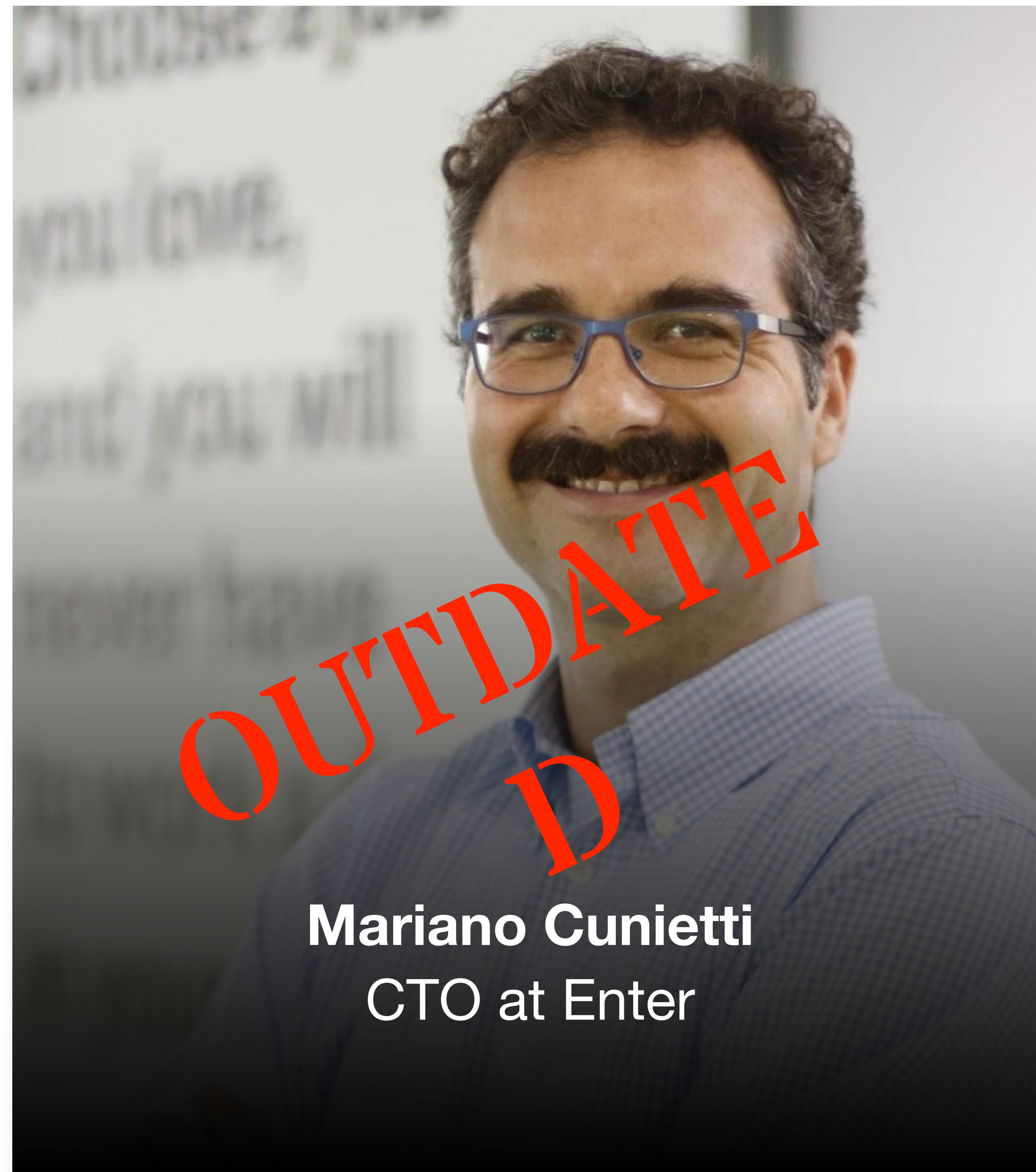


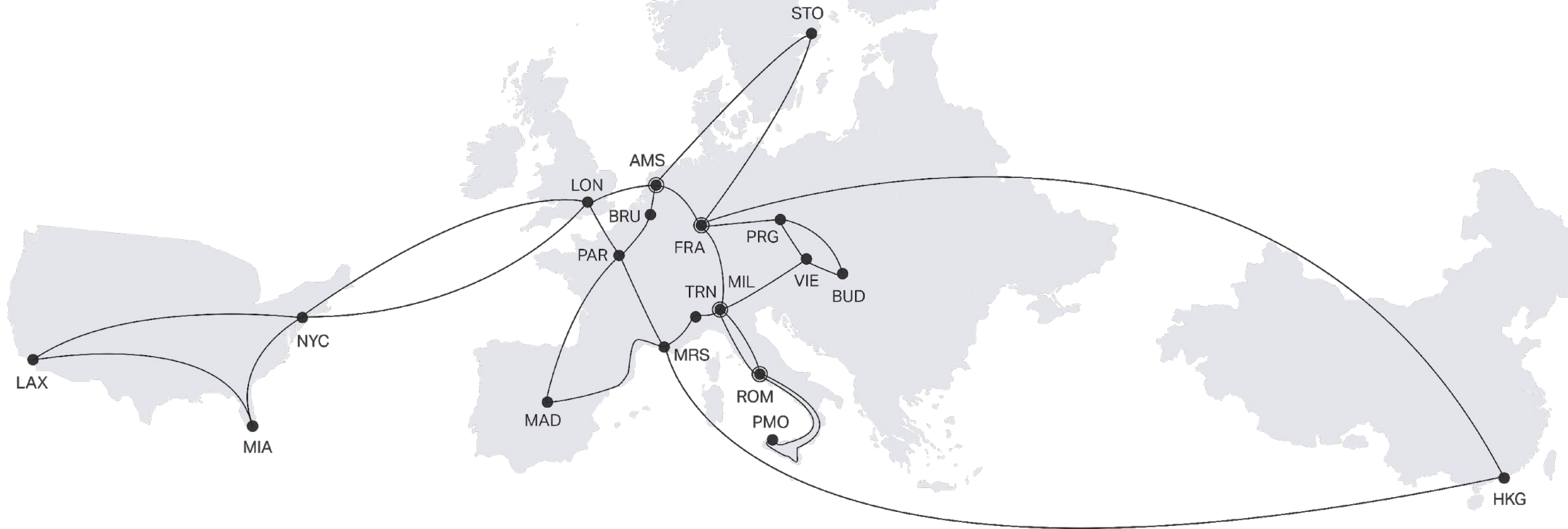
GitOps and Automium: a new paradigm for software defined operations





Mariano Cunietti
CTO at Enter

International backbone



Enter Cloud Suite

The first European,
multi-region, open source
cloud IaaS



**Twenty years' experience
in datacenter and cloud services
led us to believe that stability,
reliability and performance
are not in the product,
but in the process.**

“

Cloud Native applications are a combination of existing and new software development patterns.

The existing patterns are software **automation** (infrastructure and systems), **API** integrations, and services oriented architectures.

The new cloud native pattern consists of **microservices** architecture, containerized services, and **distributed** management and orchestration.

CNCF (Cloud Native Computing Foundation)

**There's no benefit in moving
your monolithic app to the
cloud as-it-is (lift and shift)**



You can refactor your app or...

