

Saying Goodbye to Localhost

...

developing in the cloud using Cloud9

A Little Bit About Me



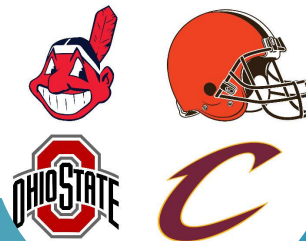
Family

The reason I do everything.



DuBose Web Team

I couldn't do what I do
without my team.



Sports

Ohio sports give you thick
skin.



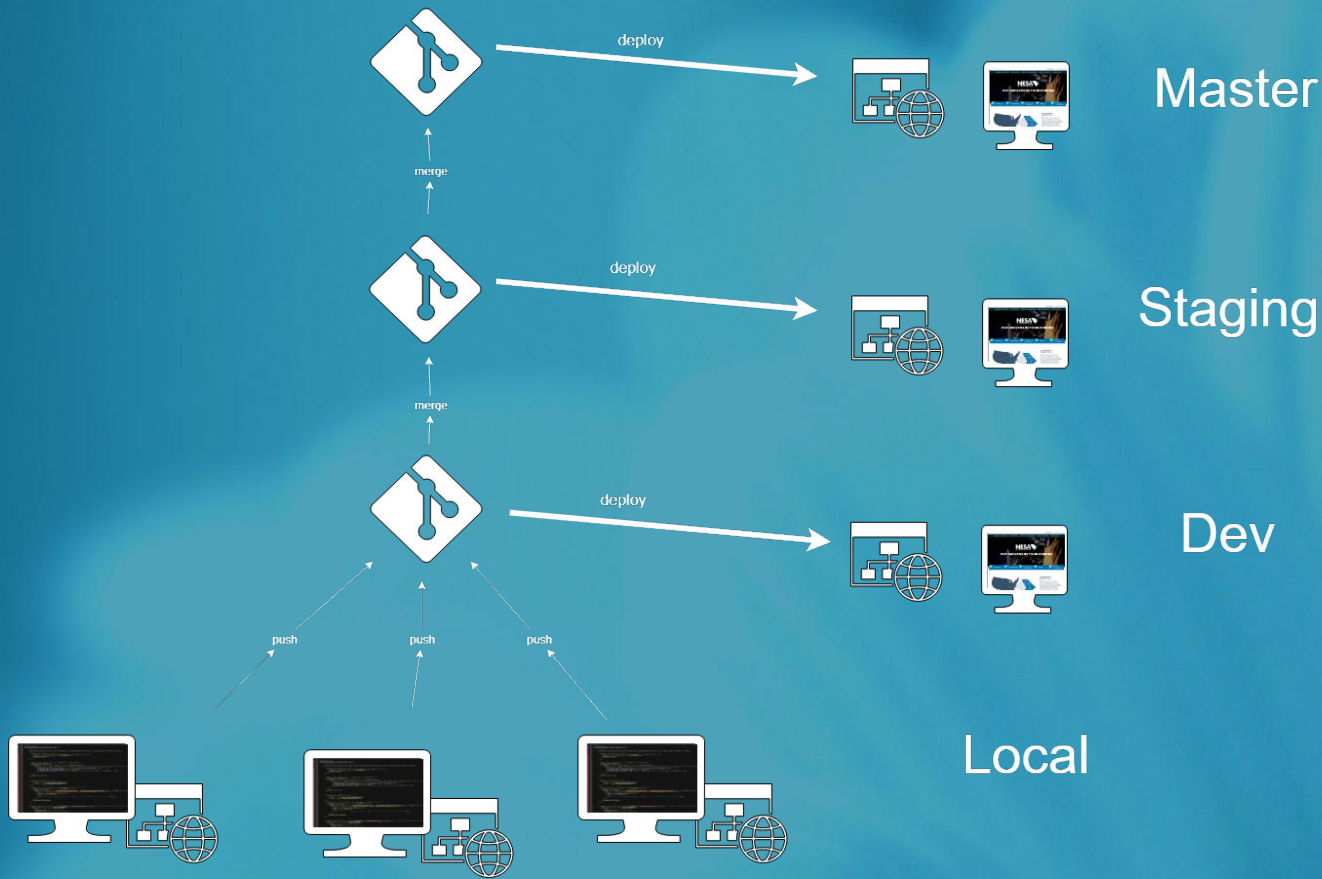
Developer

Solving problems with code
keeps my job.

