

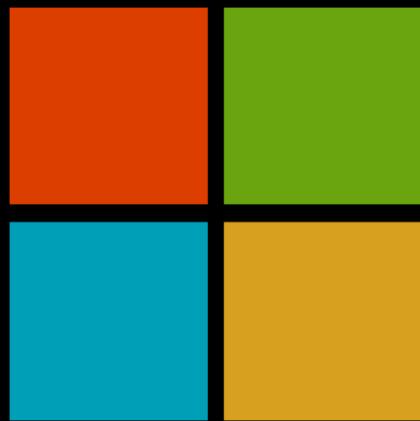


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LINKS:

- These links have been mentioned during the session either during Q&A or the presentation itself
 - Nodejs.org
 - <http://www.nodebeginner.org/> (a must-read when you plan to pickup Node)
 - <http://nodeguide.com/> (manuals on best practices and code etiquette)
 - <http://www.youtube.com/watch?v=L0pjVclsU6A> (video on Node with a detailed section on benchmarking Node in comparison with other languages/platforms.)
 - Meteor.com (what the web will be in a couple of years)
 - piepe.co (Meteor App for real-time interactive event evaluation)
 - <http://www.sublimetext.com/2> (one of the most used editors in the Node community, [WebMatrix](#) also support Node including project templates)



Microsoft®

A collage of images depicting a scientist at work. In the top left, a hand in a white lab coat and gloves holds a green bottle and pours its contents into a clear glass. In the center, a man with a mustache and glasses smokes a cigarette, with smoke visible. In the bottom left, several test tubes containing different colored liquids are held in a metal stand. The overall theme suggests a mix of scientific research and personal indulgence.

Server

side

Javascript... ● ● ●

THEORY



DEMOS



A photograph of a man with short brown hair and a light beard, wearing a brown and white striped long-sleeved shirt and blue jeans, standing on a stage and speaking into a microphone. He is looking slightly to his left. A large, white, rounded rectangular speech bubble originates from his mouth and extends towards the right side of the frame. Inside the bubble, the text "Dude!!! Check this out!" is written in a black, sans-serif font.

Dude!!!
Check this
out!



