



Hardware and Software Requirements

MARKET MAKER DEPLOYMENT REQUIREMENTS

Market Maker

OVERVIEW

MarketMaker deployment setup requires two instances - one machine for MarketMaker and second one for Monitoring. Deployment is performed remotely via SSH.

Please grant SSH (port 22) access to for IP addresses below (for both servers):

VPN EPAM RU	185.44.13.36
VPN EPAM BY	86.57.255.94
VPN BOSTON	96.230.80.30

Monitoring and MarketMaker servers must be in the same **VPC** and **Subnet**.

MARKET MAKER ENV

MarketMaker requires CentOS 7 machine with minimum 8 CPU and 32Gb RAM.

Type	m5.2xlarge
Disk size	256 Gb
AWS ami	CentOS Linux 7 x86_64 HVM EBS ENA
User	centos

The services below should be available for MarketMaker operator (I.e. via internet)

MarketMaker Web	8990
Universe Configurator	8995
Ember Monitor	8988
TimeBase Web Administrator	8099
TimeBase	8011

Also ports below should be opened for Monitoring instance (I.e. for Private IP)

Monitoring	9100	8081	9091	8099
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MONITORING ENV

Monitoring requires CentOS 7 machine with minimum 4 CPU and 16Gb RAM.

Type	r5.large
Disk size	256 Gb
AWS ami	CentOS Linux 7 x86_64 HVM EBS ENA
User	centos

The following monitoring services below should be available for MarketMaker operator (I.e. via internet)

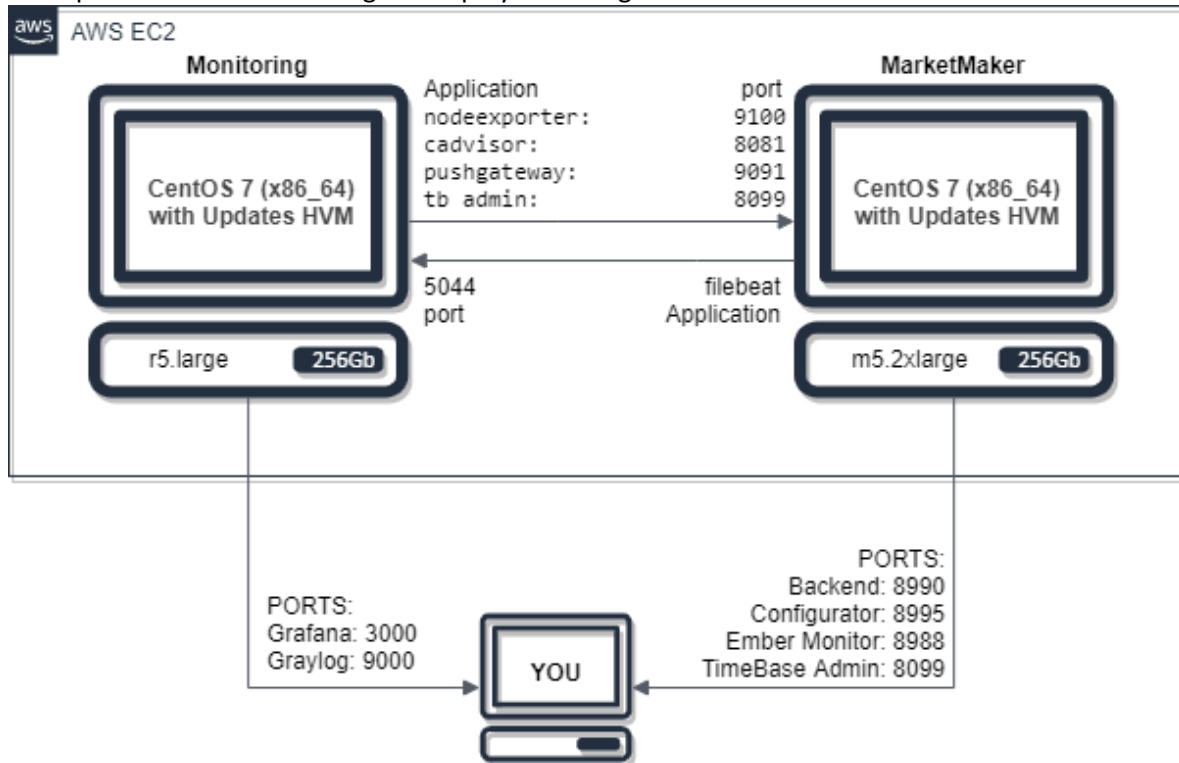
Grafana	9000
Graylog	3000

Ports below should be opened for MarketMaker instance (I.e. for Private IP)

MarketMaker	5044
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DEPLOYMENT DIAGRAM

Principal C2 MarketMaker diagram deployment diagram:



RECOMMENDATIONS

AWS Instance Location

We recommend choosing AWS region closer to your target exchanges.

Below the average ping time from N.Virginia region to the popular exchanges:

exchange	ms	exchange	ms	exchange	ms	exchange	ms
Coinbase	0.8	Binance	0.5	Bittrex	0.7	Gemini	1.0
KuCoin	0.5	Poloniex	0.8			Bitmart	0.7
		Quoine	0.8	Bitfinex	0.7	Bitstamp	0.7
Bitpanda	0.7	Binance JEX	0.8	FalconX	0.8	Huobi	0.7
BitMEX	72.6	Kraken	0.7			Deribit	74.3
ErisX	0.5	Bitbank	0.4	ItBit/Paxos	0.7	OKEx	0.8

HTTPS Access

The standard deployment does not provide HTTPS access to MarketMaker services out of the box. We recommend use AWS **Application Load Balancer** as SSL termination for MarketMaker services.

Useful Links

- [Amazon EC2 Pricing](#)
- [How to create EC2 Instance](#)