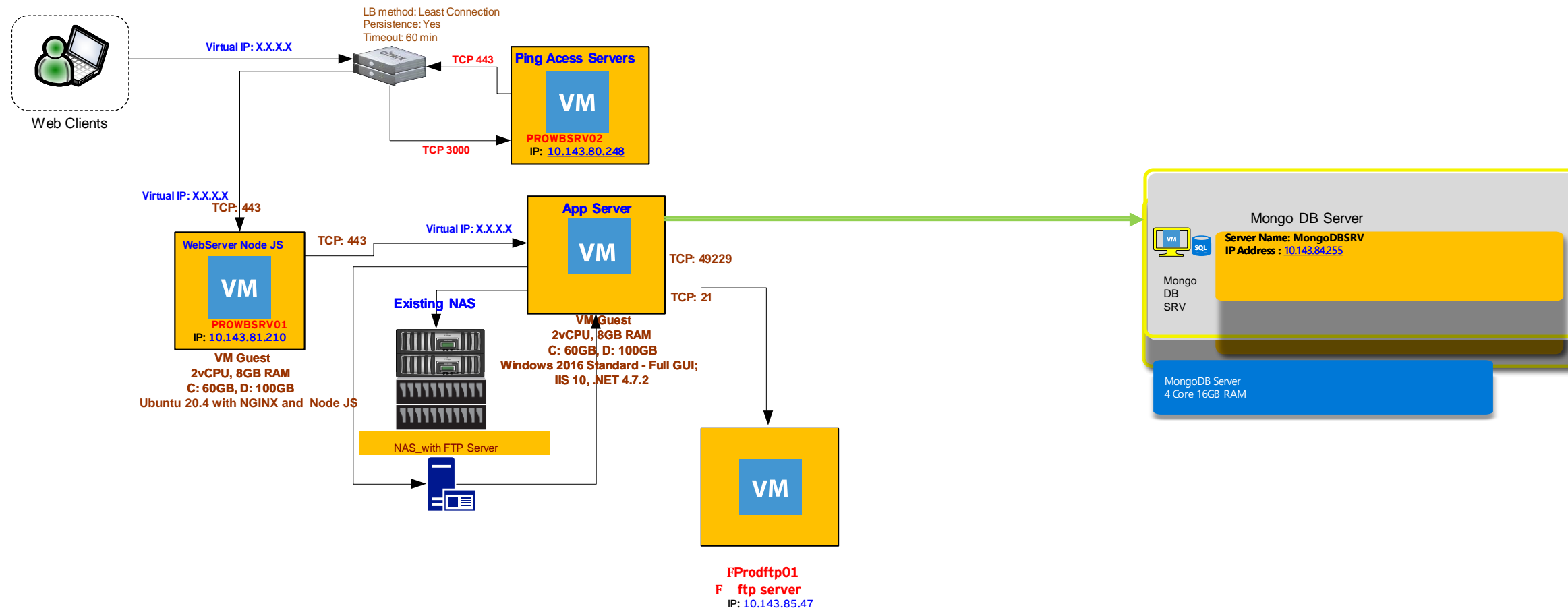
