Ula Hsieh (Yi-Ju, Hsieh)

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Experience

Wistron Information Technology & Services Corporation
Jun 2022 – Present

Senior Software Engineer

- Help Wistron Cloud Operation Model (Kubernetes) operation, and improve the working process by IaC tool like Ansible and Terraform
- Attend the Wistron Cloud Operation Portal scrum team as a Node.js backend engineer
- Using Golang to develop vSphere virtual machine provisioning application.
- Attend Wistron Microservice Academy as a trainer for distributed system maintenance and operation

NEXCOM Co, LTD
Sep 2018 –Jun 2022

Engineer

- Develop NexMASA Data Platform. The involved technologies are Hadoop, Kafka, MongoDB, MySQL Cluster and Ansible…
- Maintain a Node-red based industrial IoT software IoT Studio which is programmed in Node.js
- Maintain and co-develop Key Management Server which is programmed in Golang

EDOM Technology Co, LTD
Jul 2016 - Sep 2017

Sales Engineer

- Product Promotion (Cypress, STMicroelectronics, Conexant…) and customer demand creation, the main promotion markets are consumer or automotive electronics, industry and agriculture, etc.
- Sales processes operations including projects tracking and customer relationship management.

Education

National Taiwan University of Science and Technology,
Sep 2012 - Jun 2016

Information Management

- 4 semesters scholarship (10101,10102,10201,10202)
- Université du Québec à Montréal exchange student
- Graduated project- Android app News Maps- Team Leader/ Award
- 16th ATCC- 50 of 300 Rematch

Skill and Certificates

Backend

- Linux
- Golang
- Node.js / TypeScript
- Database (MongoDB, MySQL)

DevOps

- Kubernetes, Docker
- Ansible
- Terraform
- Vagrant
- GitLab (GitLab CI/CD)

Certificate

- TOEIC 865
- Microsoft AZ-900: Microsoft Azure Fundamentals Certification

【About Me】

I'm Ula. I am a person who is curious, enjoys solving problems, and seeks challenges. I grew up in Chiayi. I have always demanded of myself to be down-to-earth on the path of education and career pursuit. I graduated from Information Management Department of National Taiwan University of Science and Technology and owned four semesters' scholarships at collage. I'd also been an exchange student in third grade to Canada University of Quebec in Montreal (UQAM) and experienced different cultures from various countries.

College is an important period for me. It deeply impacts me and shapes my personality.

【EDOM – Sales Engineer】

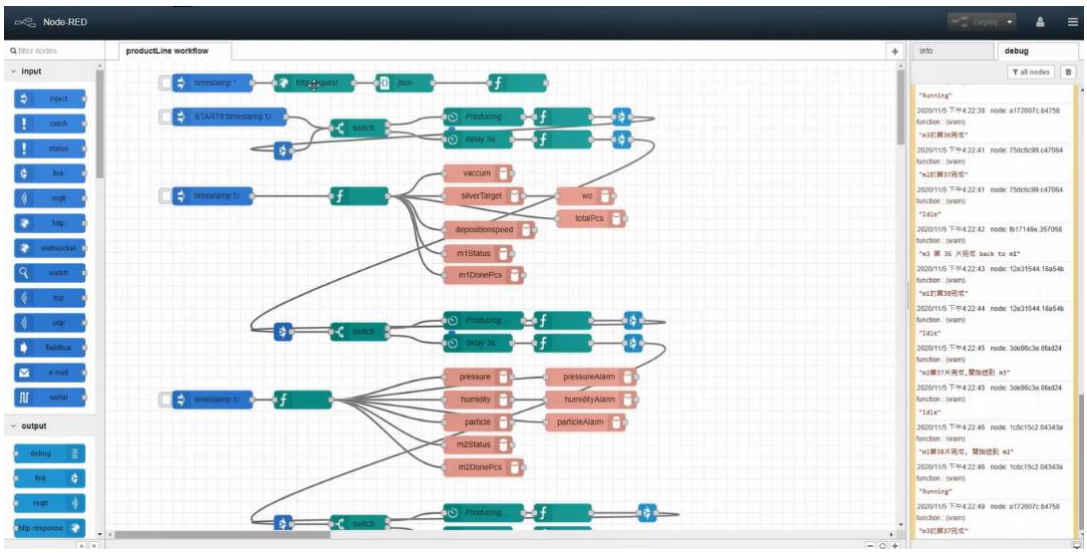
After the graduation, I choose to be a sales engineer in an agency of electronic industry. My department is product-oriented, mainly promoting ST's MCU, sensors and other products used in IoT fields. The customers are widely distributed, including the consumer electronics, industry, agriculture, etc. I was responsible for at least 20 customers in the same period. In this job, I learned how to manage time and effectively communicate among customers, PM and FAE.

