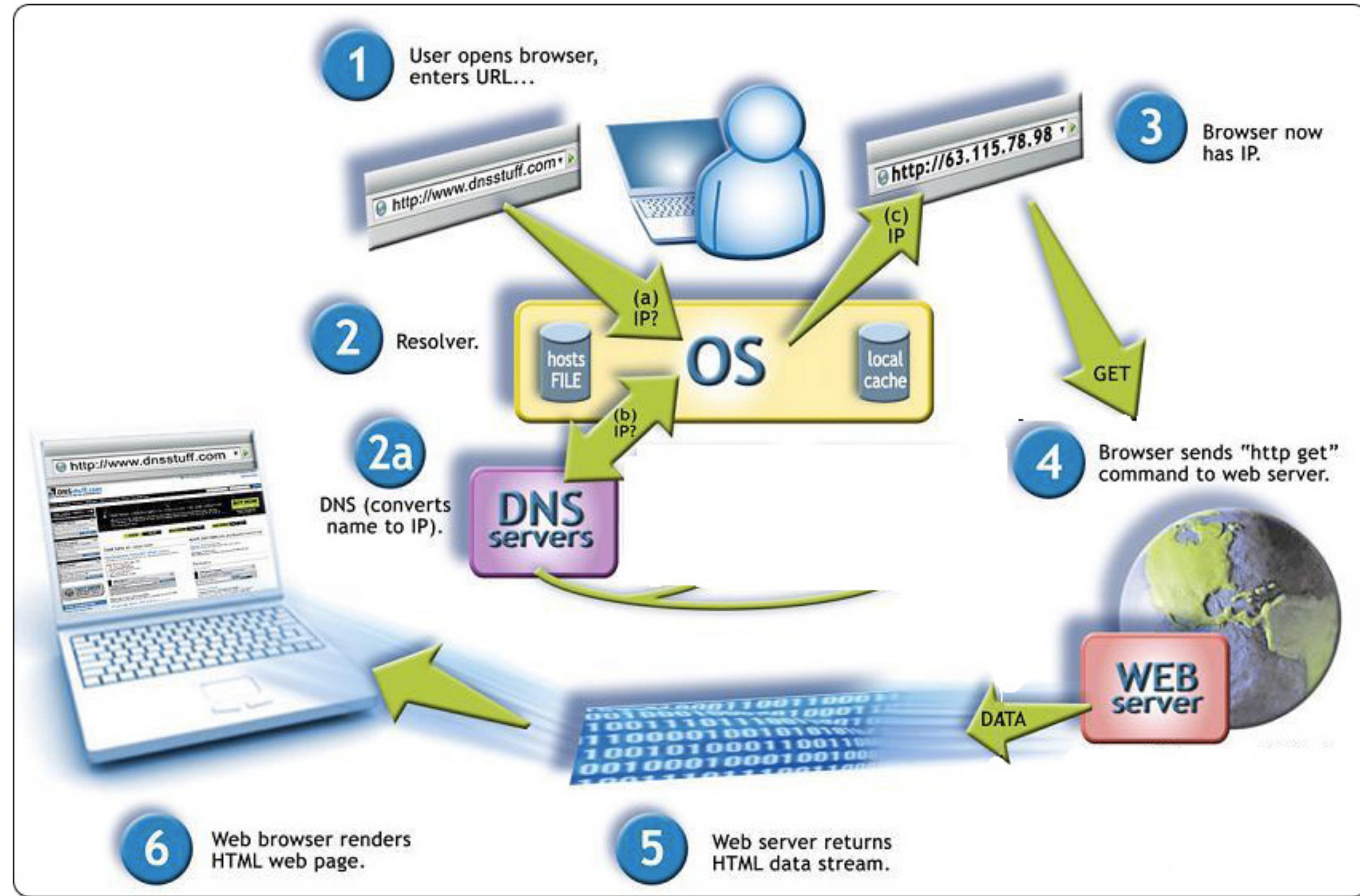
- check memory
- check disk
- check port