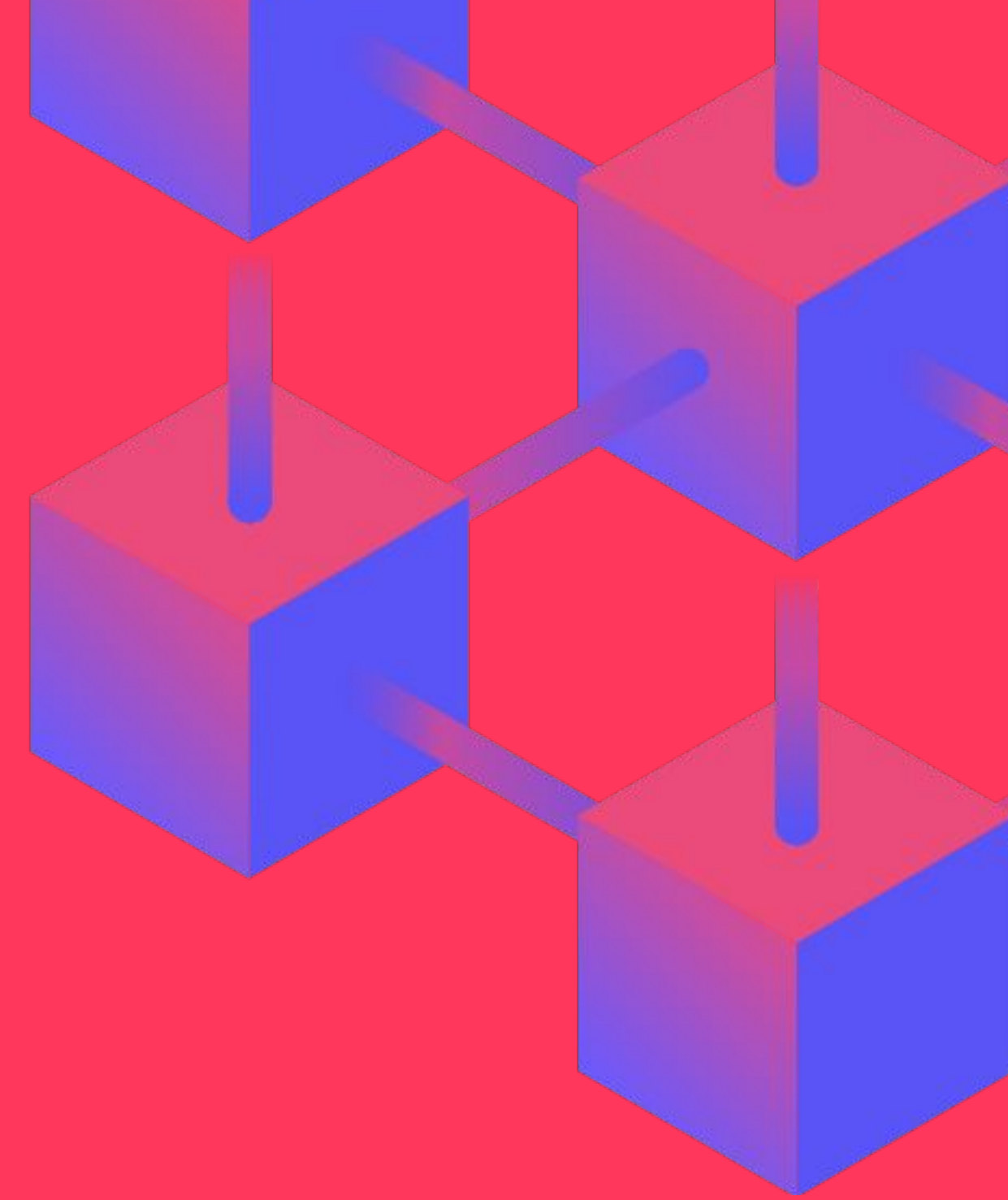
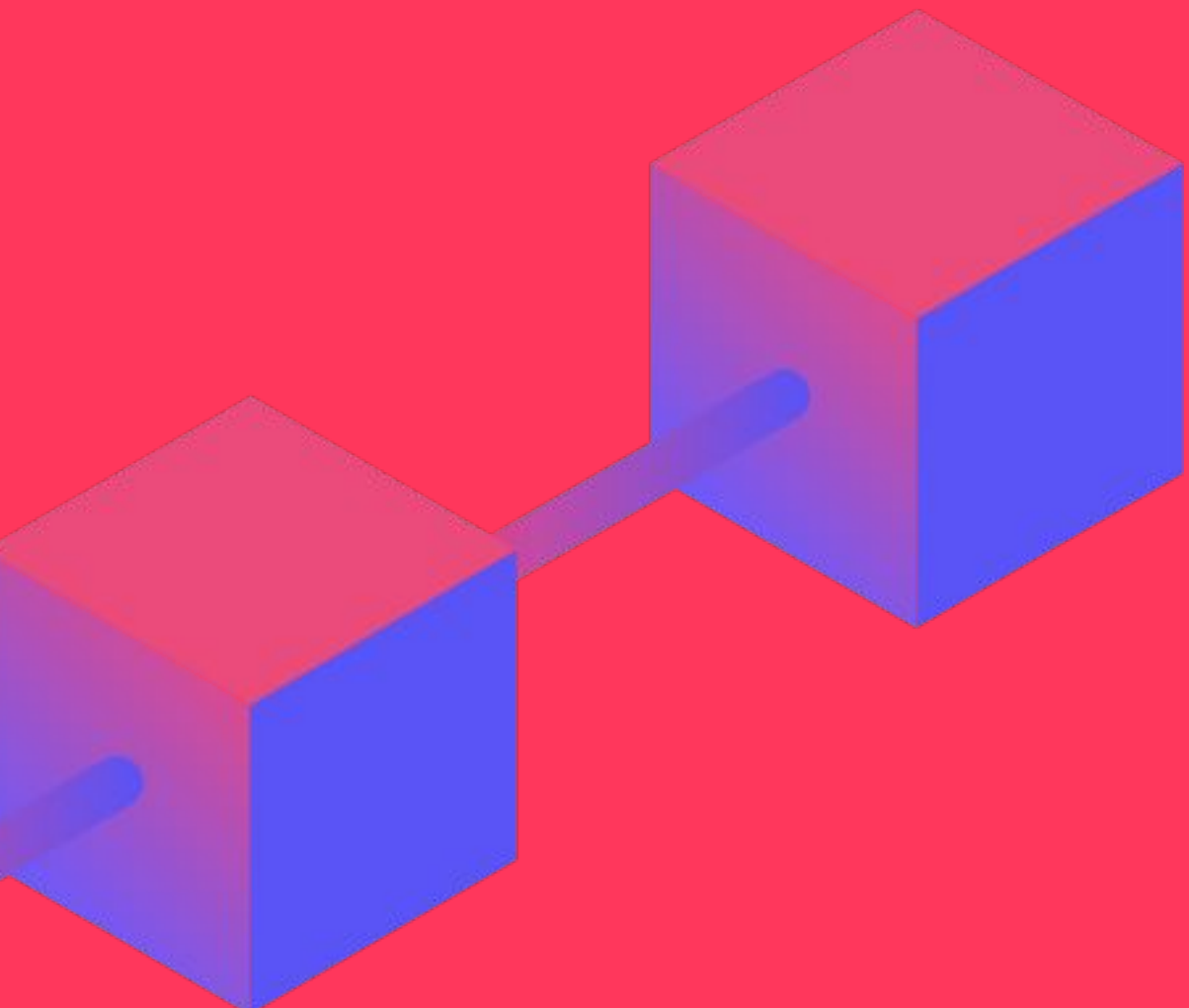
```
183 $total = $taxes + $total;
184 $taxes = $taxes;
185 $total = $total;
186 $sort_order = $this->model_extensions->getExtensions('total');
187 $results = $this->model_extensions->getExtensions('total');
188 foreach ($results as $key => $value) {
189     if (isset($value['code'])) {
190         $code = $value['code'];
191     } else {
192         $code = $value['key'];
193     }
194     $sort_order[$key] = $this->config->get($code . '_sort_order');
195 }
196 array_multisort($sort_order, SORT_ASC, $results);
197
200 foreach ($results as $result) {
201     if (isset($result['code'])) {
202         $code = $result['code'];
203     } else {
204         $code = $result['key'];
205     }
206 }
207 if ($this->config->get($code . '_status')) {
208     $this->load->model('extension/total/' . $code);
209 }
210 // We have to put the totals in an array so that they pass
211 // by reference.
212 $this->{'model_extension_total_' . $code}->getTotal($
213     total_data);
214 ($totals[count($totals) - 1]) && !isset($totals[
```

```
354 }
355 this.$items = item.parent().children();
356 return this.$items.index(item || this.$active);
357
359 Carousel.prototype.getItemForDirection = function (direction, activeIndex) {
360     var delta = direction == 'prev' ? -1 : 1;