【NEXCOM – Engineer】

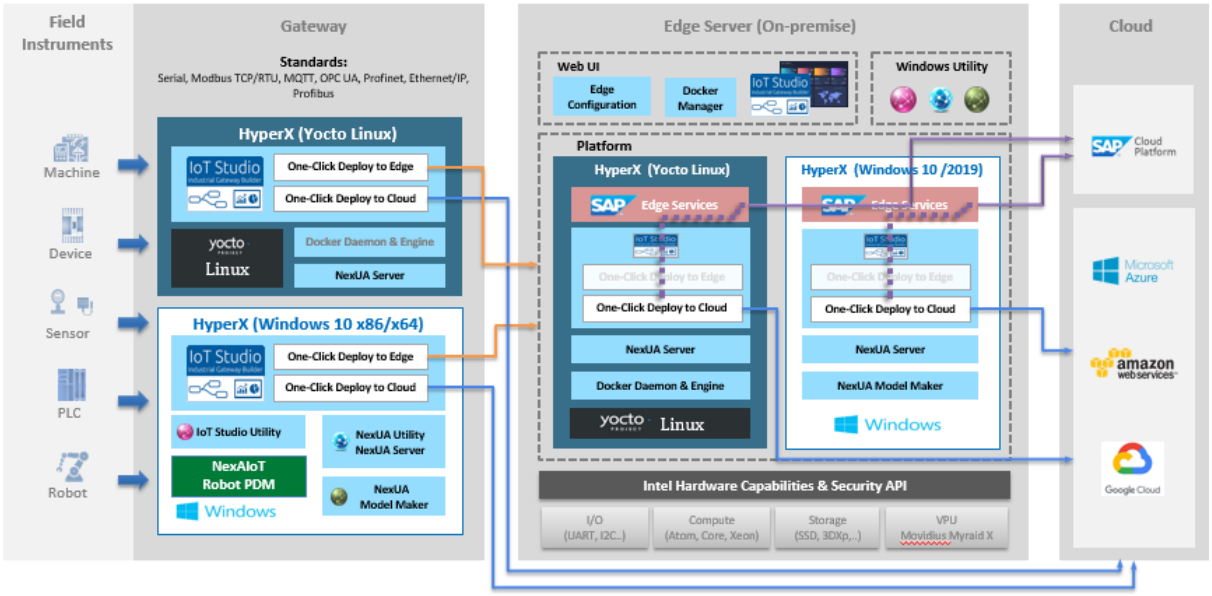
I transferred my career to engineering side. I was project engineer in the software development department. Here are the projects I'd participated in:

- **IoT Studio of HyperX**

  This software is embedded in the company's gateway and is built on IBM's open-source software, Node-Red. It incorporates custom node modules developed by our team and enables rapid integration of data from edge devices in the industrial IoT domain. I was responsible for specifications definition and the functional test, helping customers like Liteon and SAP to design the POC for them to design-in.