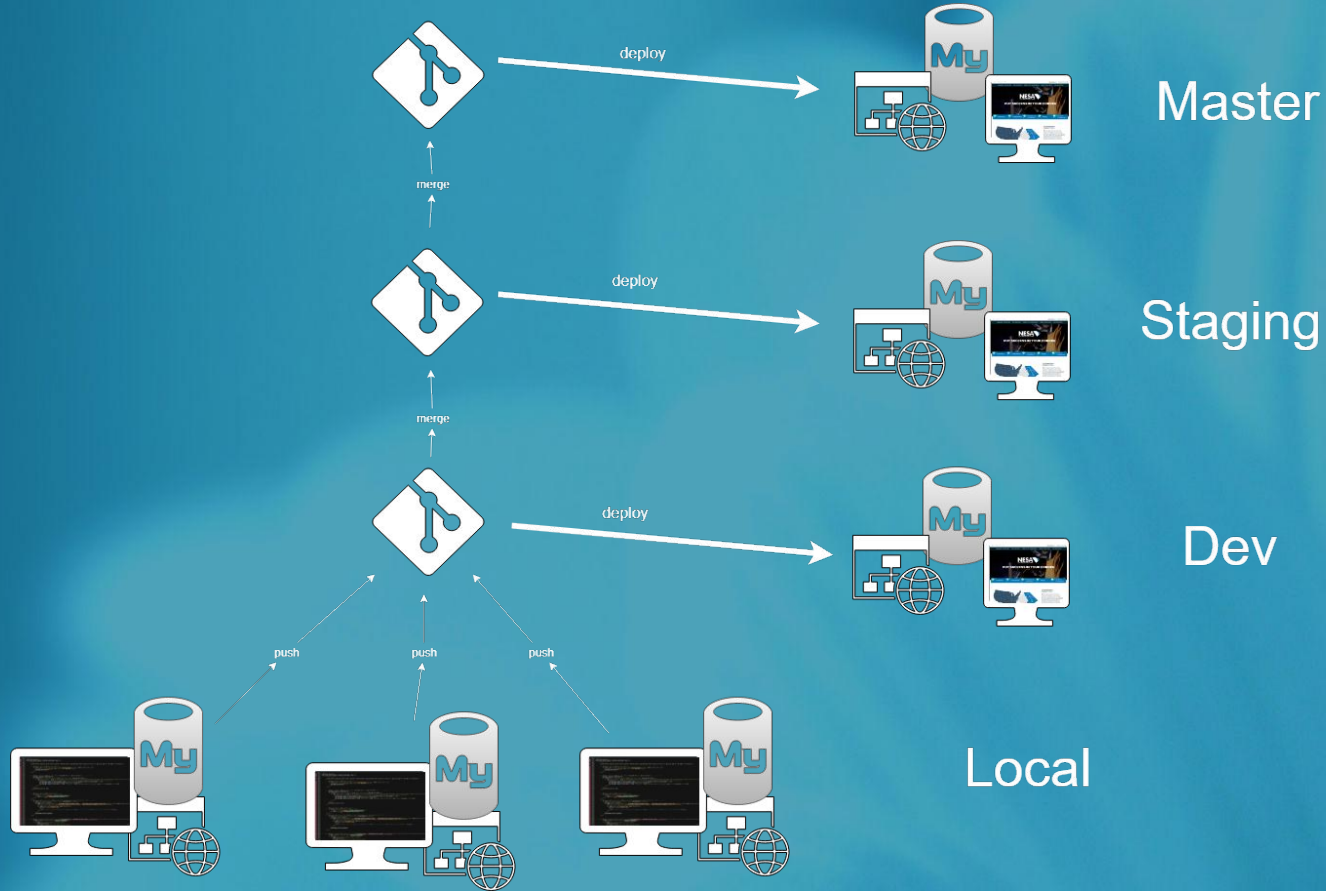
CMS Development

- Developers
- Designers
- Content
- Client

CMS Development Setup



CMS Development Problem



CMS Development Problem



Database Merge

- Scripts
- Tools
- ...

