

Project Skyline

An open sourced UI for the Triton DataCenter cloud management platform

Problem Statement

Currently, there is not a free and open source user interface available for Triton DataCenter that is consumer facing. The only interface that is available for Triton DataCenter is for the company that owns the physical server that the Triton DataCenter software is running on. The issue with this is that for a consumer to set up or modify a virtual machine they pay for (or wish to) is to get in contact with the company that owns the server and have them make the change.

Goal

Create open source UI for Triton DataCenter to enable anyone to setup and manage their own VMs.

Challenges

The biggest challenge we encountered was interacting with Triton DataCenter. We were originally going to use Triton's CloudAPI; however, because it uses ssh keys to authenticate to Triton DataCenter, we decided to interact directly with the services that run the data center software. Another challenge we faced was using React with Redux as the frontend framework. None of us were familiar with React so it was a struggle to build pages in the beginning.

Project Description

Skyline is an open sourced user interface for Triton DataCenter that allows users to log in, manage their account, and create/update/maintain their virtual machines without interacting with the Triton DataCenter AdminUI.

Group Members



Matt Osbourne



Spencer Dangel



Alec Reser

Advisor: Patrick Olekas

Project Components

API / Backend

The backend is created using Node JS with TypeScript.

Database

User data and VM preferences will be stored in a MYSQL database.

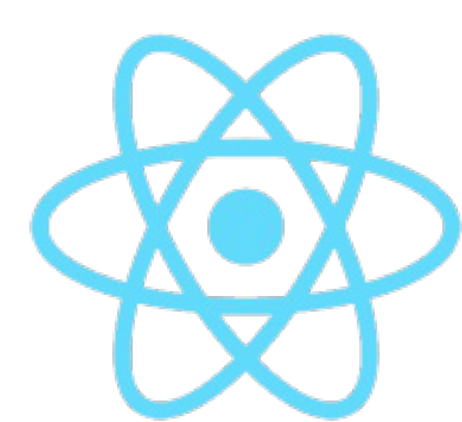
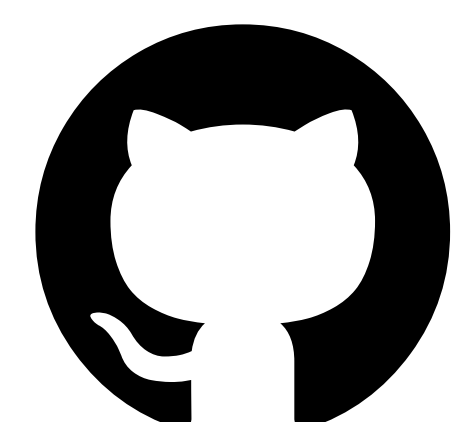
Client / Frontend

The frontend is made using React JS and Redux.

Automated Testing

We used Jest as our backend testing framework for running unit and integration tests.

Technologies



React



Redux

TypeScript