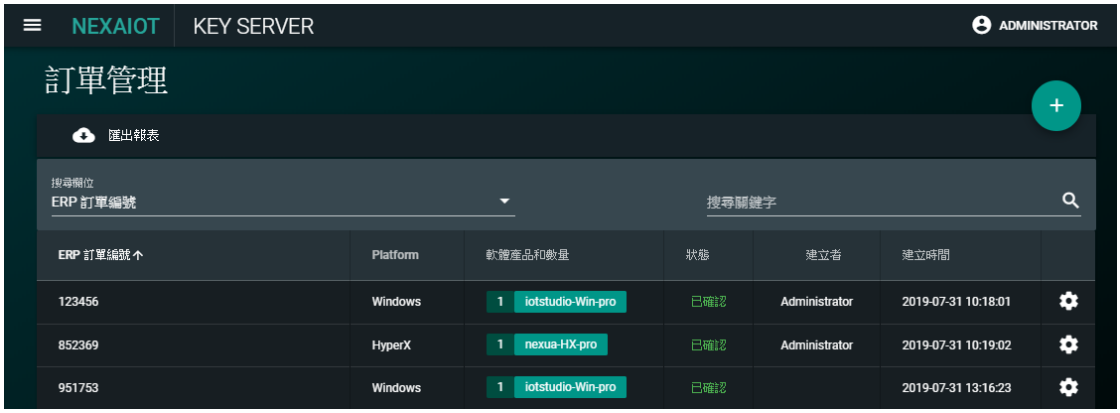


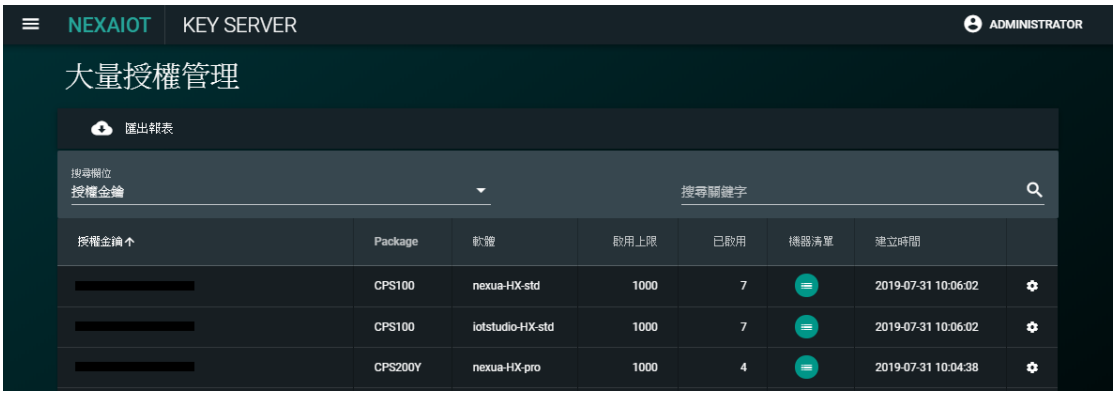
One-Click Deploy to Edge Server or Cloud



- **NexAIoT License Software Key Server**

  The system were programmed by Golang and used for managing the software license key of our department's commercial product. I was in charge of designing specification, doing the unit test and taking over the system maintenance. The web backend is developed using Golang, with the main API server implemented using the Gin framework and MySQL database. On the frontend side, Vue.js framework is adopted.