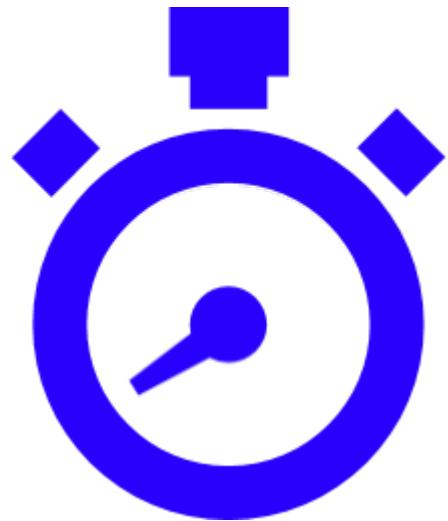
Web servers

















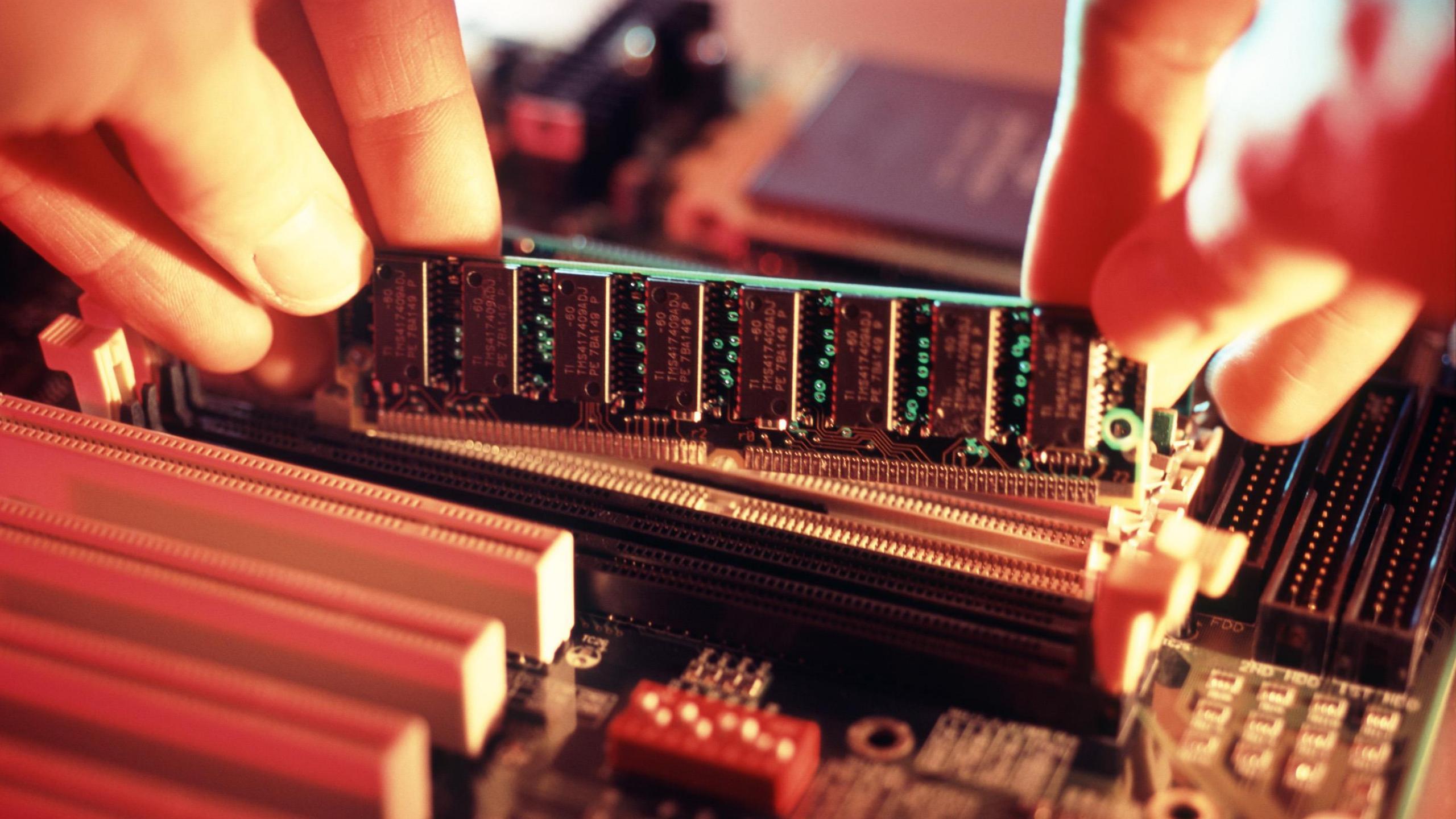


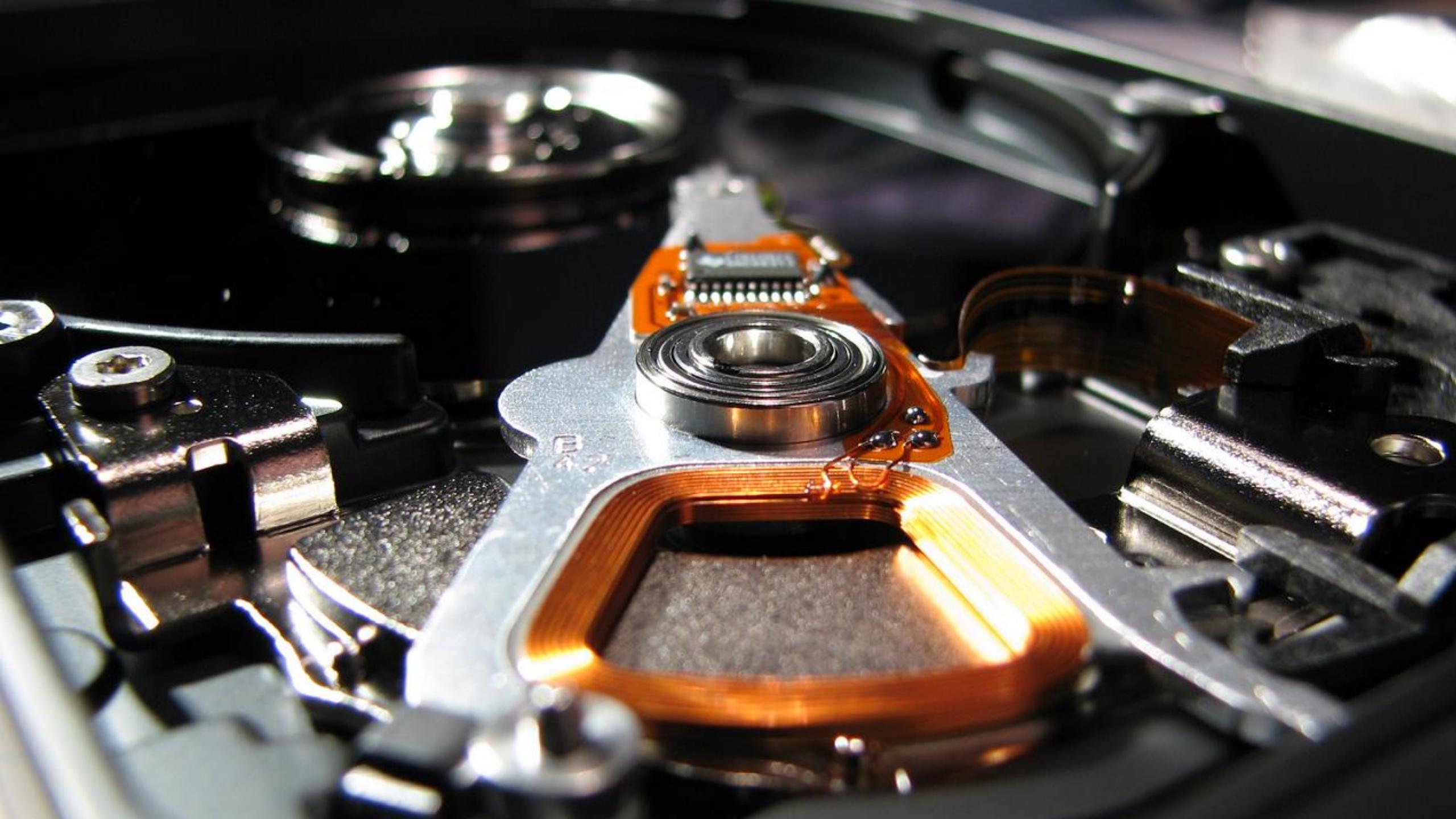