361     var activeIndex = this.getItemIndex(activeIndex);
362     var itemIndex = (activeIndex + delta) % this.$items.length;
363     return this.$items.eq(itemIndex);
364 }
365
366 Carousel.prototype.to = function (pos) {
367     var that = this;
368     var activeIndex = this.getItemIndex(this.$active = this.$element.find('.active'));
369     if (pos > (this.$items.length - 1) || pos < 0) return;
370     if (this.sliding) return this.$element.one('slid.bs.carousel', function () {
371         that.to(pos);
372     });
373     if (activeIndex == pos) return this.pause().cycle();
374     return this.slide(pos > activeIndex ? 'next' : 'prev', this.$items.eq(pos));
375 }
376
377 Carousel.prototype.pause = function (e) {
378     e || (this.paused = true);
379 }
380
381 if (this.$element.find('.next, .prev').length && $.support.transition) {
382     this.$element.on('click.bs.carousel', function (e) {
383         var direction;
384         if (e.target.tagName === 'A') {
385             direction = e.target.getAttribute('data-direction') || 'next';
386             e.preventDefault();
387             this.pause();
388             this.to(this.getItemIndex(this.$active) + (direction === 'next' ? 1 : -1));
389         } else {
390             this.pause();
391             this.cycle();
392         }
393     });
394 }
395
```


