Installing AtScale

The following sections describe how to install the AtScale Helm chart.

Prerequisites

Before you can install AtScale, you must meet the following requirements:

- ▲ A Kubernetes cluster that meets the requirements described in System Requirements.
- ▲ Helm 3+ installed.
- ▲ A TLS certificate. This is required even if you do not enable TLS for AtScale. The certificate can be self-signed and does not need to be valid.
- ▲ RBAC authentication enabled on your cluster and cluster permissions configured, as described in Configuring Cluster Permissions.

Create A Values Override File

Before installing AtScale, you need to create a file containing any configuration settings that are specific to your system.

AtScale's configuration settings are defined in the `values.yml` file included in its Helm chart. If you need to change any settings from the defaults, you must create a new YAML file that contains only those settings and their new values. When you run the installer, the values defined in this file override the ones defined in `values.yml`.

> 📄 **Note:** Save your values override file after installing AtScale, as you may need it to update your configuration later. For more information, see Upgrading AtScale.

For a first-time install, AtScale recommends creating an override file with the following settings.

```
global:
  ingressDomain: subdomain.domain.com

  atscale:
    # Set the certificate for TLS deployment.
    # For deployment, include the certificate and key in base64 format.
    tls:
      # If you have a secret which you've created manually, define it here.
      # !Important: Defining existingSecret will override the tlsCrt and tlsKey
      existingSecret: ""
      tlsCrt: ""
      tlsKey: ""
```

The following table describes the recommended override settings.

Setting	Description
`ingressDomain`	The ingress domain for the AtScale cluster. If you enable TLS, this should be the same as the domain defined in your certificate (see `tlsCrt` below).
`existingSecret`	Your manually-created TLS secret, if available. This needs to be of type `kubernetes.io/tls`. For more information, refer to the Kubernetes documentation. **Note:** Providing an `existingSecret` overrides any values specified for `tlsCrt` and `tlsKey`.
`tlsCrt`	The base64 encoded value of your TLS certificate file.
`tlsKey`	The base64 encoded value of your TLS certificate key.

Install AtScale

Once you have any necessary configuration defined, you can install AtScale. Open a terminal window and run the following:

```
helm install atscale oci://docker.io/atscaleinc/atscale --version <version> -f <override_file>
```

Where `<version>` is the version of AtScale to install (for example, 2024.1.1), and `<override_file>` is the values override file you created above.

Configure Your DNS

After installing AtScale, you must configure your DNS. This will require either the IP address or hostname of the `atscale` service.

To obtain this information, open a terminal window and run the following command:

```
kubectl get service -n atscale kong-proxy
```

You can then use the returned value to create either an A record (if the value is an IP address) or a CNAME record (if the value is a hostname).

Next Steps

Once you have AtScale up and running, you should do the following:

- ▲ Add data warehouses
- ▲ Add and configure users
- ▲ Connect AtScale to Git