Prepare YugabyteDB Anywhere for Cloud Provider

The prerequisites for your installation depend on the types of provider configuration you will use to deploy database clusters.

This checklist is for creating a provider configuration that uses a public cloud provider to deploy clusters.

Disclaimer: this checklist

- Covers most common deployment cases, but doesn't include some more complex scenarios (e.g., YBA deployed into one kind of infra, but DB clusters deployed into another)
- Is not fully comprehensive (e.g., it doesn't cover all the pre-reqs for setting up Backup, nor for setting up Encryption at Rest)

See the documentation for complete instructions.

Cloud provider checklist

You are planning to use a cloud provider configuration (on AWS, GCP, or Azure).

Section 1: Cloud Permissions

How will you grant cloud permissions to YBA (so that it can create and provision VMs for database clusters)?

[ ] Provisioned a VM with the appropriate [**AWS** - IAM role | **Azure** - Managed Identity]

-OR-

[ ] Created a Service Account in your cloud provider with the required roles / privileges.

[ ] AWS

Access key ID _____

Secret Access Key _____

[ ] GCP

[ ] I have the Service Account credentials JSON file

[ ] (Optional) Shared VPC Project ID _____

(Specify Project ID to use a Shared VPC to connect resources from multiple projects to a common VPC)

[ ] Azure

Client ID _____

Client Secret _____

Resource Group _____

Subscription ID _____

Tenant ID _____

Section 2: Networking

Provide the required network connectivity, with all required network ports. [Networking]

[ ] Between DB cluster VMs

[ ] Between the YBA VM(s) and the DB cluster VMs

[ ] Between YBA VM(s) and external services
(for backup, Identity Provider authentication, export of logs or metrics, etc)

[ ] Between DB cluster VM(s) and external services
(for clients, applications, backup, etc)

AWS

What are the AWS VPC ID, and security group IDs for each region that you'll be deploying a DB Cluster into, and what are the subnet names per zone?

Region 1

VPC ID _____

Security Group ID _____

Subnet ID(s) per Zone _____, _____, _____

Region 2 (If multi-region)

VPC ID _____

Security Group ID _____

Subnet ID(s) per Zone _____, _____, _____

Region 3 (If multi-region)

VPC ID _____

Security Group ID _____

Subnet ID(s) per Zone _____, _____, _____

Azure

What are the Azure Virtual Network Names and Security Group Names for each region that you'll be deploying a DB Cluster into, and what are the subnet names per zone?

Region 1

Virtual Network Name _____

(Optional) Network Security Group Name _____

Subnet Name per Zone _____, _____, _____

Region 2 (If multi-region)

Virtual Network Name _____

(Optional) Network Security Group Name _____

Subnet Name per Zone _____, _____, _____

Region 3 (If multi-region)

Virtual Network Name _____

(Optional) Network Security Group Name _____

Subnet Name per Zone _____, _____, _____

GCP

What are the subnet IDs for each region that you'll be deploying a DB Cluster into?

VPC name _____

Region 1

Subnet ID _____

Region 2 (If multi-region)

Subnet ID _____

Region 3 (If multi-region)

Subnet ID _____

Section 3: Server for YBA

You need a VM to host YBA.

- [ ] Deployed VM that meets the CPU architecture, # of cores, memory, disk size, and OS prerequisites for YBA
- [ ] Installed Python 3.8-3.11 (or, for v2.25.1 and later 3.10-3.12)
- [ ] Sudo root access on the VM, so that you can install YBA in production mode
- [ ] Have the YBA license file provided to you by YugabyteDB
- [ ] If you plan to deploy YBA High Availability mode, provisioned a second identical VM for the passive YBA instance

If you have fulfilled these requirements, you are now ready to install YugabyteDB Anywhere on the server.

Section 4: Servers for DB cluster nodes

For database cluster VMs

- [ ] Use a default (YBA-managed) Linux OS (and disk image)

  -OR-

- [ ] Specify a custom Linux OS (and disk image)

[ ] Image uses a supported Linux OS

[ ] Created SSH-enabled, root-privileged user

SSH username _____

SSH Private Key Content / PEM file _____

[ ] Pre-installed *Additional software*

If VMs lack access to the public Internet

[ ] Pre-installed *Additional software for airgapped deployment*

Disk image IDs (also known as machine image IDs) for your custom disk image

AWS - one AMI ID per region _____, _____, _____

GCP | Azure - Global machine image ID _____

SSH Keys

When YBA creates the VMs, it configures SSH.

You can allow YBA to generate and manage keys, or provide your own custom SSH keys.

[ ] YBA-managed

-OR-

[ ] Created custom SSH Keys and they are available for upload