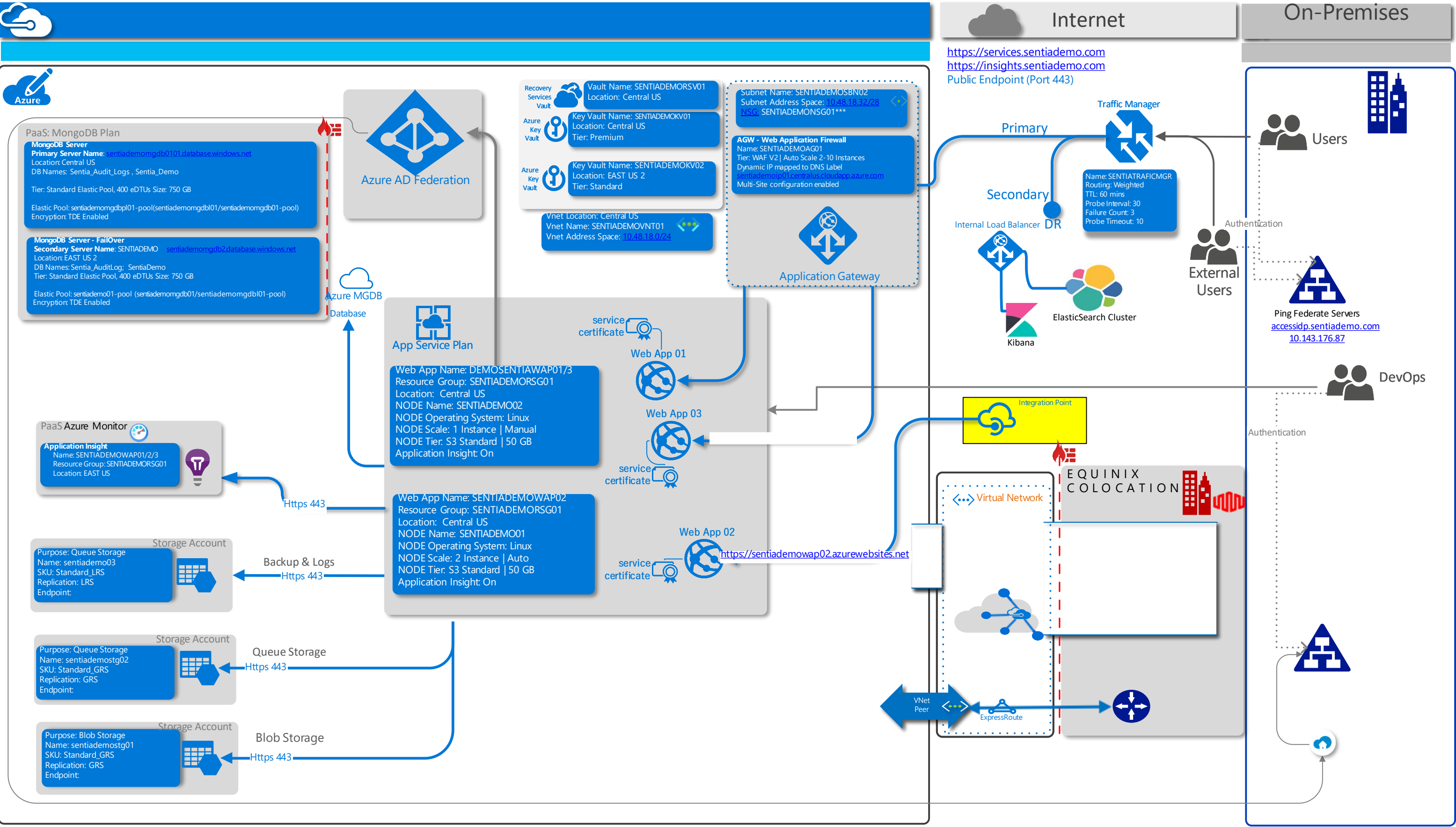


