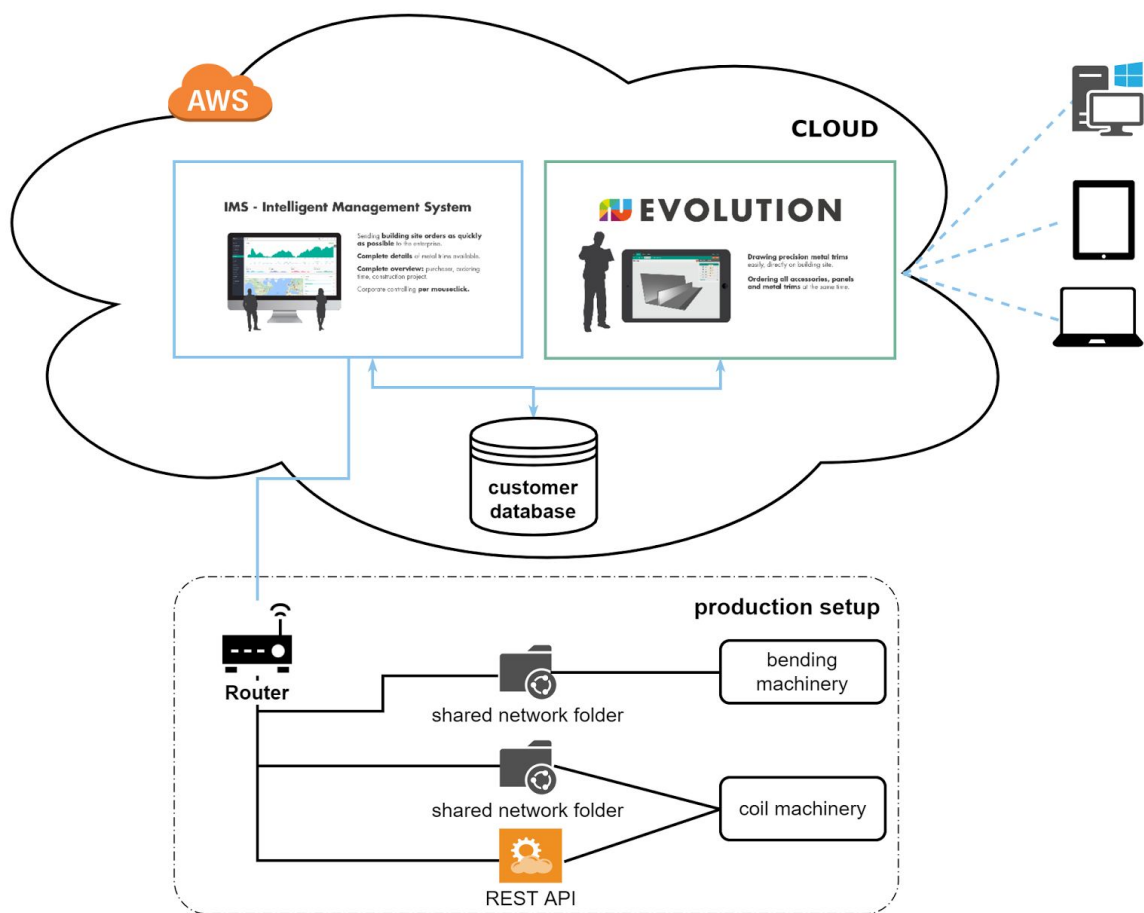


# nuT System architecture

We provide 2 options to host the nuT system. You have the choice to host the nuT system

- as a cloud service ([Cloud](#))
- locally at your company ([Local](#))
- (individual solutions - hybrid)

## Cloud



- +order inputs on remote (EVO webshop-system)
- +most efficient with regards of service- and maintenance (updates)
- +interconnection of sites
- +no additional hardware components needed
- production needs to have internet connection at any time

