



How to multiply your R computing power in 15 minutes

WhyR2018

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The problem

Potential solutions

What is cloud computing

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- It means that you're not paying for the hardware itself, but for the computing capabilities that this hardware can provide.
- Users are charged for the actual usage.

What is a virtual machine

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The differences include:

- You don't have to own it. You pay for the time used.
- You can modify it's parameters (CPUs, RAM) any time in seconds.
- You don't have to worry about the condition of the hardware, manual backup copies and other technical issues.

Cloud service vendors

- Amazon (Amazon Web Services)
- **Google (Google Cloud Platform)**
- Microsoft (Azure)
- Alibaba Cloud

Google Cloud Platform

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- Gives you 300\$ to try it out for the first 12 months.

Demo

Let's create a **virtual machine** running **RStudio server**, with **16 cores** and **104GB of RAM**.

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This can be done from within the local R session after some initial setup on Google Cloud Platform website.

Few things to remeber

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- If you don't need the machine any longer, **delete it**.

Recap

If you're hitting hardware limits when using R on your own machine use **Cloud Computing services**. They are:

- easy to use

Recap

If you're hitting hardware limits when using R on your own machine use **Cloud Computing services**. They are:

- easy to use
- relatively cheap

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