... start your journey to cloud transformation



**Join the DevOps
movement**



**Look at the Entire
System**

01

Amplify Feedback Loops

02

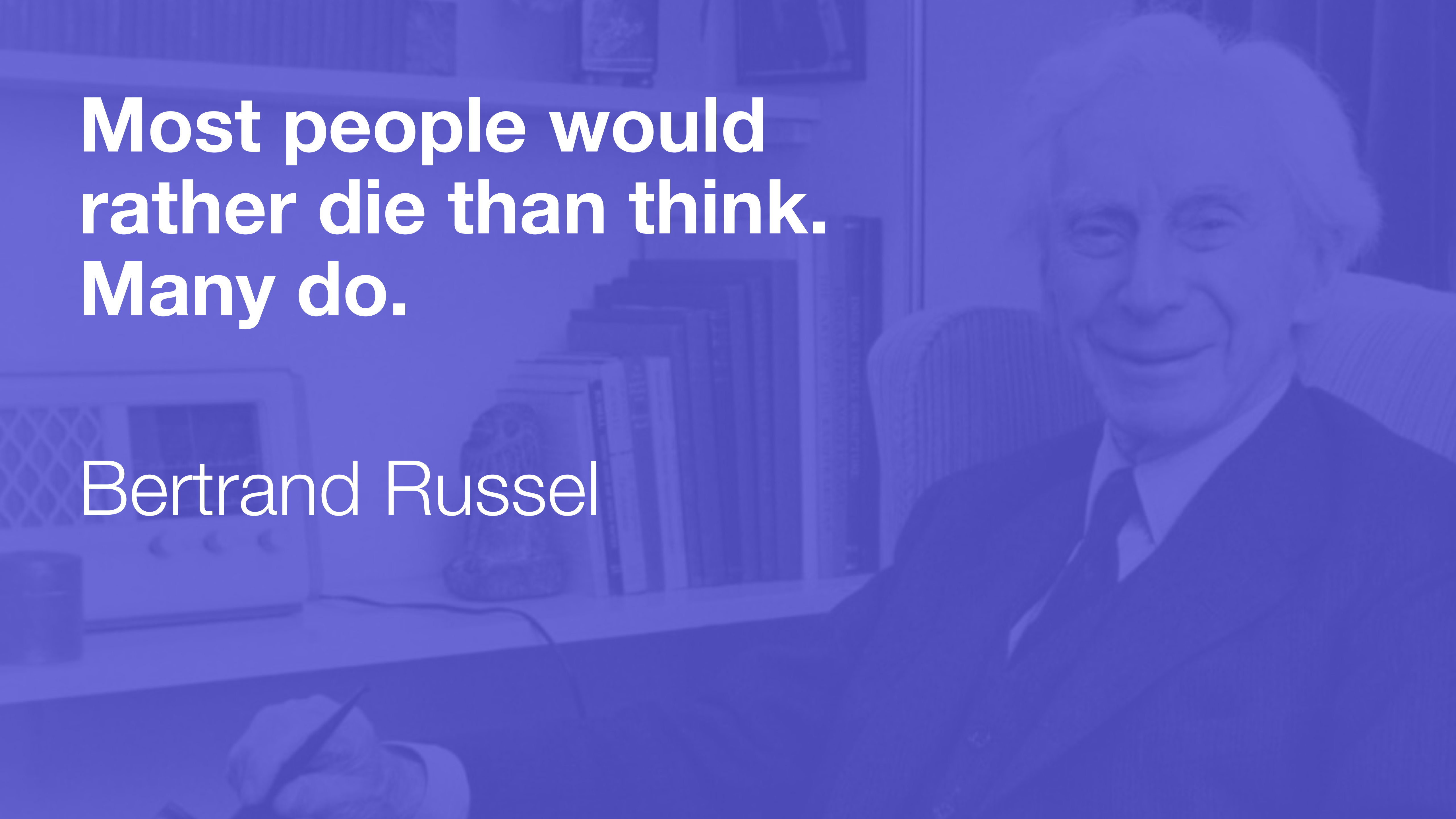
Never Stop Experimenting and Learning

—

03

**Most people would
rather die than think.
Many do.**

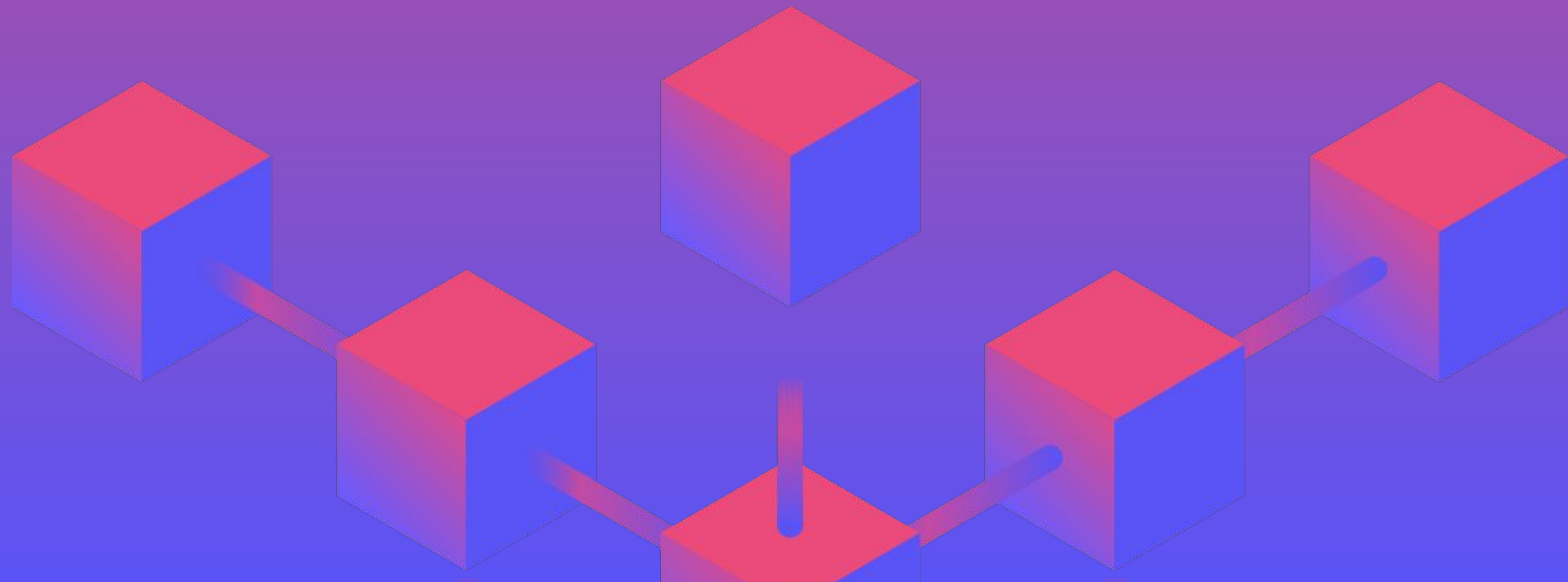