Content Cathy

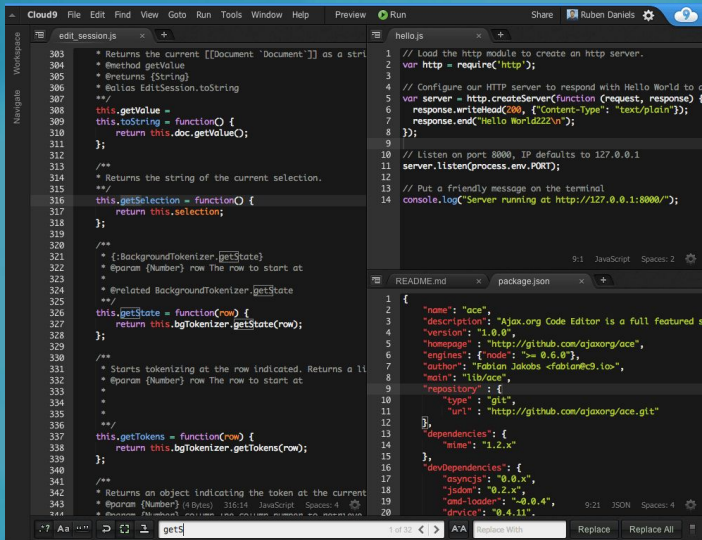
- Account Manager
- Works directly with the customer
- Helps to enter content
- Never written code, has no clue what the command line is



CMS Development - Mobility

- Setup one time and replicate on other machines
- Access from any machine
- Edit files from multiple machines without overriding

Solution

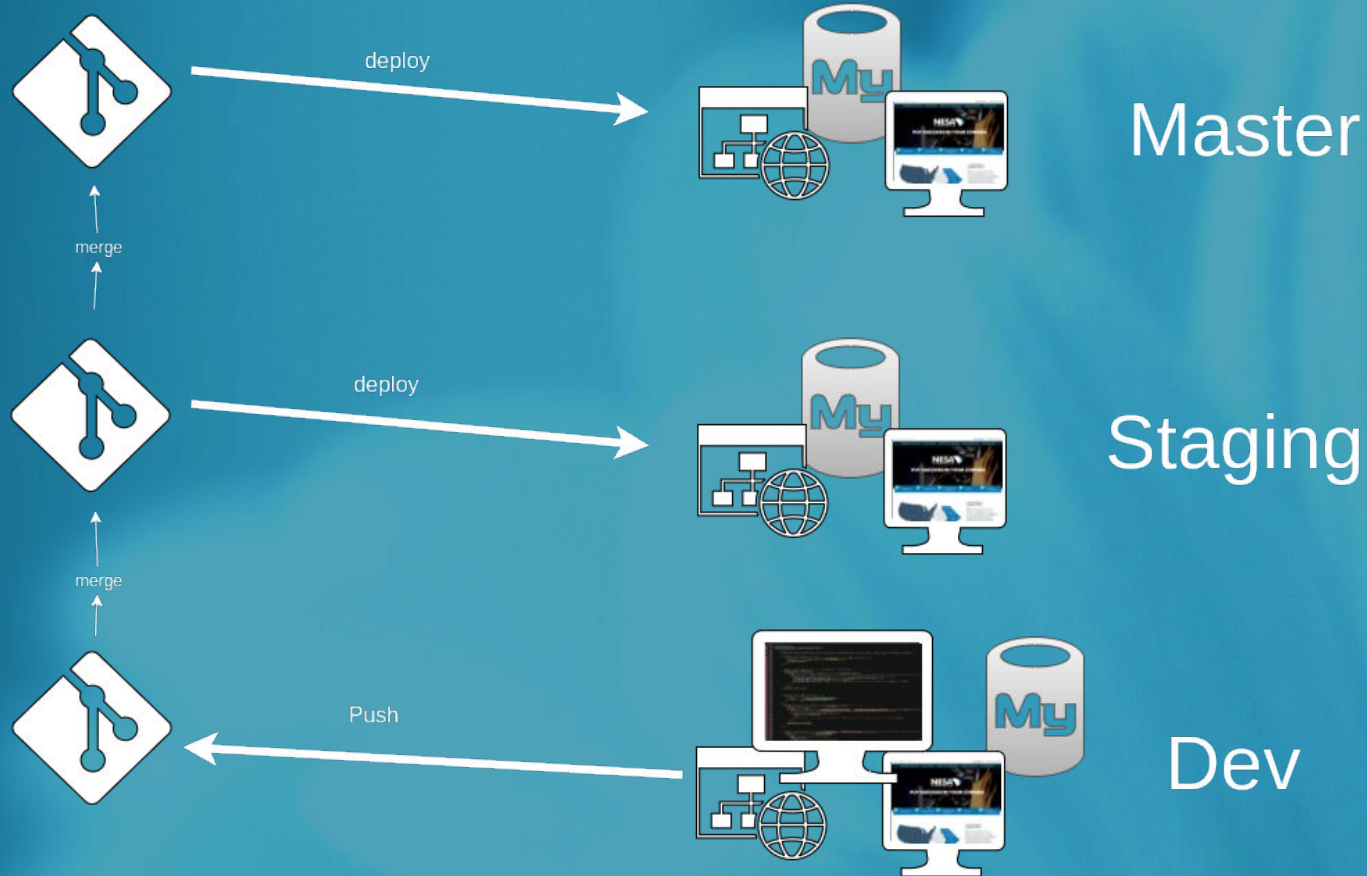


```
303 * Returns the current [[Document "Document"]] as a string
304 * @method getValue
305 * @returns {String}
306 * @alias editSession.toString
307 **/
308 this.getValue = function() {
309   this.toString = function() {
310     return this.doc.getValue();
311   };
312 }
313 /**
314 * Returns the string of the current selection.
315 **/
316 this.getSelection = function() {
317   return this.selection;
318 };
319 /**
320 * @param {BackgroundTokenizer} tokenizer
321 * @param (Number) row The row to start at
322 * @related BackgroundTokenizer.getState
323 **/
324 this.getState = function(row) {
325   return this.bgTokenizer.getState(row);
326 };
327 /**
328 * Starts tokenizing at the row indicated. Returns a list
329 * @param (Number) row The row to start at
330 * @returns {Array}
331 **/
332 this.getTokens = function(row) {
333   return this.bgTokenizer.getTokens(row);
334 };
335 /**
336 * Returns an object indicating the token at the current
337 * @param (Number) (4 Bytes) JavaScript Spaces: 4
338 * @returns {Object}
339 **/
```