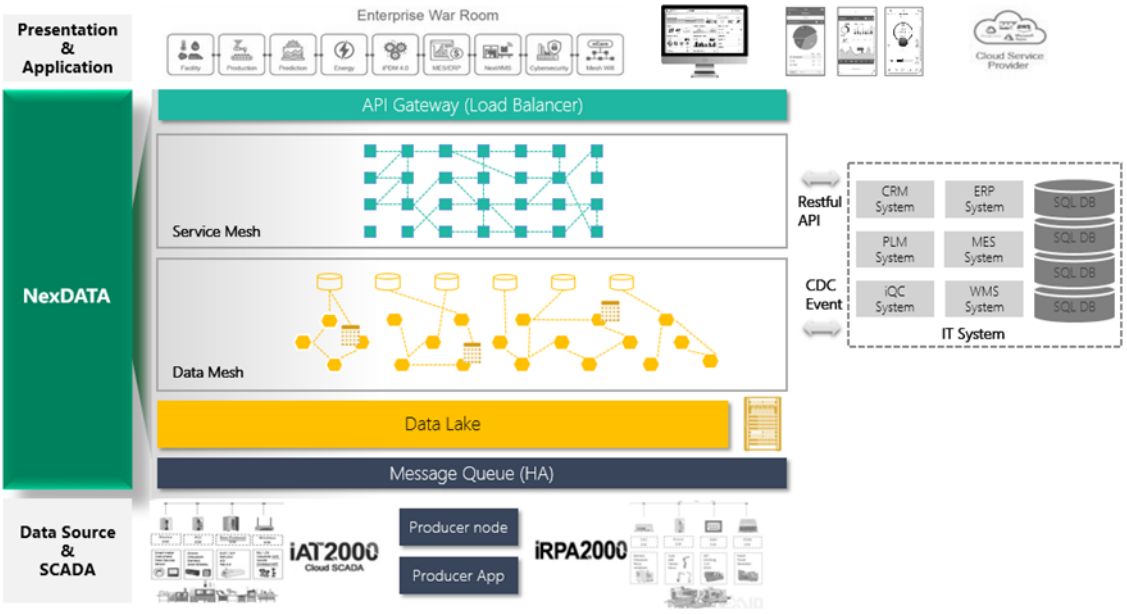




- **NexDATA Data Platform**

  I am the primary developer of this project. The project's target is to build a data platform to converge and analyze the big data including the local OT data to enterprise IT data of 4.0 industries. The platform is mainly operating on Kubernetes to ensure the HA. I am responsible for researching the

feasibility of DevOps technology adoption, assisting with Kubernetes operations, and developing microservices (API) using Golang for display in the factory war room.