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A4

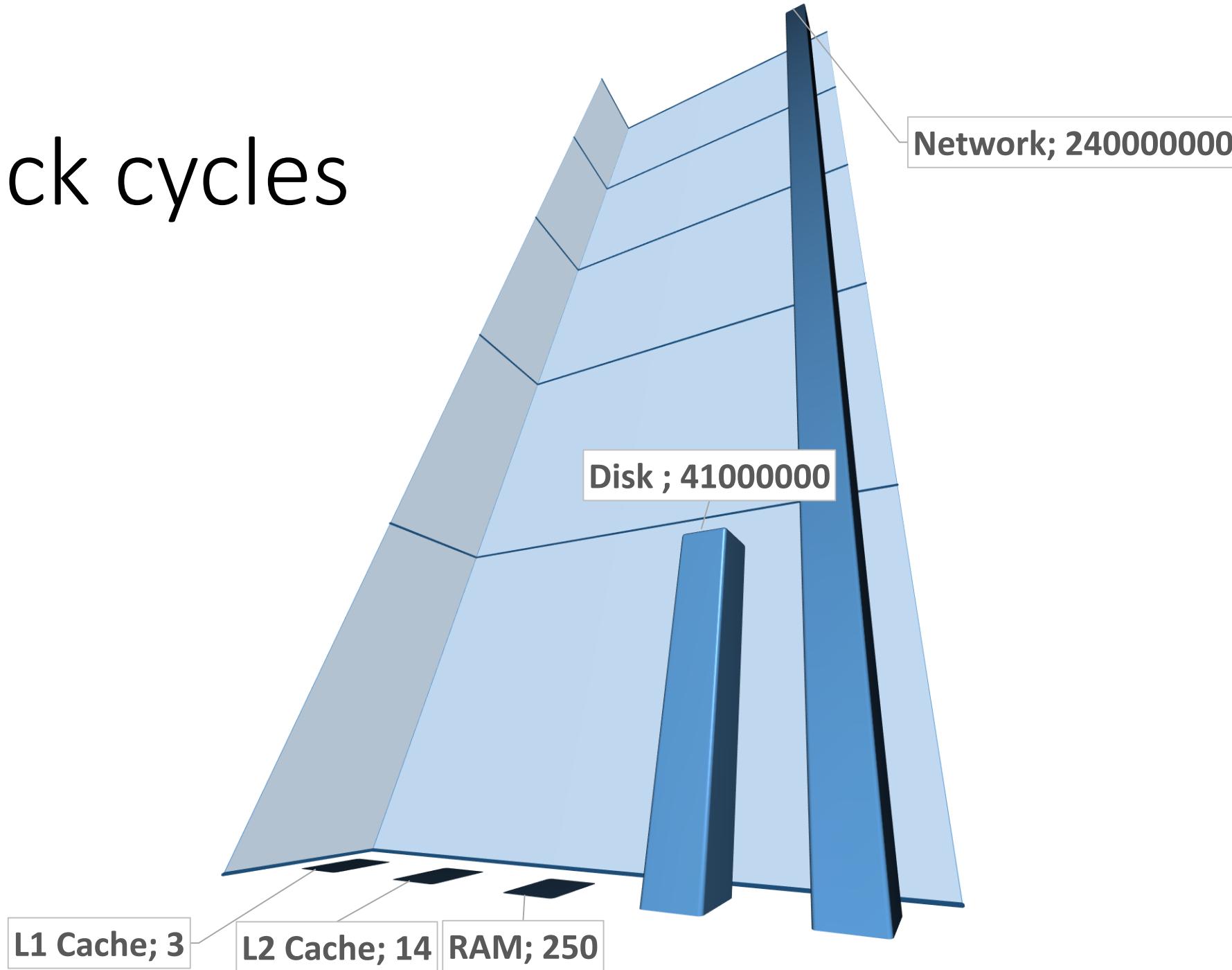
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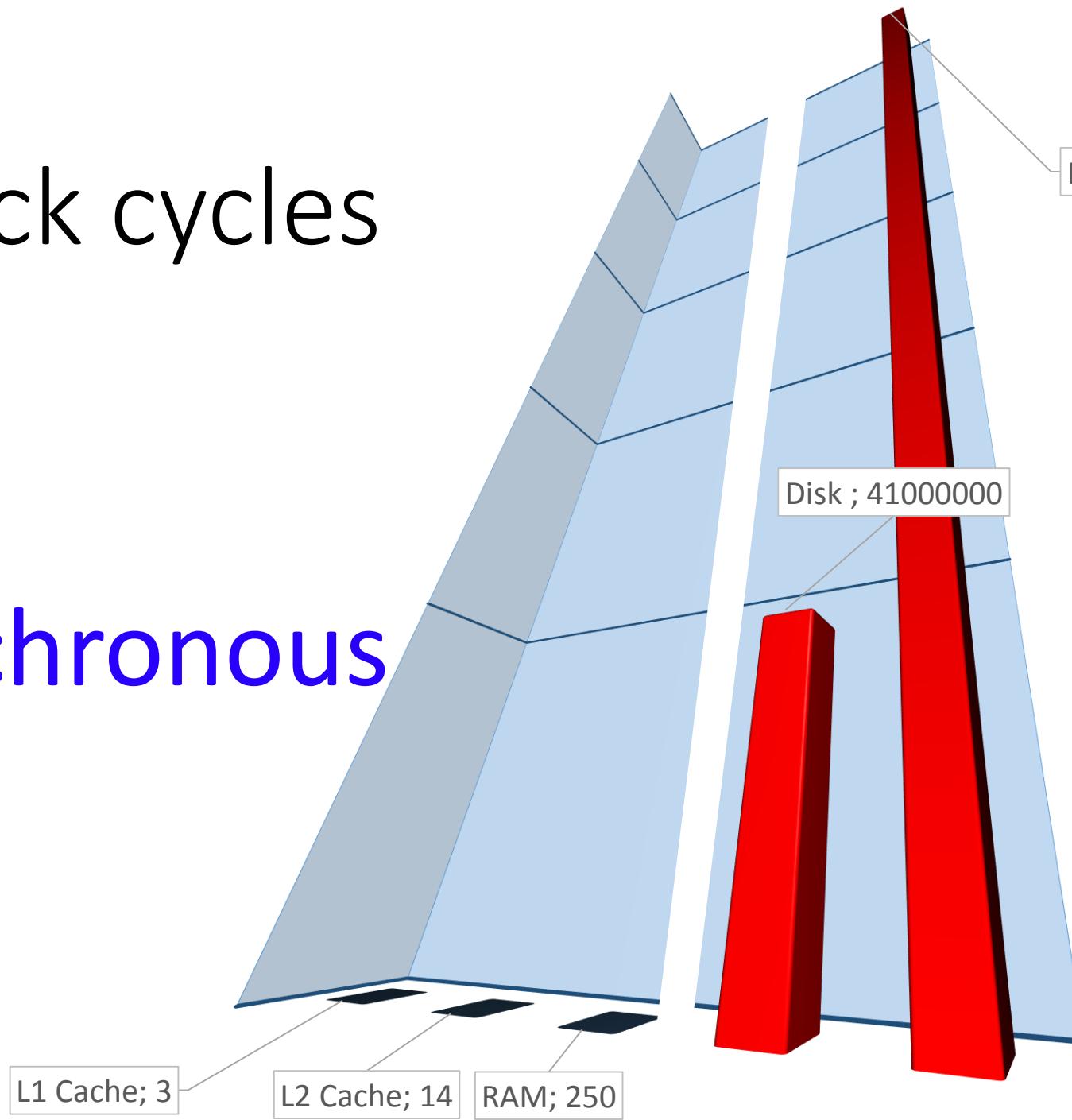
Clock cycles