Domain Name

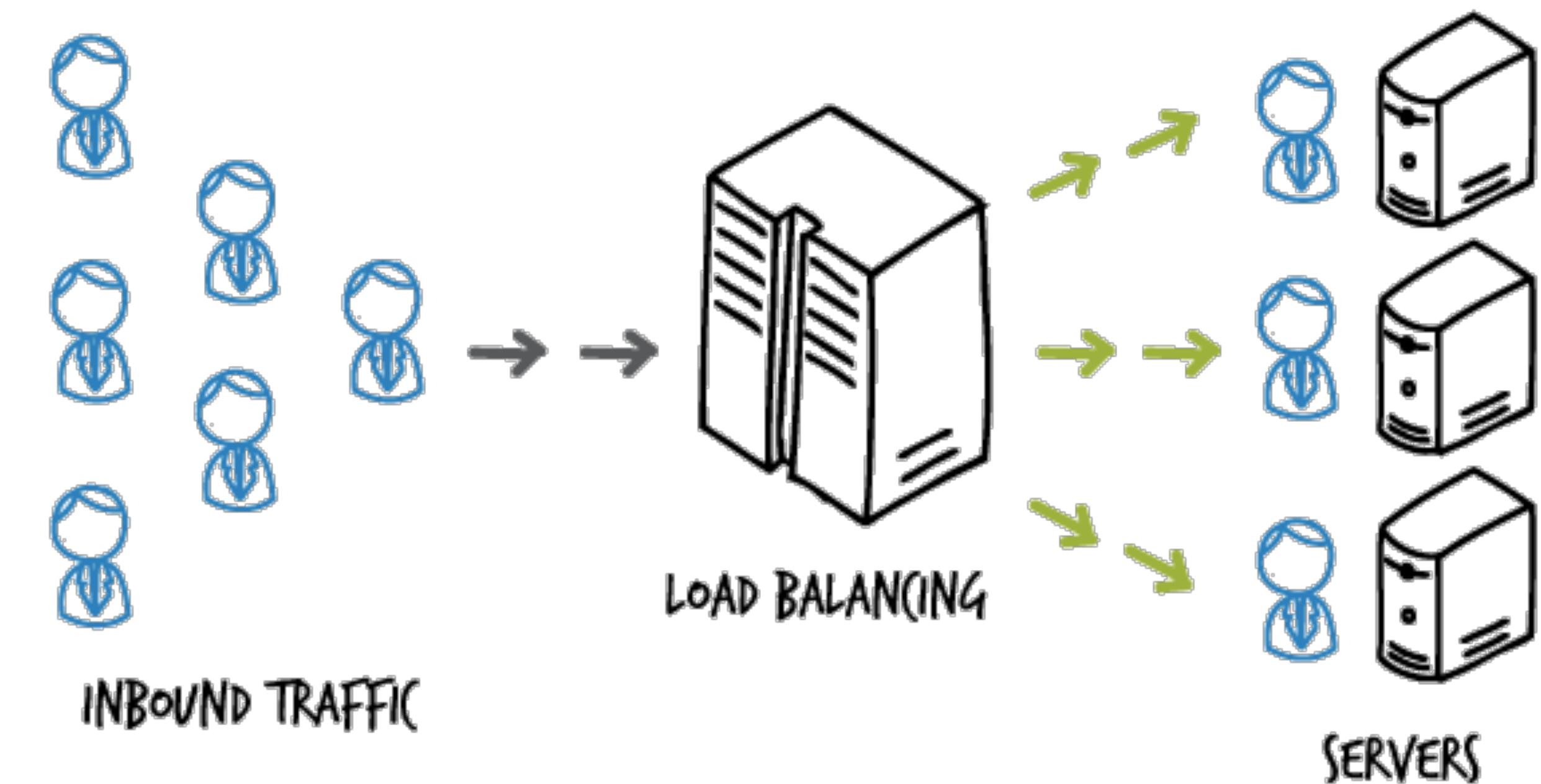
configure domain names (A, CNAME)
test domain names





Load Balancer

configure load balancer



Something Cool or Something Useful?