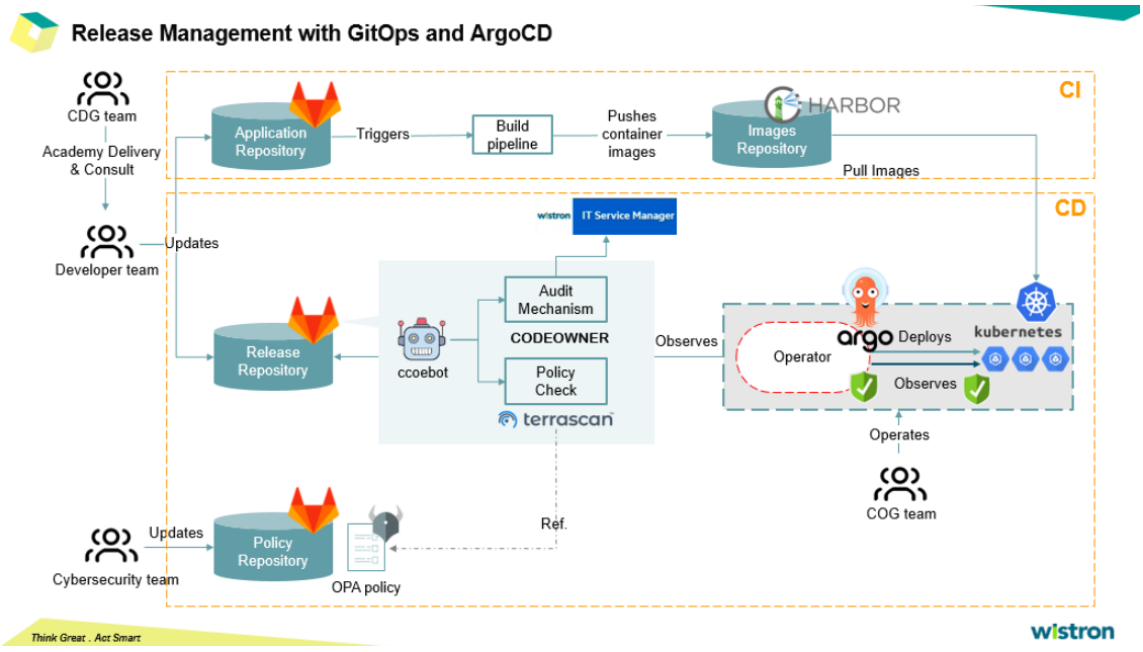


【WistronITS - Senior Software Engineer】

With the knowledge and experience accumulated from my previous job, I joined WistronITS and was stationed at Wistron as a Senior DevOps and Software Engineer. I have been primarily involved in the following projects:

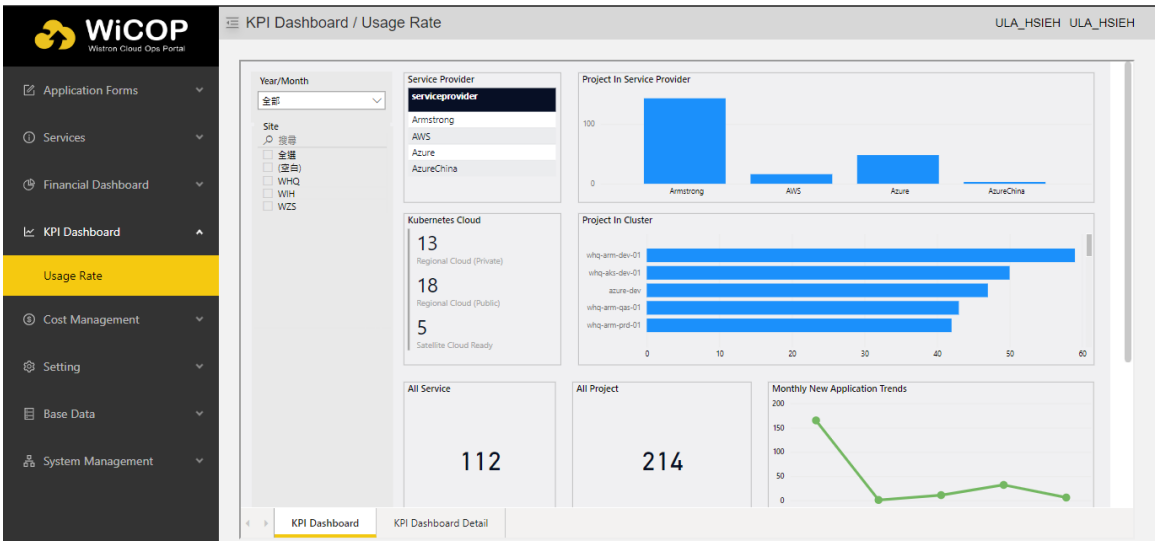
- **Wistron Cloud Operation Model Operator**