Clock cycles

Synchronous

Asynchronous

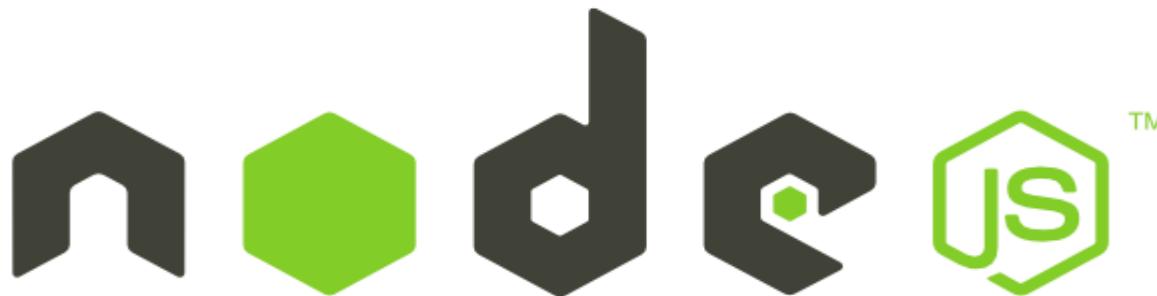


“One of the best things about JavaScript is its simplicity.”

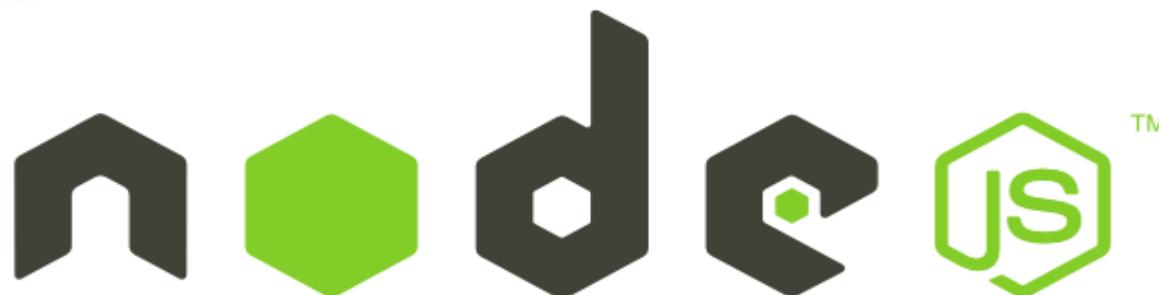
-Ryan Dahl 2009



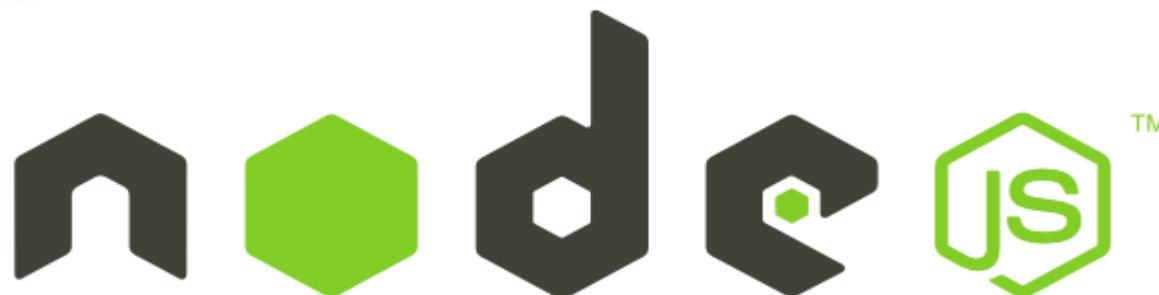
Event
loop

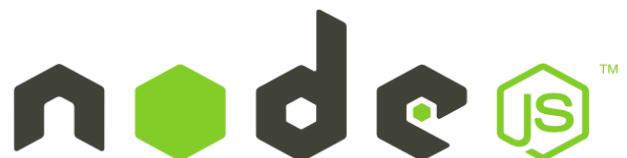
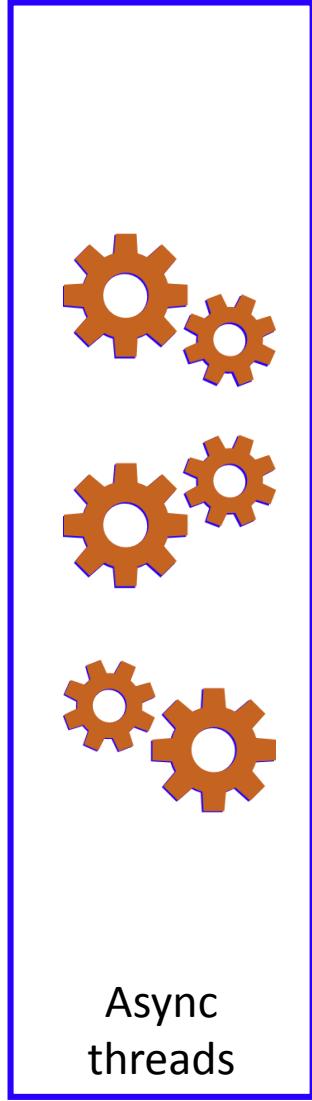
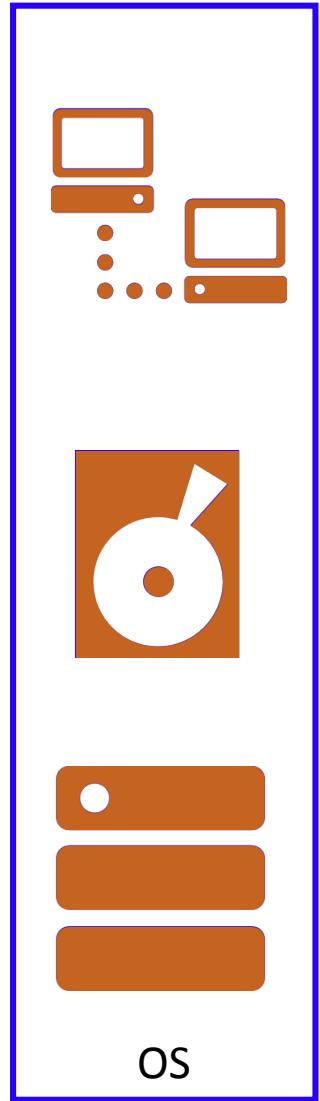


