



# Cloud Native On Premise

## SUMMARY

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The client faced a unique challenge where their edge locations were diverging from the cloud due to the differences in how software is deployed and how it performs. With 60 manufacturing sites and X number of "metro" sites, the client understood the need to modernize their applications to be "cloud native." They wanted to use containers with Kubernetes as an orchestration platform to achieve this. The client's Container as a Service team (CaaS) thus used Rancher (RKE2) as a proof of concept for on-prem and EKS for the cloud.

## SOLUTION

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EKS-A was selected as the solution to bridge the gap between the client's "on-prem" and cloud-based operations. Its benefits included easy IAM integration with the client's existing systems and easy provisioning models for Nutanix and HPE SimpliVity (vSphere). EKS-A also has clear installation models for both the hardware and software components within the client's environment. Additionally, EKS-A handles much of the VM creation/management, making it easier to buy for the organization.

## RESULTS

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The client saw significant cost savings by switching from EKS to EKS-A. EKS-A enabled the client to use their existing hardware and focus on developing their software instead of spending resources on managing their infrastructure. Also, EKS-A used Cluster API to manage the EKS clusters, allowing their CaaS team to use Cluster API everywhere.

## EXPERTISE

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Our team demonstrated our expertise in EKS by helping the client modernize their edge locations and integrate them with the cloud-based systems. Additionally, our experience in using EKS-A proved critical in enabling the client's operations to transition seamlessly to a cloud-native architecture. By utilizing EKS-A, we were able to deliver the client a solution that was optimized for their business needs, providing them with the flexibility to move applications from on-prem to the cloud. We helped the client achieve these critical objectives while reducing cost and improving performance by leveraging EKS and EKS-A technologies.