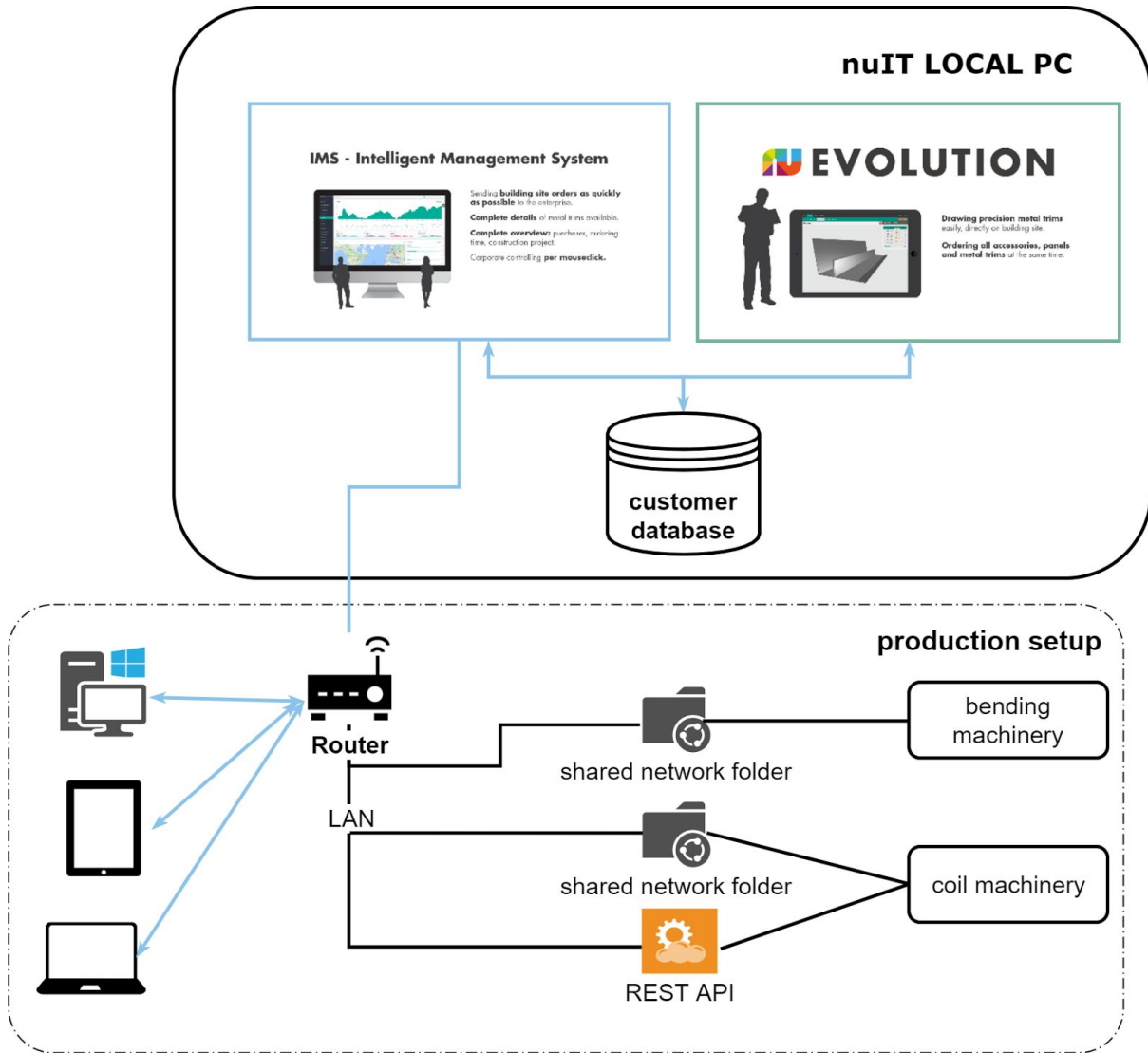
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## FAQs

- The whole system components (EVO, IMS, customer database) are hosted in cloud (AWS - Amazon Web Services datacenter).
- fail-safe: load balancers guarantee high-performance
- Data is stored in the cloud (AWS datacenter). The customers database is connected to the cloud and shares data with the cloud. The cloud system provides machine connection via shared folders or API (depends on the machine manufacturer and model).
- No local nuit PC required.
- Cloud hosted by nuit - AWS is preferred by nuit but other providers are possible if desired by the customer.
- For maintenance nuit needs no connection to the customers local LAN.

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## Local



- +secure production (no dependencies regarding internet connection)
- +production data exchange in real time
- increased effort regarding service and maintenance (updates)
- no interconnection of sites

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## FAQs

- The whole system components (EVO, IMS, customer database) are running on a local PC in the local network (LAN) of the customer.
- The local PC is provided by nuIT. Data is stored locally.
- The customer's database is connected only to the local system. The individual components are connected through a local LAN router. No internet connection required (all systems run in your company's LAN). No remote access by default - nuIT systems are only accessible over LAN.
- The local system provides machine connection via shared folders or API (depends on the machine manufacturer and model).
- A shared network folder for each bending machine is required
- For maintenance nuIT needs a connection to the local PC (vpn, ssh or other).

## Why nuIT prefer Amazon Web Services (AWS)

Our servers are currently hosted in the Amazon Web Services data center in Frankfurt. We would implement an equivalent system in the Amazon Web Services data center in Sydney (for Bluescope).

The application access is allowed via load balancers through secure communication channels. Direct access to the application servers is not possible. The application servers only communicate with the load balancers.

Our applications services are designed to be secure, highly available and fault-tolerant. The security is accomplished via fine-grained access controls for all network resources. Data flow between the network components is allowed only via specific, pre-defined channels. Every component has access only to the resources it needs to operate. High availability and fault-tolerance are implemented with auto scaling so that unhealthy components are replaced automatically by healthy ones and more servers are spawned automatically when resources (network, cpu, ram) reach a certain limit. This is possible without any interruptions to the service.

The application data is stored persistent in a secure, redundant database, spread over more availability zones so that any hardware failure in an underlying resource has no impact on the stored data. Data availability and access is guaranteed all the time.

All our servers are monitored 24/7 through an internal monitoring system.

**nuIT ticket call-back service 24/7 for non-urgent matters <https://nu-it.at/contact>**

**nuIT Service hotline (phone) 24/7 for urgent matters +43 720 303 899**

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