Requests

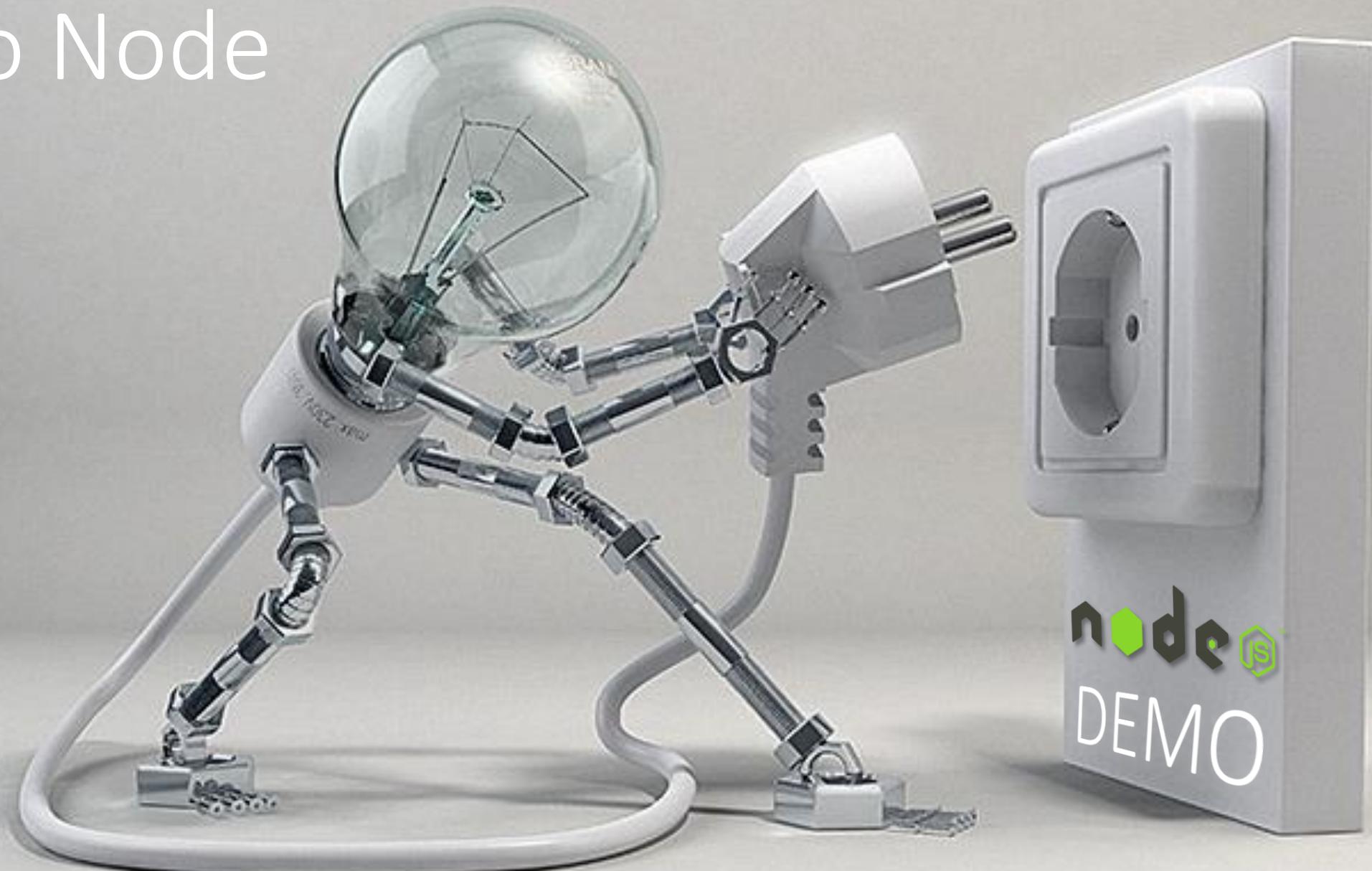


Responses





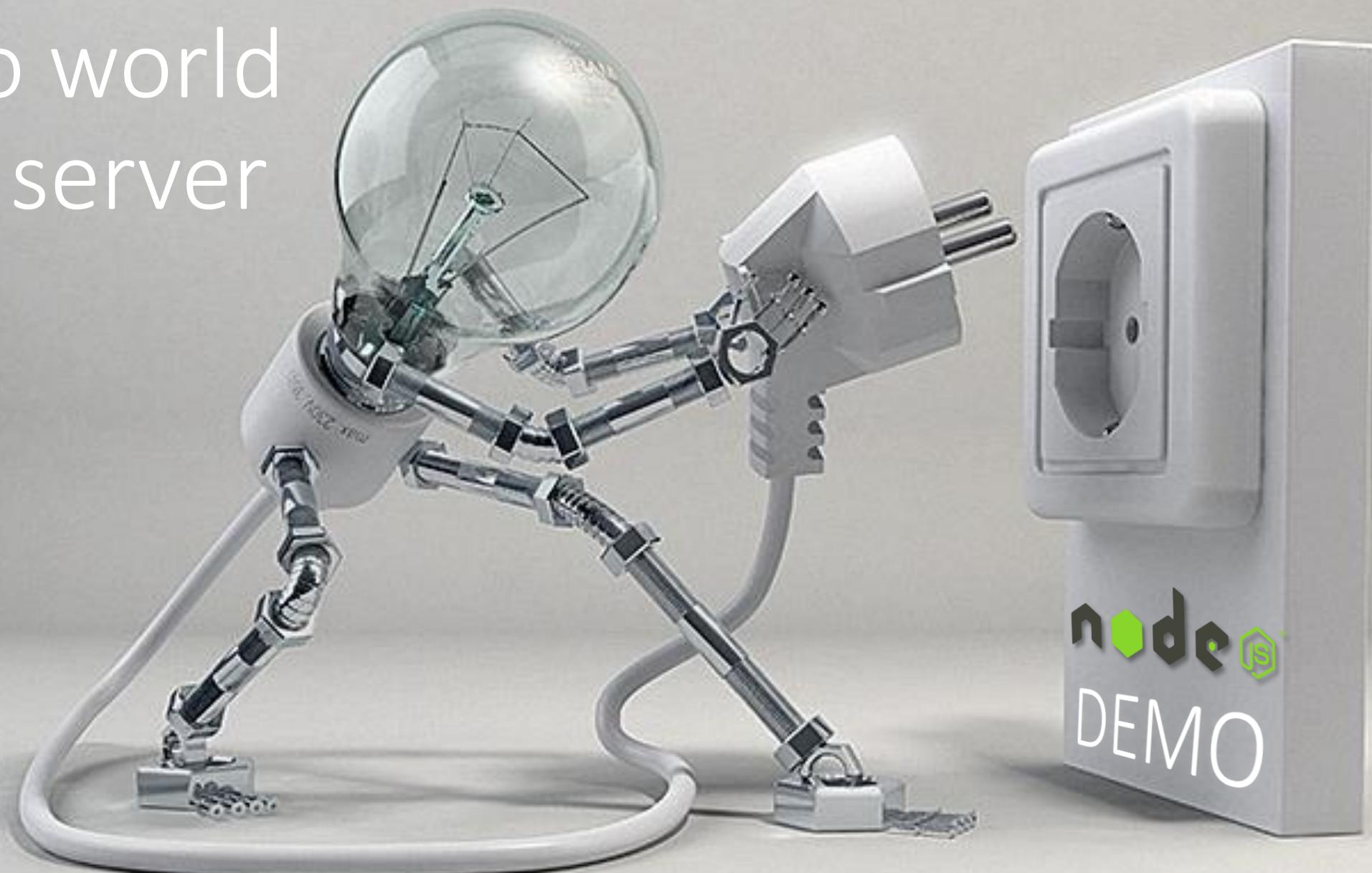
Hello Node



1. *var result = DoSomethingTedious();*
2. *console.log("Waiting for " + result + " took very long.");*

1. *DoSomethingTedious(function(outcome){*
2. *var result = outcome});*
3. *});*
4. *console.log("Didn't wait for anything.");*

Hello world web server



The Boomerang Effect

```
|function append_some_a_to_b(callback) {
|  fs.open(__dirname + '/a.txt', 'r', function(err, aFd) {
|    if (err) {
|      return callback(err);
|    }
|    var buffer = new Buffer(10);
|    fs.read(aFd, buffer, 0, buffer.length, 0, function(err) {
|      if (err) {
|        return callback(err);
|      }
|      fs.close(aFd, function(err) {
|        if (err) {
|          return callback(err);
|        }
|        fs.open(__dirname + '/b.txt', 'a', function(err, bFd) {
|          if (err) {
|            return callback(err);
|          }
|          fs.fstat(bFd, function(err, bStats) {
|            if (err) {
|              return callback(err);
|            }
|            fs.write(bFd, buffer, 0, buffer.length, bStats.size,
|              function(err) {
|                if (err) {
|                  return callback(err);
|                }
|                fs.close(bFd, callback);
|              });
|            });
|          });
|        });
|      });
|    });
|  });
|}
```

npm install async

async.series

.parallel

.waterfall

.map / reduce

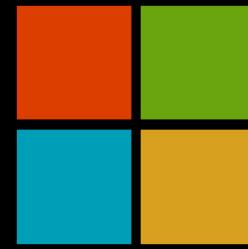
Node Package Manager

commander
underscore
colors async
express
editor mocha
coffee-script
jade optimist
uglify-js redis
socket.io

