Amazon EC2

Amazon EC2 (Elastic Compute Cloud) is a web based service composed of a network of server hardware that users can access. Amazon EC2 allows easier automated scaling, and we would only have to pay for the resources we use. It is not recommended for small companies to use such services, but our big company would greatly profit. Based on the usage, we can determine what works best for us and configure it right away without long interruptions, manual configurations, complex adjustments and unpredicted risks.

Some of the characteristics that we will benefit from are the ability to solve networking issues faster, scale to any size at any time required, reduce point of failure and recovery times. Aside from these benefits, we have a lot of flexibility in picking server type and instance types needed for each compartment of our applications.

Amazon went even further and hosts applications on servers spread out across the globe, to make sure content is delivered fast and there is no interruption in the application if servers in one part of the world go down.

In short, to set up we would need to create an AMI (Amazon Machine Image) that contains application programs and settings. AMI is then uploaded to Amazon Simple Storage Service and is registered with EC2, giving is a specific ID. To SSH into the instance, we will need to create a key pair using a service like Putty. Once the instance is created, we can proceed to creating other instances (as many as we need) and configuring them depending on the needs.

In conclusion, Amazon EC2 will allow us full control over our applications and help us improve and automate some things that we have been lacking in, reduce costs, allow to scale well, and provide reliability.

If you need more information, I would be glad to talk more about Amazon EC2 and work on a plan to transition to it if you and other executives decide to follow through with it.