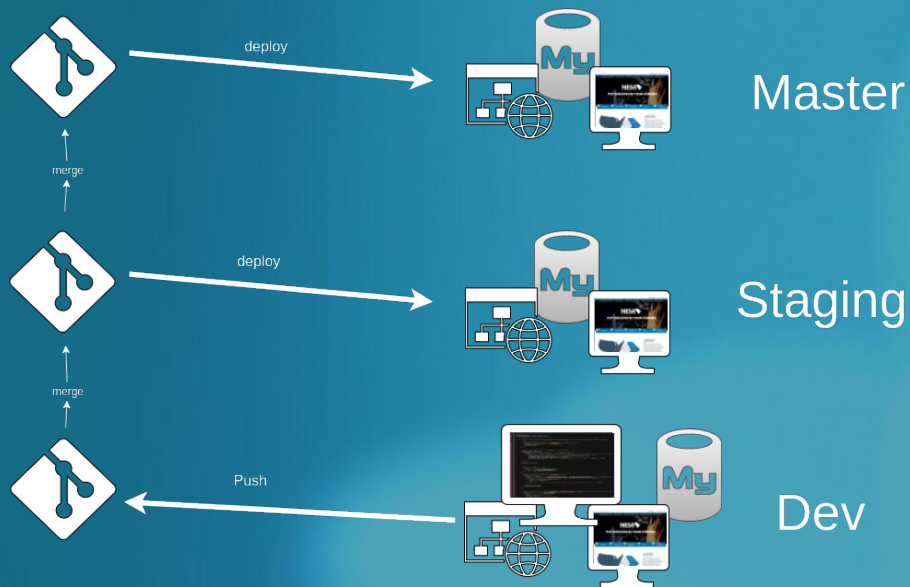
```
1 // Load the http module to create an http server.
2 var http = require("http");
3
4 // Configure our HTTP server to respond with Hello World to all requests.
5 var server = http.createServer(function (request, response) {
6   response.writeHead(200, {"Content-Type": "text/plain"});
7   response.end("Hello World\n");
8 });
9
10 // Listen on port 8080, IP defaults to 127.0.0.1
11 server.listen(process.env.PORT);
12
13 // Put a friendly message on the terminal
14 console.log("Server running at http://127.0.0.1:8080/");
```

```
1 {
2   "name": "ace",
3   "description": "Ajax.org Code Editor is a full featured",
4   "version": "1.0.0",
5   "homepage": "http://github.com/ajaxorg/ace",
6   "engines": { "node": ">= 0.6.0" },
7   "author": "Fabian Jakobs <fabian@cs.umd.edu>",
8   "main": "lib/ace",
9   "repository": {
10     "type": "git",
11     "url": "http://github.com/ajaxorg/ace.git"
12   },
13   "dependencies": {
14     "ace": "1.2.x"
15   },
16   "devDependencies": {
17     "asyncjs": "0.0.x",
18     "jshint": "0.2.x",
19     "amd-loader": "~0.0.4",
20     "device": "0.4.11",
```

Cloud9 - ssh workspace



Cloud9 - ssh workspace



- Everyone accesses the code on the same machine
 - No individual branches
 - Everyone using the same database
 - Virtually no git conflicts
 - Access your code anywhere
 - Collaborative Editing
 - Non-devs entering content directly into dev site CMS
 - No deploying for team to see dev site changes
-

Solution

Demonstrate the ssh Workspace IDE

Cloud9 - other workspaces

Hosted workspace

Clone workspace

Remote SSH workspace

Salesforce



Private

This is a workspace for your eyes only



Public

This will create a workspace for everybody to see

Clone from Git or Mercurial URL (optional)

e.g. ajaxorg/ace or git@github.com:ajaxorg/ace.git

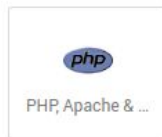
Choose a template



HTML5



Node.js



PHP, Apache & ...