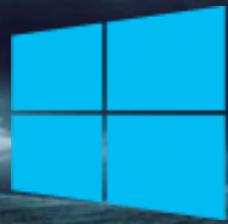


CLOUDFOLDER
Node Azure SDK
'azure' package





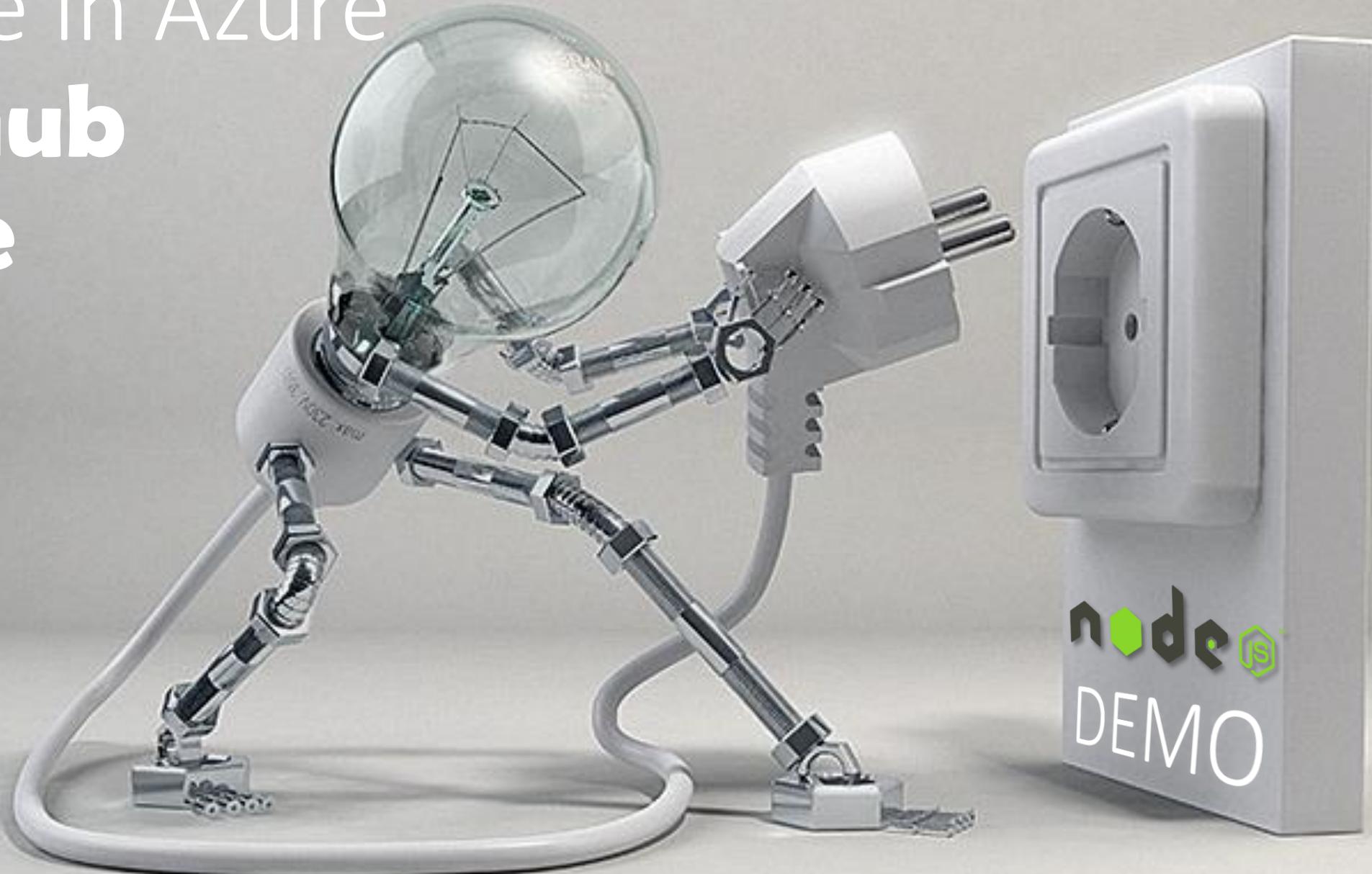
Microsoft®



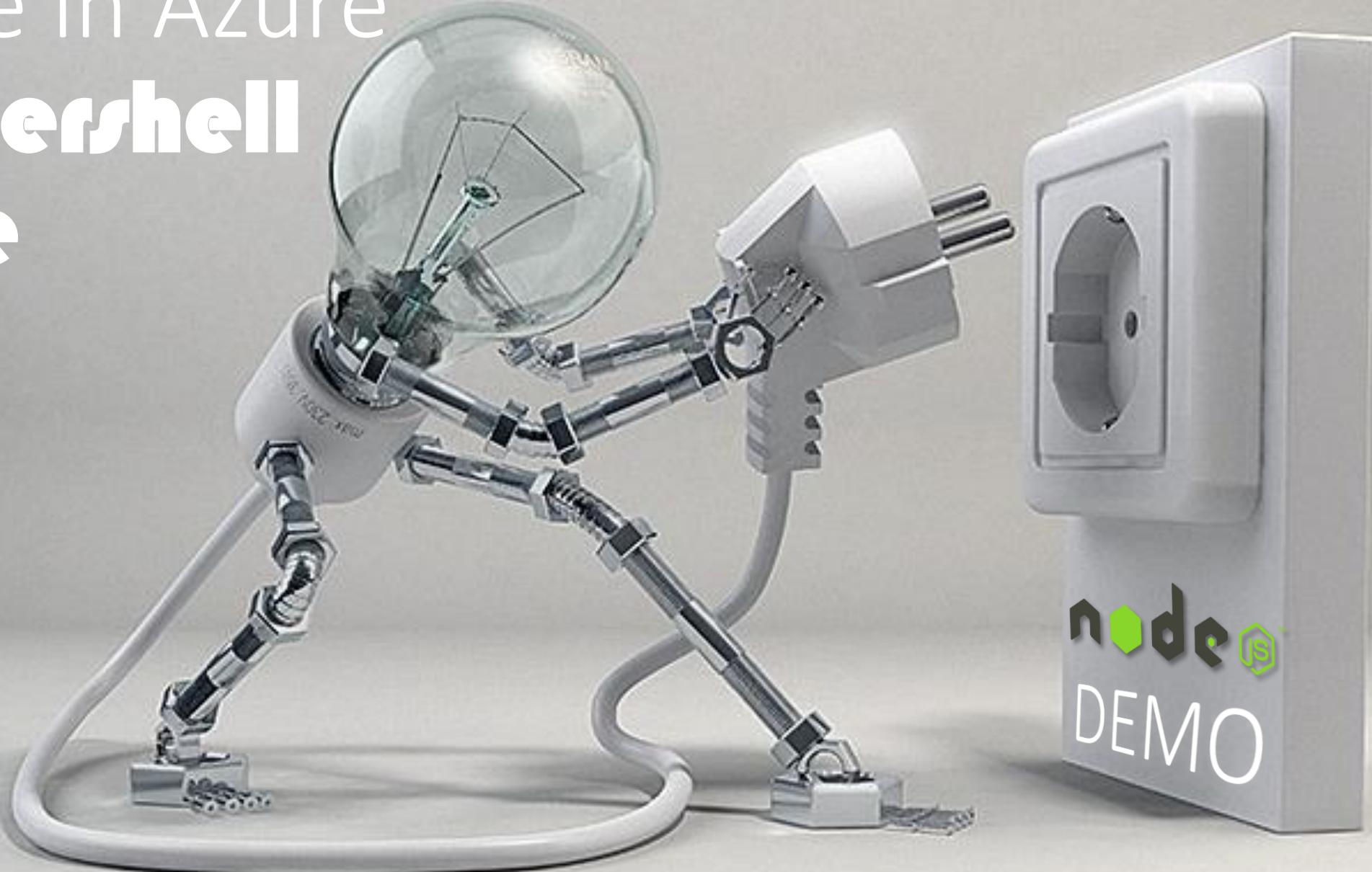
Windows Azure



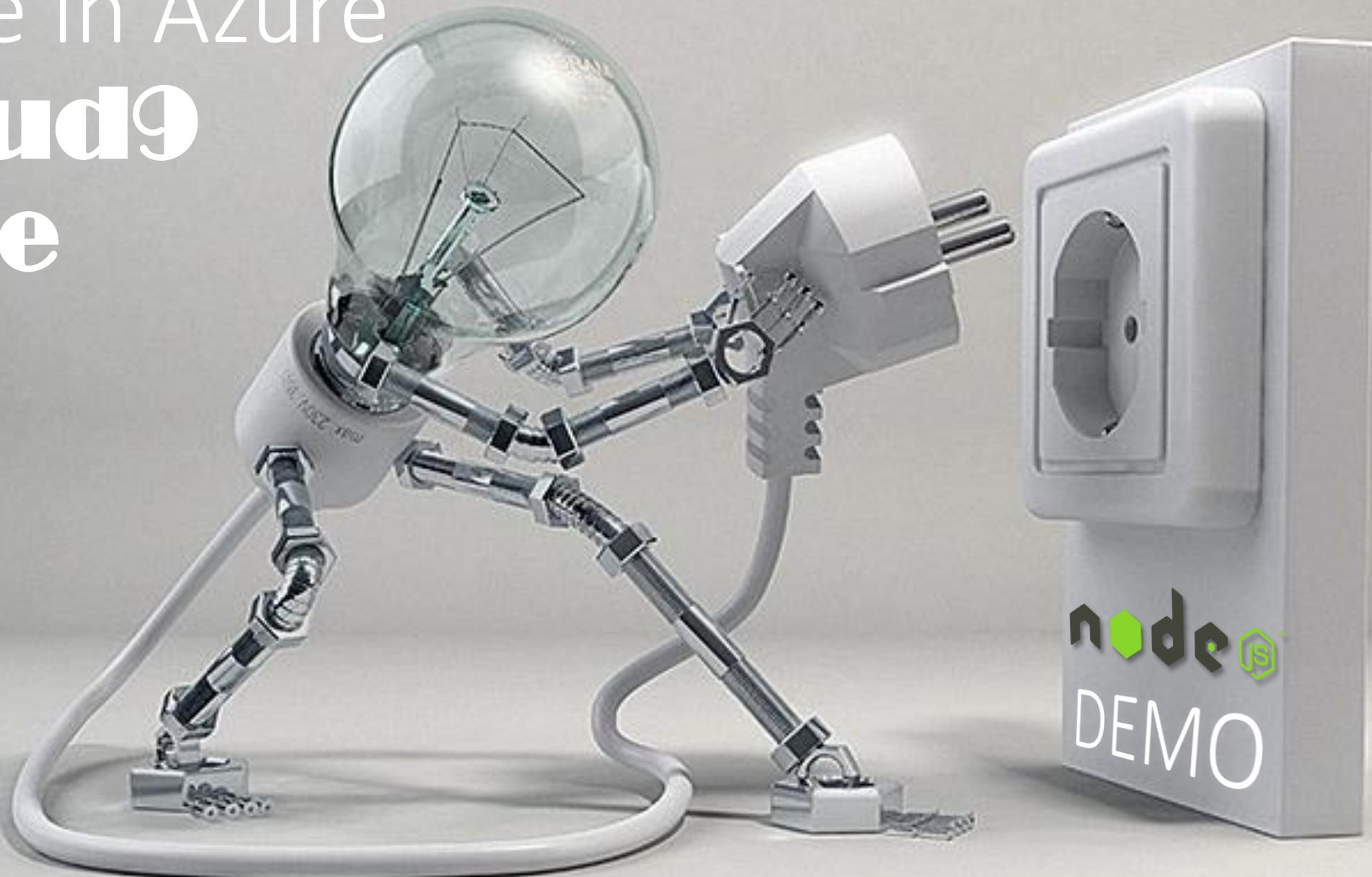
Node in Azure
Github
style



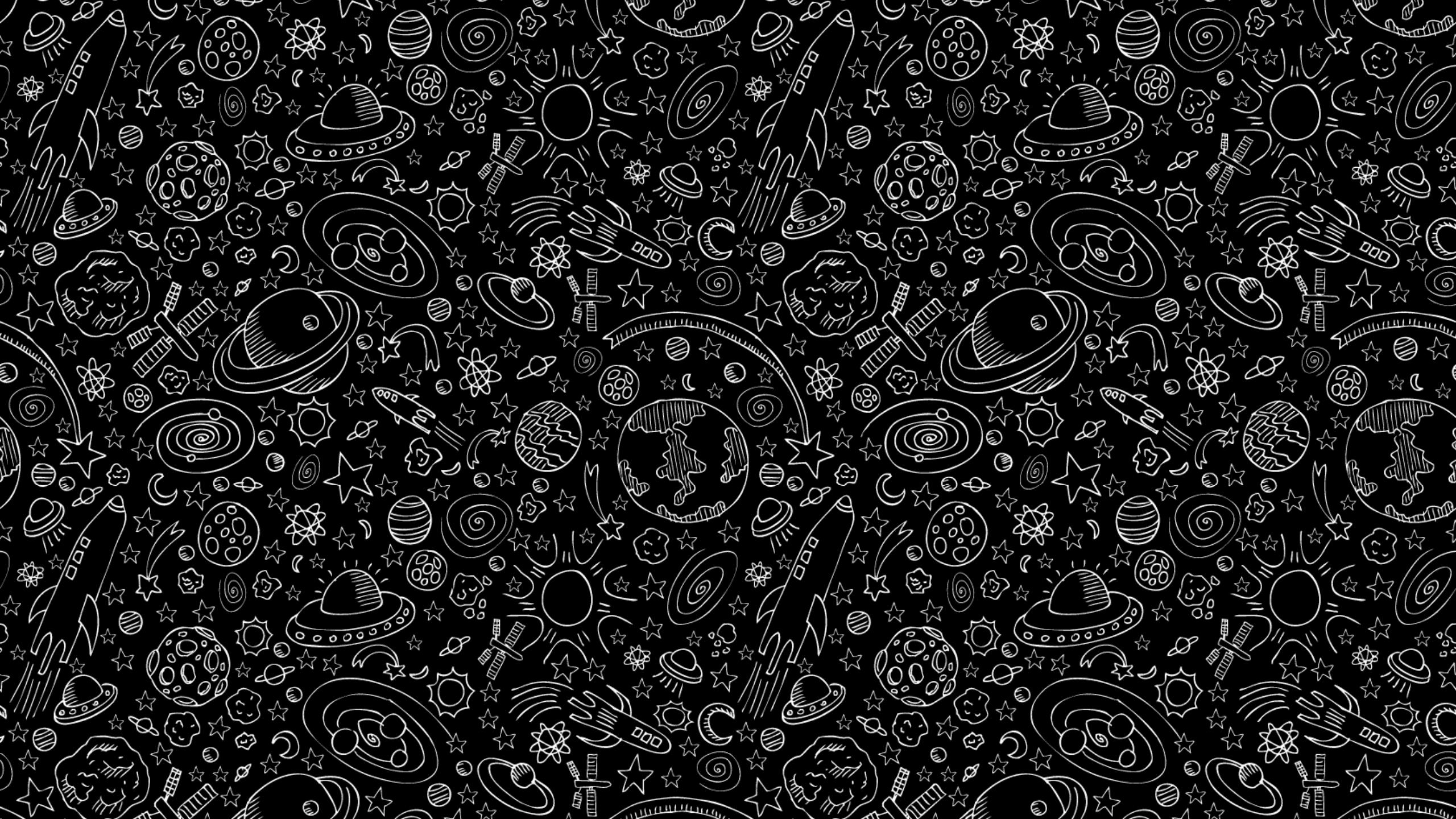
Node in Azure Powershell style



Node in Azure Cloud9 style







Mainframe



Client/Server

