

Cost Calculation for Smarthome

\$150.38

Average per month

(\$0.00 charged upfront)

=

\$150.38

Average per month

(\$0.00 charged upfront)

Managed Disks	\$0.00
Storage transactions	\$0.00
Bandwidth	\$0.00
Upfront cost	\$0.00
Monthly cost	\$150.38

Support

SUPPORT:

Standard

\$100.00

Virtual Machines

1 A3 (4 Cores, 7 GB RAM) x 1 Month (Pay as you go), Linux ...

Upfront: \$0.00

Monthly: \$150.38

Virtual Machines

Give feedback

Get \$200 credit plus free monthly amounts of popular services for 12 months—including Virtual Machines. See free amounts

Region: Poland Central

Operating system: Linux

Type: Ubuntu

Tier: Basic

Category: General purpose

Instance Series: All

INSTANCE: [\(Need help finding the right VM?\)](#) A3: 4 Cores, 7 GB RAM, 120 GB Temporary storage, \$0.206/hour

1 Virtual machines

x

1 Month

Cost Plan – SmartHomeHubDoeb (Azure Cloud Infrastructure)

1. Overview

This cost plan estimates the monthly operational costs of the **SmartHomeHubDoeb** smart home IoT system deployed on Microsoft Azure.

The system is designed as a **small-scale academic project**, using minimal cloud resources while still demonstrating real-world IoT cloud architecture.

All prices are calculated using **Pay-As-You-Go** pricing in the **Poland Central** region.

2. Virtual Machine Costs

Azure Virtual Machine (Linux – Ubuntu)

The project uses **one Azure Virtual Machine** to support auxiliary services such as testing, simulations, or optional backend components.

Selected VM configuration:

- VM Size: **A3**
- vCPUs: **4**
- RAM: **7 GB**
- Operating System: **Ubuntu Linux**
- Pricing model: Pay-As-You-Go
- Region: Poland Central

Cost breakdown:

- Hourly cost: **~\$0.206/hour**
- Monthly cost (1 VM, running full month): **\$150.38**
- Upfront cost: **\$0.00**

This VM provides sufficient performance for development, testing, and demonstration purposes, although it is more powerful than strictly required for a basic smart home scenario.

3. Storage Costs

Managed Disks

- OS disk included with VM
- No additional managed disks configured

Monthly cost: \$0.00

Storage Transactions

- Minimal read/write operations due to low telemetry volume
- Covered by free tier or negligible usage

Monthly cost: \$0.00

4. Network & Bandwidth Costs

- IoT telemetry messages are small JSON payloads
- Low-frequency device communication
- No heavy data transfers or external traffic

Bandwidth cost: \$0.00

5. Support Plan

- Azure **Standard Support** selected
- Intended mainly for account-level support, not required for production uptime

Monthly cost: \$100.00

Note: For academic projects, Azure Support is optional and can be excluded to reduce total cost.

6. Summary of Monthly Costs

Component	Monthly Cost
Azure Virtual Machine (A3)	\$150.38
Managed Disks	\$0.00
Storage Transactions	\$0.00
Bandwidth	\$0.00
Azure Support (Standard)	\$100.00
Total Monthly Cost	\$250.38