Bertrand Russel



**Let the robots
take over:** cloud is
for machines talking
to each other



**Starting from the DevOps
fundamentals we built Automium,
our solution for cloud transformation**





From DevOps to GitOps: versioned CI/CD on top of declarative infrastructure



**The entire system including code,
config, monitoring rules and
policies is described in Git**

—

01

**The entire system can be destroyed
and re-built with no human
intervention**

—

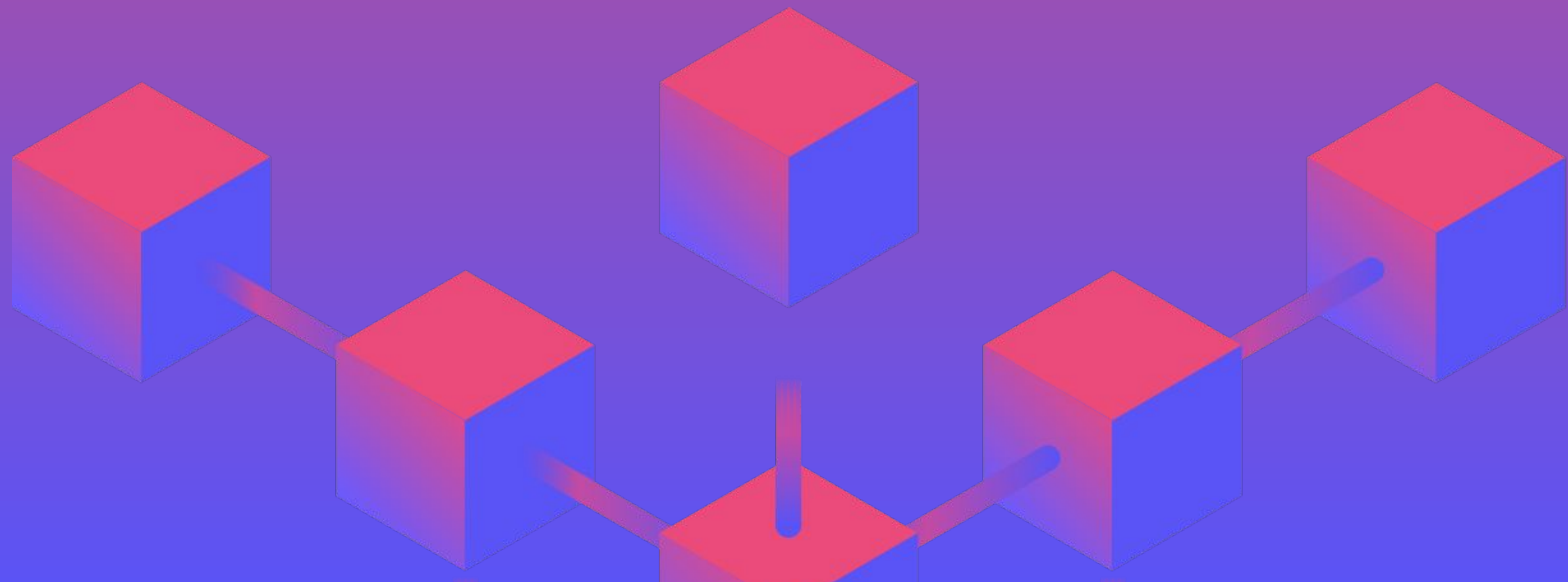
02

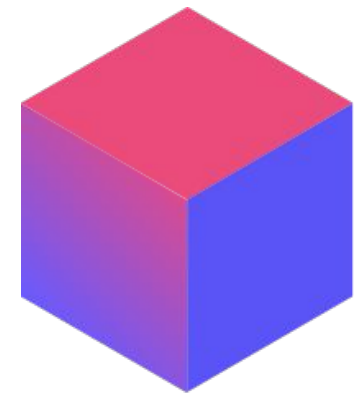
**Monitoring and observability
is baked into the beginning**