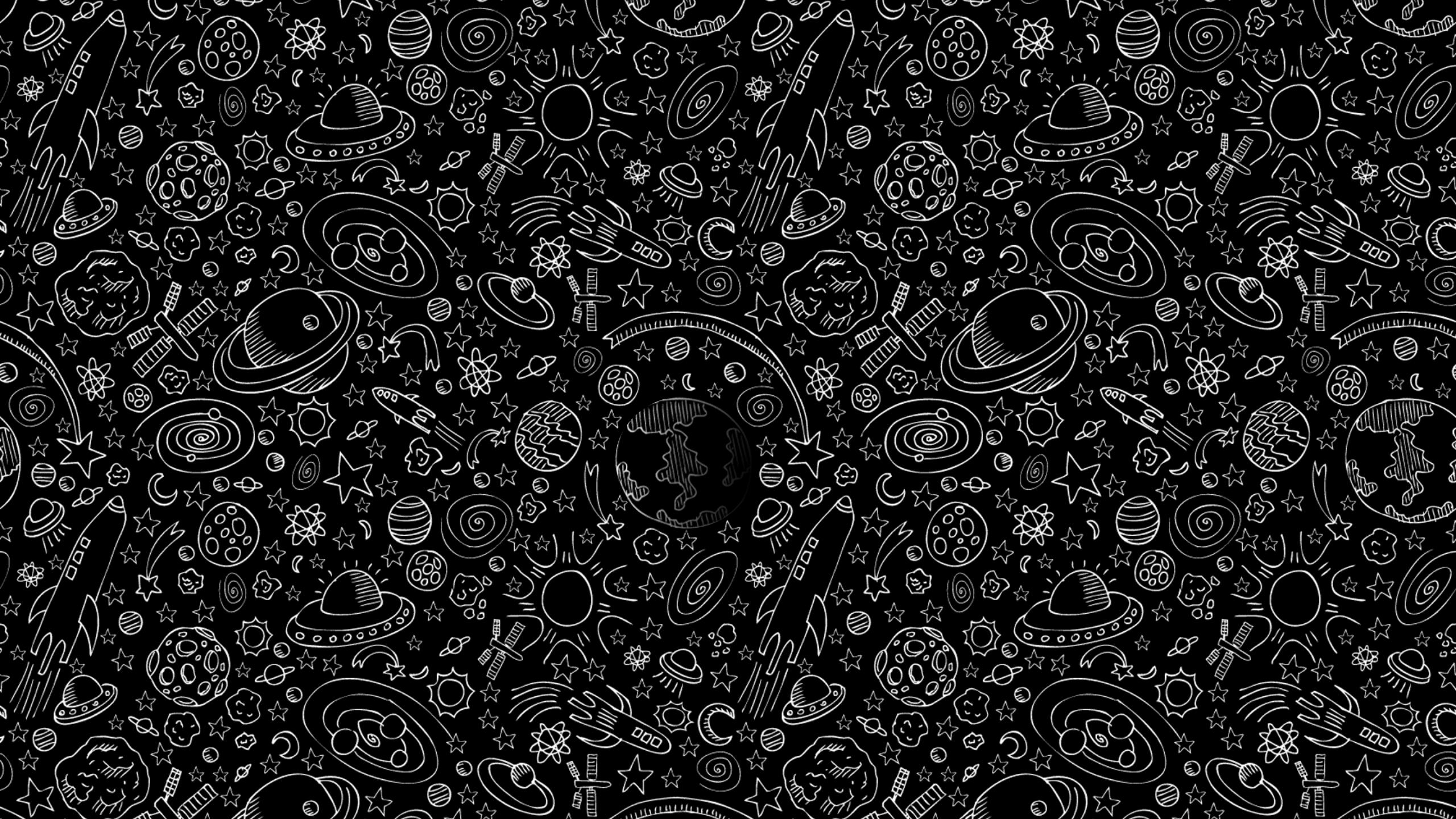


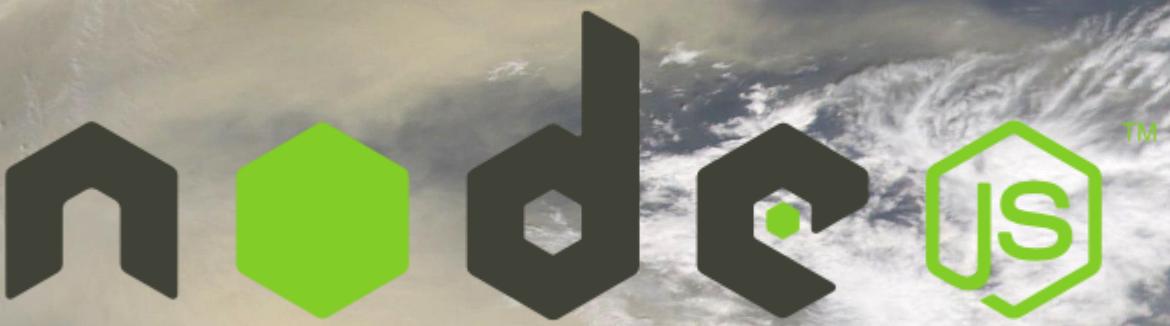
Web



Cloud









joyent



```
select ProductID[0].Value as id, DetailsURL as details, StockPhotoURL as photo
from eBay.FindProducts where QueryKeywords="2nd hand azure instances"
```

```
insert into bitly.shorten (longUrl) values ('http://ql.io/docs')
```

```
keyword = "azure";