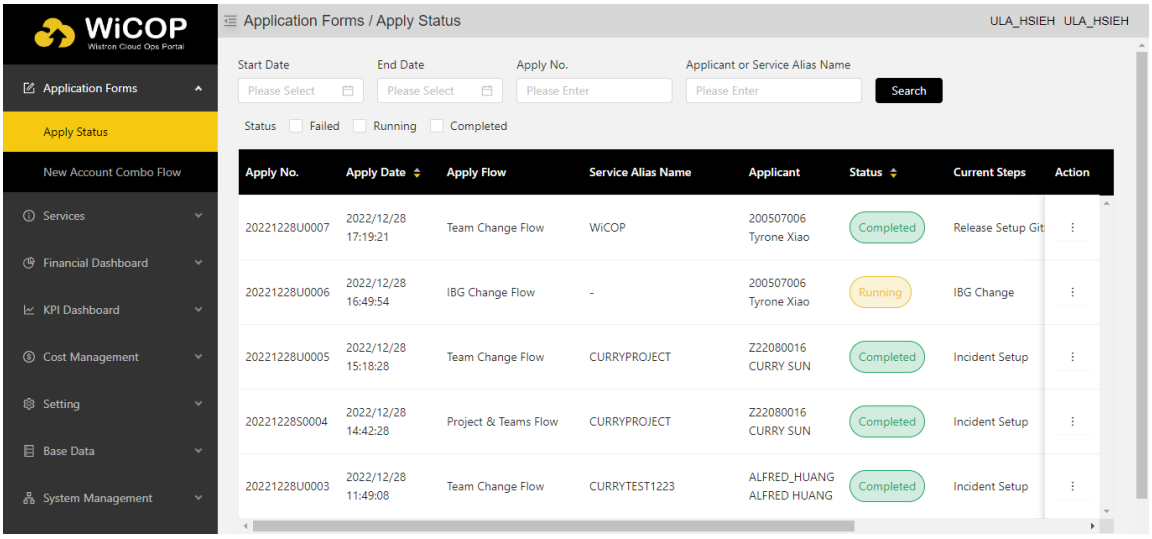
  Wistron has developed the Cloud Operation Model, which leverages the cloud native technologies. The model aims to unify the software deployment process and migrate all the system to out private cloud and public cloud (Azure). In my role as a Site Reliability Engineer, I have been responsible for Kubernetes Cluster operation and observability. I have also automated the cloud operation processes using Infrastructure as Code (IaC) languages such as Terraform or Ansible. Additionally, I have been involved in the development and maintenance of a GitOps approval API server called ‘ccoebot’, which is written in Golang.



- **Wistron Cloud Operation Portal**

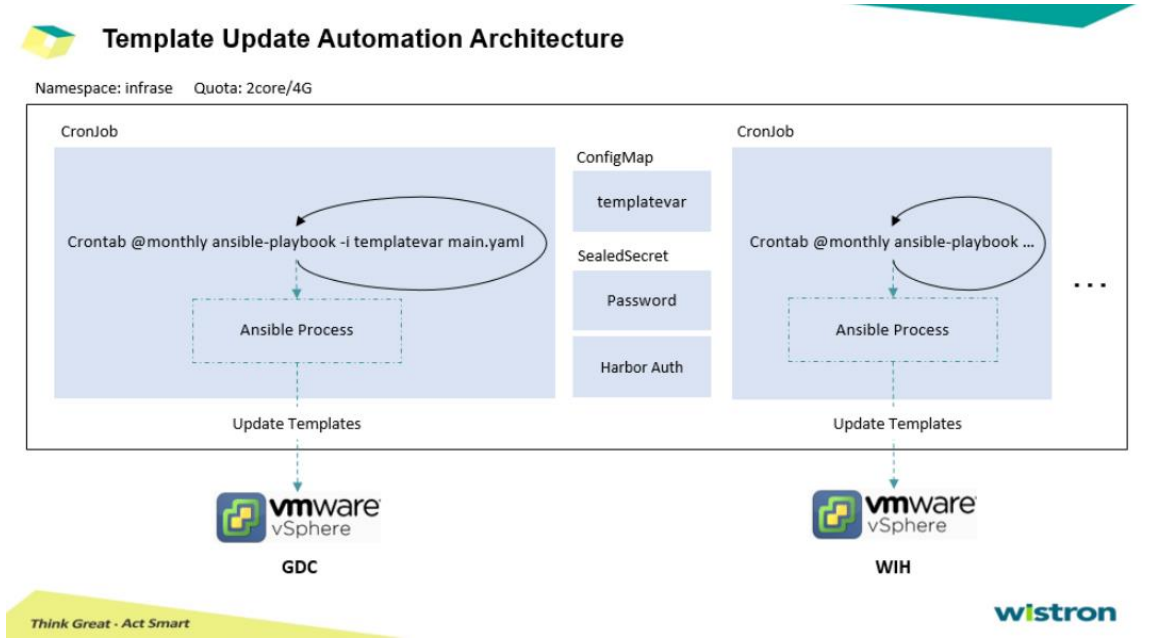
  I worked as a backend developer in the agile development team for WiCOP (Wistron Cloud Operation Portal) web application. It integrates the scattered application processes from various information systems and provides a centralized platform for automated cloud environment provisioning. The API server is built using the LoopBack framework, combined with CronJobs for periodic backend tasks such as retrieving data from cloud platforms and interacting with internal information systems.