—

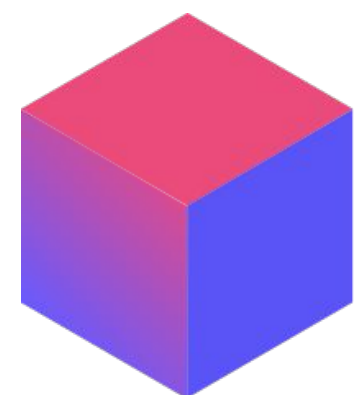
03

Automium can help you undertake this journey

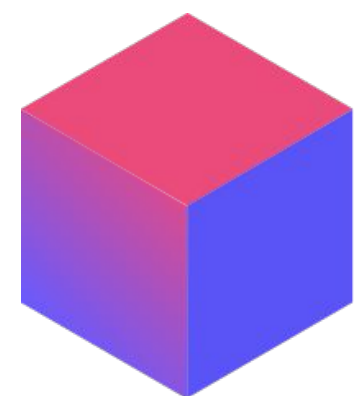




**Source Code
Management**



**Continuous
Integration**



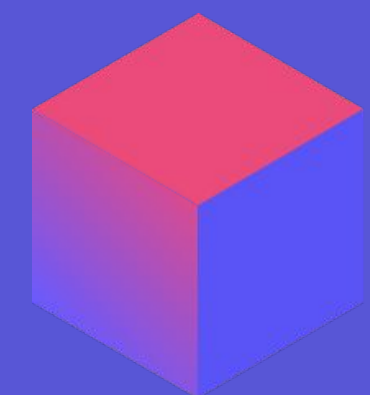
**Continuous
Delivery**



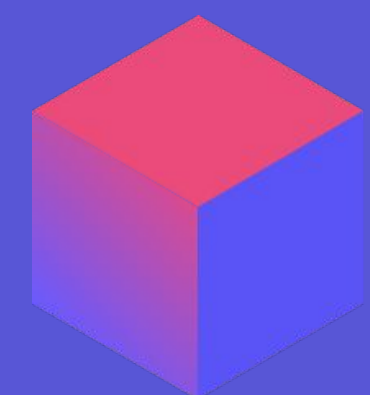
DEV



— OPS



**Continuous
Deployment**

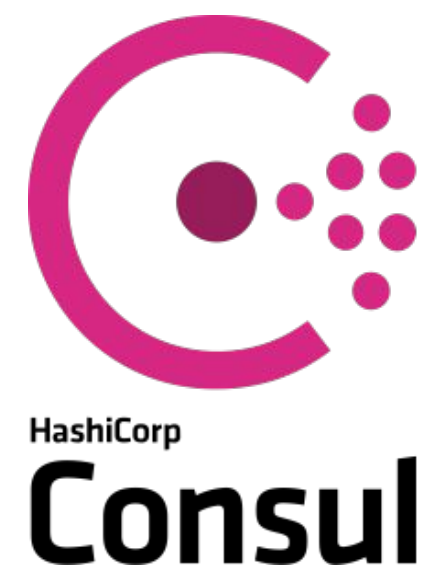
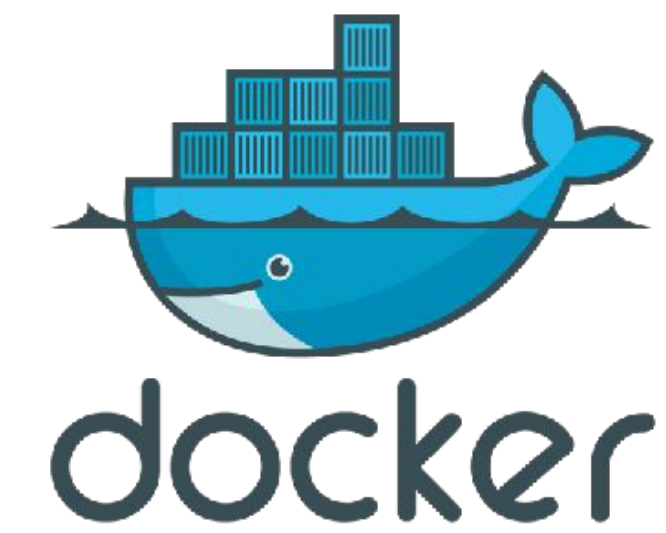


**Infrastructure
as a Service**

*Monitoring
& Alerting*



Automium integrates with





**Want to share
our journey?
Let's talk!**

Mariano Cunietti

mcunietti@enter.eu - @mcunietti

www.entercloudsuite.com