web = select * from bing.search where q = "{keyword}";
tweets = select id as id, from_user_name as user_name, text as text
        from twitter.search where q = "{keyword}";
return {"keyword": "{keyword}", "web": "{web}", "tweets": "{tweets}"}
```

YAHOO!

®

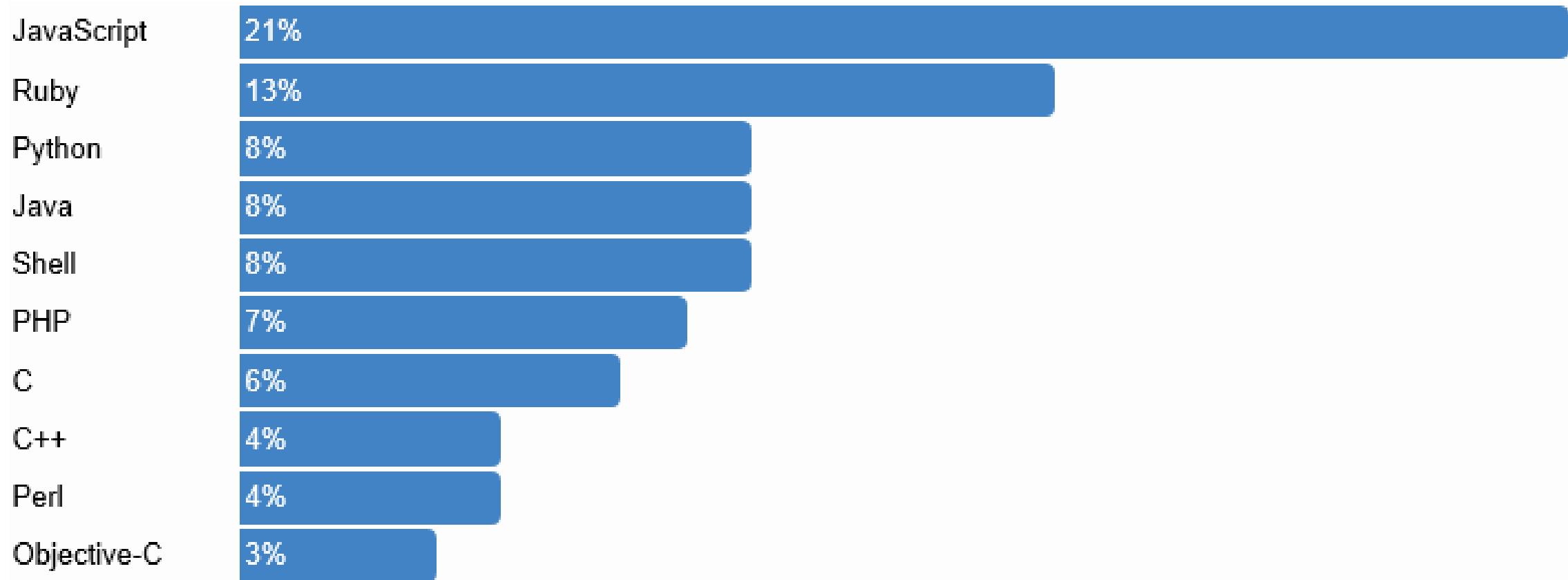
mojito



LinkedIn



Programming languages on GitHub





“HTTP is the back bone of society these days.”

-Ryan Dahl july 2010