Python



Django



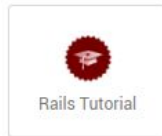
Ruby



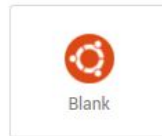
C++



Wordpress



Rails Tutorial



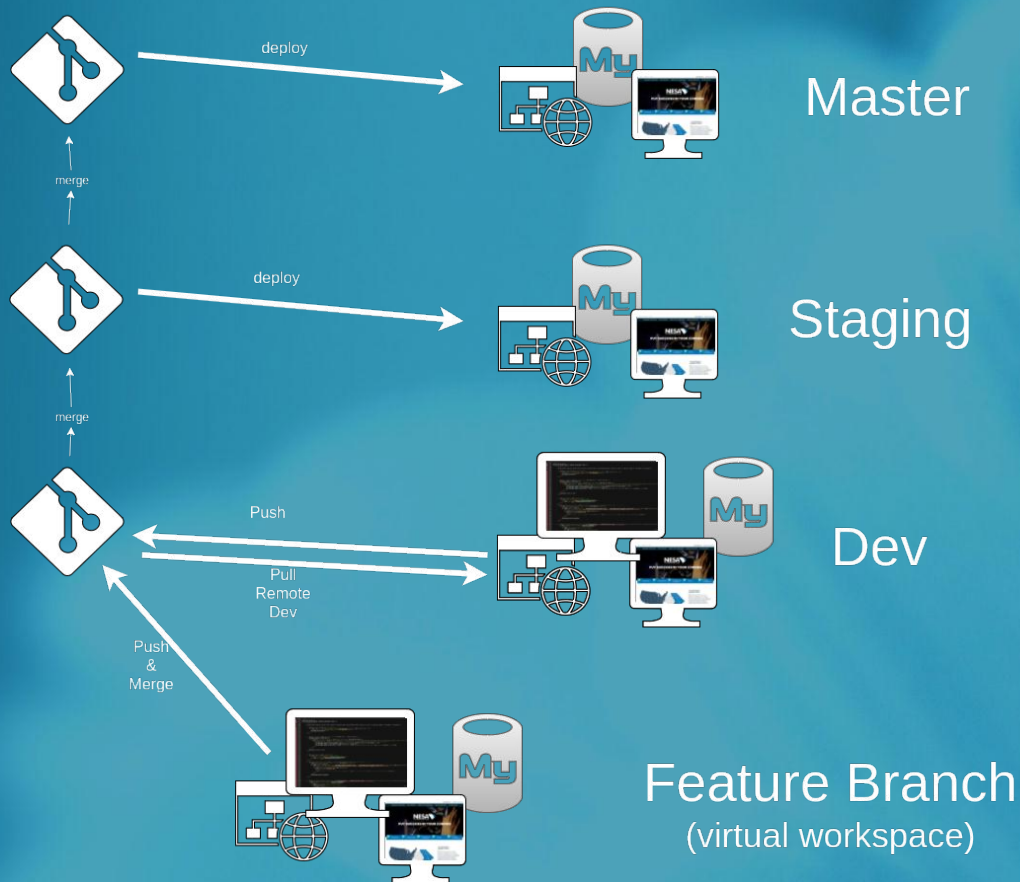
Blank



Harvard's CS50

Create workspace












Cloud9 - other workspaces



Solution

Demonstrate virtual workspaces

Cloud9 - ssh workspace file structure

```
/
|_  var
|_  www
|_  etc
    |_  home
    |_  dubose
        |_  master
            |_  eeconf
        |_  staging
            |_  staging_eeconf
        |_  dev
            |_  dev_eeconf
```

Cloud9 - ssh workspace rules/standards/concessions

- Communicate
- Communicate
- Git commit as one user
- Gulp/SASS/Terminal Errors go to HipChat
- Feature branches go to virtual workspace
- Cloud9 doesn't know much about your server
 - Great on virtual workspaces

Cloud9 - say goodbye to localhost

