

# Cost Calculation for Smarthome

\$150.38	=	\$150.38
Average per month (\$0.00 charged upfront)		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	①	\$100.00
Virtual Machines	① 1 A3 (4 Cores, 7 GB RAM) x 1 Month (Pay as you go), Linux, ...	Upfront: \$0.00	Monthly: \$150.38

## Virtual Machines

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Region:	Operating system:	Type:	Tier:
Poland Central	Linux	Ubuntu	Basic
Category:	Instance Series:	INSTANCE: <a href="#">Need help finding the right VM?</a>	
General purpose	All	A3: 4 Cores, 7 GB RAM, 120 GB Temporary storage, \$0.206/hour	
1	x	1	Month
Virtual machines			

# 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

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