Private or offline installation

Domino provides bundles of offline installation media for use when running the `fleetcommand-agent` without Internet access to upstream sources of images and charts. To serve these resources, you must have a Docker registry accessible to your cluster.

Downloading

You can find URLs of available offline installation bundles in the `fleetcommand-agent` release notes. These bundles can be downloaded via cURL with basic authentication. Contact your domino account team for credentials.

Note that there is one file required: a versioned collection of images.

Example download:

```
curl -u username:password -#SfLOJ https://mirrors.domino.tech/s3/domino-artifacts/offline/opsless-v31-docker-images-4.
```

Extracting and loading

The images bundle is a `.tar` archive that must be extracted before being used.

```
tar -xvf fleetcommand-agent-docker-images-v31-4.2.0.tar
```

In the `fleetcommand-agent-docker-images` bundle there will be:

- a collection of individual Docker image `.tar` files
- a `images.json` metadata file
- a `domino-load-images.py` script

`domino-load-images.py` is a script to ingest the `images.json` metadata file and load the associated Docker images for a specific Domino version into the given remote Docker registry.

To load images into your private registry, run `domino-load-images.py` and pass in the URL of your registry as an argument. The script expects to run in the same directory as the `images.json` metadata file and the `.tar` image files.

Example:

```
python domino-load-images.py your-registry-url.domain:port
```

Once images have been loaded into your private registry you're ready to install Domino.

Installing

To install Domino using a custom registry, the image references must be modified to reference the upstream registry. Use the `--image-registry` argument on the `init` command to modify all image references to the external registry.

```
docker run --rm -v $(pwd):/install quay.io/domino/fleetcommand-agent:v31 \
init --image-registry your-registry-url.domain:port --full --file /install/domino.yml
```

If your registry requires authentication, ensure the `private_docker_registry` section of your installer configuration is filled in with the correct credentials:

```
private_docker_registry:
  server: your-registry-url.domain:port
  username: '<username>'
  password: '<password>'
```

Helm 3

Charts come pre packaged within the `fleetcommand-agent` image. Set up the `helm` object in configuration to match the following:

```
helm:
  version: 3
  host: gcr.io
  namespace: domino-eng-service-artifacts
  prefix: ''
  username: ''
  password: ''
  tiller_image: gcr.io/kubernetes-helm/tiller:v2.16.1 # Version is required and MUST be 2.16.1
  insecure: false
  cache_path: '/app/charts'
```

Note that the `http` protocol before the hostname in this configuration is important. Once these changes have been made to your installer configuration file, you can run the `fleetcommand-agent` to install Domino.

Configuration

When performing offline installations there are 3 main central configuration keys that need to be repointed to the private registry hosting the referenced images. From the Domino landing page, click **Admin** in the main menu. Then in the administration portal, click **Advanced > Central Config**. Use the **Add Record** button at top right to add the following records:

Key	Value
`com.cerebro.domino.builder.image`	`IMAGE_URI` of the latest **domino/builder-job**
`com.cerebro.domino.computegrid.kubernetes.executor.imageName`	`IMAGE_URI` of the latest **domino/executor**
`com.cerebro.domino.modelmanager.harnessProxy.image`	`IMAGE_URI` of the latest **domino/harness-proxy**

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