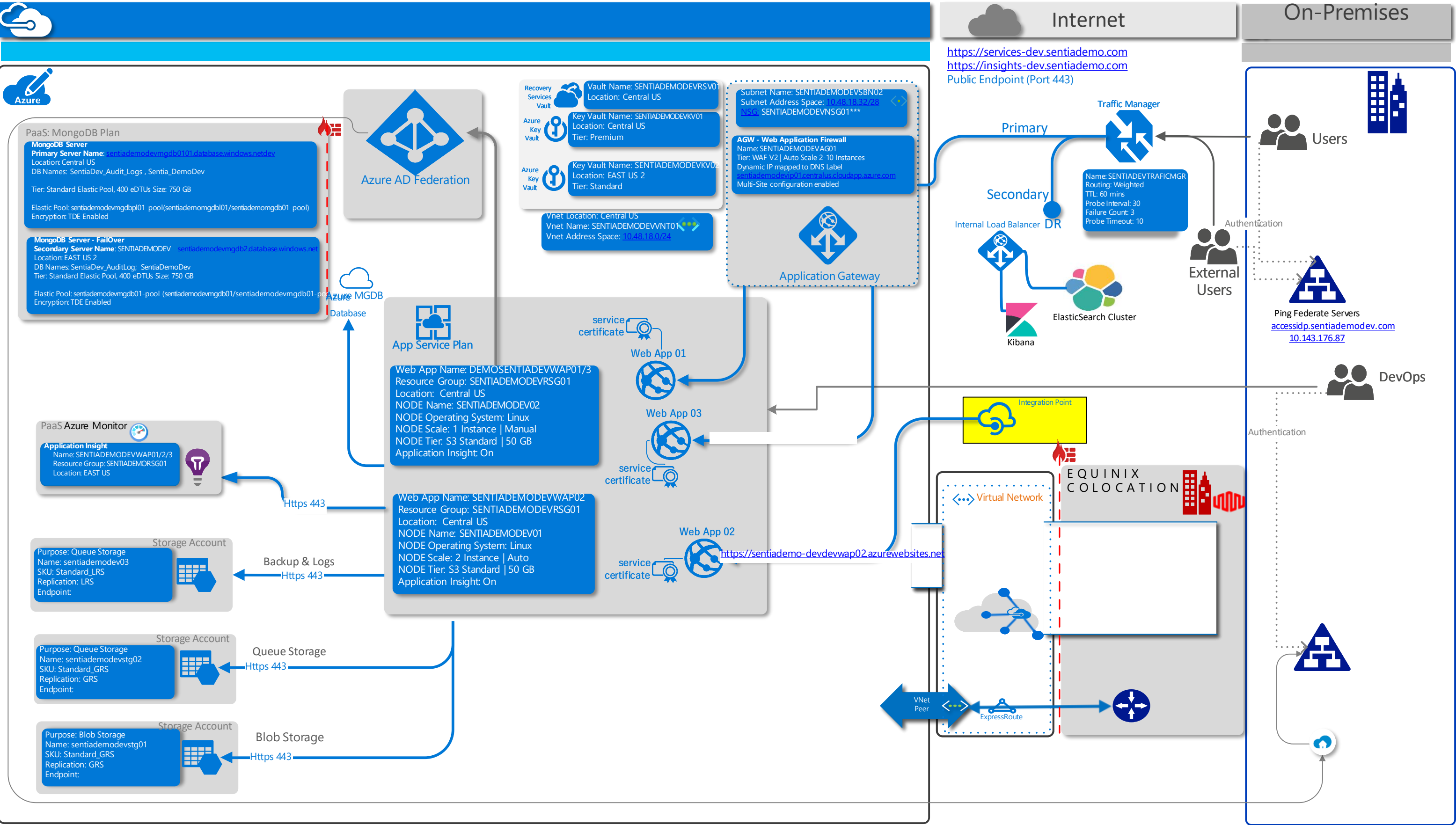
Production Environment



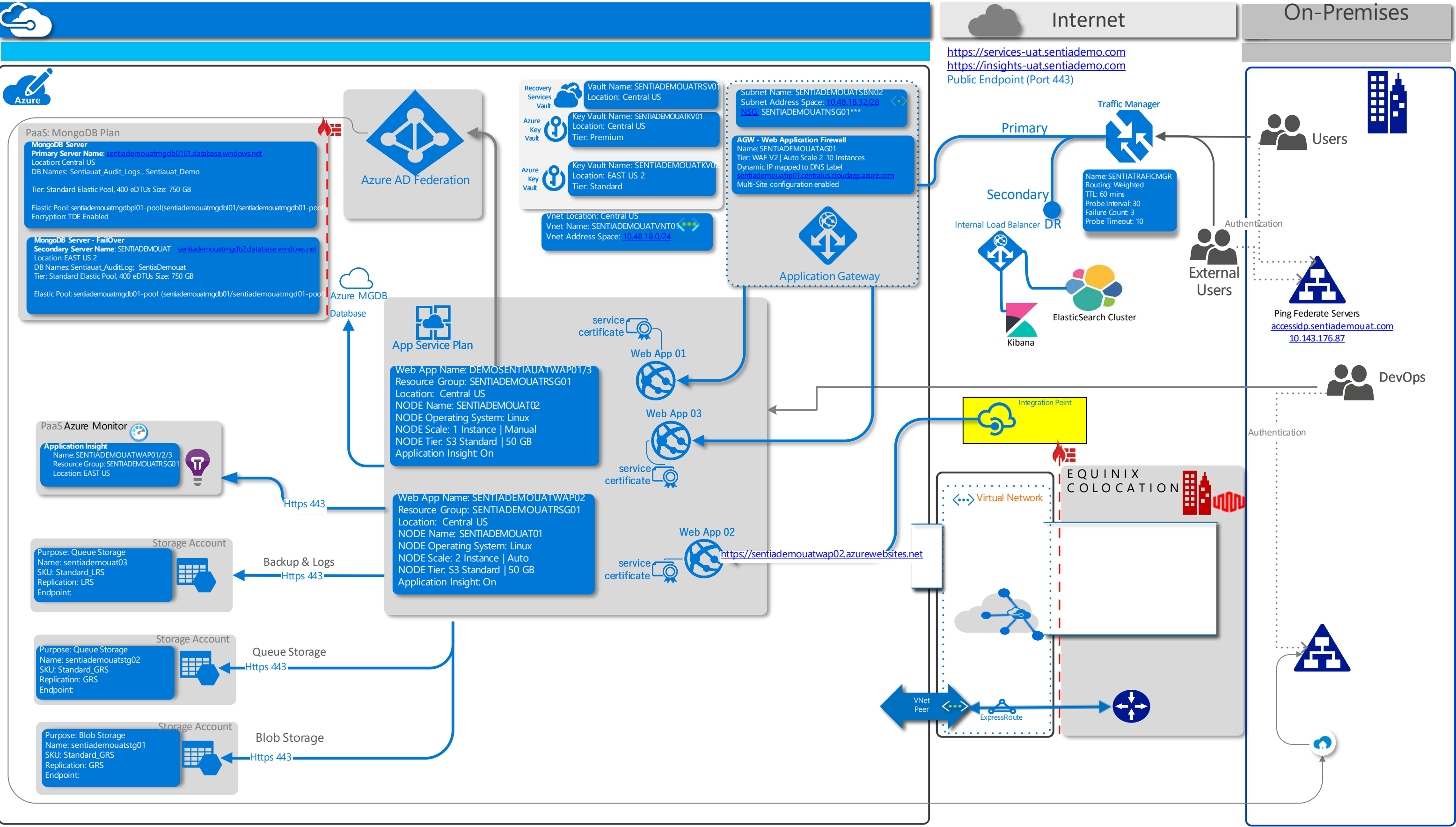
Title: US Production 1.0 Architecture



Title: US DEV 1.0 Architecture



Title: US UAT 1.0 Architecture



Architectural Desicions

From the architectural point of view this application count with the next design:

- Security:

- ✓ Integration with PING system for SSO and authentication login for users from different companies.
- ✓ Equinix Colocation with and Express route for integration between on prem and cloud infrastructure
- ✓ Implementation of and Azure Application Gateway WAF v2 for Intrusion detection and prevention and with Scale set for future grow.
- ✓ Deployment of a key vault to save in a secure way Passwords , Certificates SPNs and all the sensitive data.
- ✓ Azure AD federation to easy integrate the on-prem active directory with Azure AD.

-WebApps

- ✓ To solve the WebApp requests was deployed and Azure WebApp plan with and application gateway V2 to balance and scale up all the request that the app receive. The WEBAPPS nodes are based on NodeJs Version14 to afford all the webapps requests.
- ✓ 3 Webapps were created in this case 2 of the webapps will receive all the HTTPS request and the third WebApp will be for API request.
- ✓ All the webapps counts with its own Application Insight to control and troubleshooting all the problems that can appear in the operation of the webapps

- Log analytics and Alerts

- ✓ Was deployed and storage account to save all the logs and the analytics information for the deployment of all the system logs and the deployment of all the KPIs for reports.
- ✓ A SendGrid email system was deployed to email alerts for all the customers.
- ✓ Was deployed also and storage account to save all the blob storage and in this case that the information can be access over https in place of FTP.
- ✓ 3 storages accounts were created: One for save all the information from the application insights , another storage account for queue storage and the last one for logs and backups.

- MongoDB

- ✓ A MongoDB Paas was deployed to allocate all the no-schema data and noSQL , integrate all the large amounts of diverse data and JSON and BSON files.
- ✓ A MonDB Paas for failover was created to act as HA in case that the main database goes down or need maintenance or upgrades.

- Elastic search and Kibana

- ✓ And elastic search plan was deployed with and internal load balancer to balance the requests to the elastic search infrastructure and kibana dashboard for access to all the deployed dashboards.