

# Where can I find hardware requirements for a BYOC implementation based on number of employees?

Last Modified on 02/17/2023 5:10 pm EST

## Bring Your Own Cloud (BYOC)

In PoliteMail 5.0, you can deploy a “bring your own cloud” infrastructure using Microsoft Azure (AWS application servers with a SQL instance will also work). Compared to traditional on-premises deployment, BYOC offers a more streamlined setup process using cloud services.

The information below lists your hardware requirements based on the number of employees:

### Up to 10k Employees

Firewall / Load Balancing	1x Regional WAF (optional)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S2 <b>Option 2:</b> Standard _D2_v5 (Azure) or m5n.large (AWS)
Database	Azure SQL - 2 vCores (or AWS RDS equivalent)
SMTP Server	Runs on Primary Node

### 10k to 20k Employees

Firewall / Load Balancing	1x Regional WAF (optional)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S3 <b>Option 2:</b> 1x Standard _D2ads_v5 (Azure) or m5zn.large (AWS)
Database	Azure SQL - 2 vCores (or AWS RDS equivalent)
SMTP Server	Runs on Primary Node

### 20k to 30k Employees

Firewall / Load Balancing	1x Regional WAF (Application Gateway)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S3 w/Scale out 2 instances <b>Option 2:</b> 2x Standard _D2_v5 (Azure) or m5n.large (AWS)
Database	<b>Option 1 (Recommended):</b> Azure SQL – 4 vCores, 30GB memory <b>Option 2:</b> Standard D4as_v5 (Azure) or mzn.xlarge (AWS) + SQL Server Web license 4 x Premium SSD LRS (128 GB, 128 GB, 64 GB, 256 GB) or AWS RDS equivalent
SMTP Server	Runs on Primary Node

### 30k to 50k Employees

Firewall / Load Balancing	1x Regional WAF (Application Gateway)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S3 w/Scale out 3 instances <b>Option 2:</b> 2-3x Standard _D2_v5 (Azure) or m5n.large (AWS)
Database	<b>Option 1 (Recommended):</b> Azure SQL – 6 vCores, 40GB memory <b>Option 2:</b> Standard D4as_v5 (Azure) or mzn.xlarge (AWS) + SQL Server Web license 4 x Premium SSD LRS (128 GB, 128 GB, 64 GB, 256 GB) or AWS RDS equivalent
SMTP Server	<i>VM deployments only:</i> 1x Standard D2as_v4, 1 x Premium SSD LRS (128 GB)

### 50k to 100k Employees

Firewall / Load Balancing	1x Regional WAF (Application Gateway)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S3 w/Scale out 4 instances <b>Option 2:</b> 4x Standard _D2_v5 (Azure) or m5n.large (AWS)
Database	<b>Option 1 (Recommended):</b> Azure SQL – 6 vCores, 32GB memory <b>Option 2:</b> Standard D4as_v5 (Azure) or mzn.xlarge (AWS) + SQL Server Web license 4 x Premium SSD LRS (256 GB, 256 GB, 64 GB, 512 GB) or AWS RDS equivalent
SMTP Server	<i>VM deployments only:</i> 1x Standard D2as_v4, 1 x Premium SSD LRS (128 GB)

### 100k – 200k Employees

Firewall / Load Balancing	1x Regional WAF (Application Gateway)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S3 w/Scale out 6 instances <b>Option 2:</b> 4-5x Standard _D2_v5 (Azure) or m5n.large (AWS)
Database	<b>Option 1 (Recommended):</b> Azure SQL – 8 vCores, 60GB memory <b>Option 2:</b> Standard D4as_v5 (Azure) or mzn.xlarge (AWS) + SQL Server Web license 4 x Premium SSD LRS (256 GB, 256 GB, 64 GB, 512 GB) or AWS RDS equivalent
SMTP Server	<i>VM deployments only:</i> 1x Standard D2as_v4, 1 x Premium SSD LRS (128 GB)

### 200k+ Employees

Firewall / Load Balancing	1x Regional WAF (Application Gateway)
Application Servers	<b>Option 1 (Recommended):</b> Std App Service Plan S3 w/Scale out 10 instances <b>Option 2:</b> 6x Standard _D2_v5 (Azure) or m5n.large (AWS)
Database	<b>Option 1 (Recommended):</b> Azure SQL – 12 vCores, 80GB memory <b>Option 2:</b> Standard D4as_v5 (Azure) or mzn.xlarge (AWS) + SQL Server Web license 4 x Premium SSD LRS (512 GB, 512 GB, 128 GB, 1 TB) or AWS RDS equivalent
SMTP Server	<i>VM deployments only:</i> 1x Standard D2as_v4, 1 x Premium SSD LRS (256GB)

---

**PoliteMail**