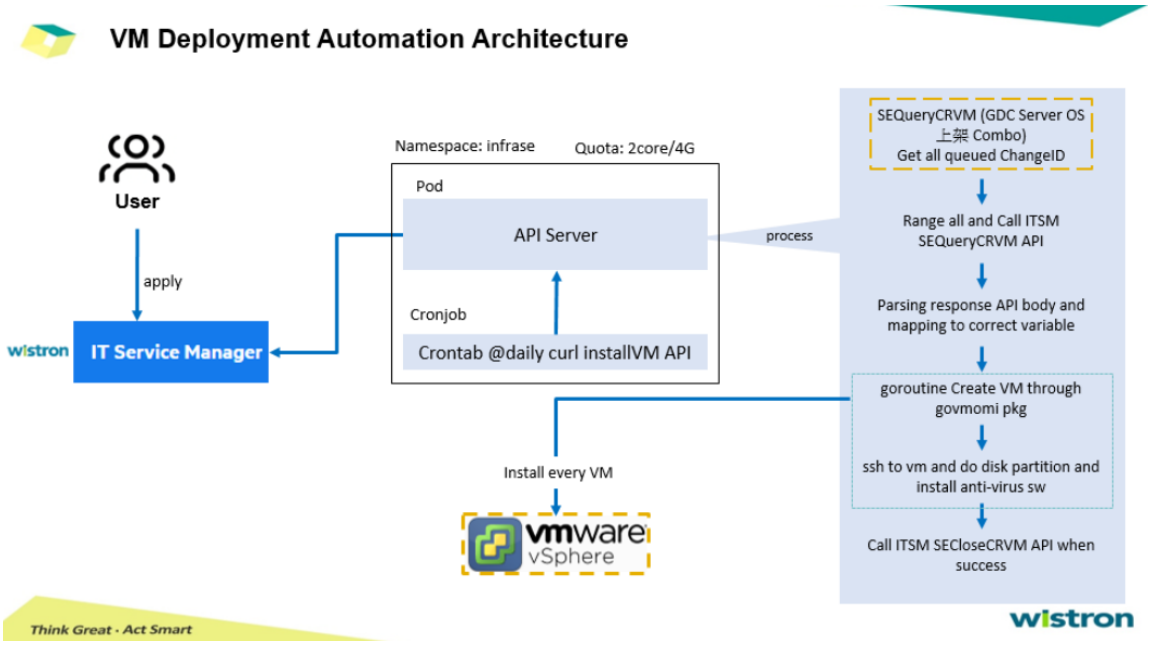




- **Wistron Infra VM Provisioning**

  The goal of this project was to automate the deployment of VMs that were previously manually provisioned by system engineers in vSphere. I was fully responsible for the development. The project utilized two technologies: firstly, Ansible automation scripts were used to automate system updates on VM templates. Secondly, Golang with the Gin API server and govmomi module were used to integrate vSphere and the company's information systems. This allowed for end-to-end automation of the VM provisioning process, from user request to automatic VM installation.





【Summary and future expectations】

In summary, the skill that I learned the most in these three periods is the ability of communication and problem solving. I hope I can continue learning more knowledge and improving myself in all aspects, and face every work with enthusiasm in the future.