

# R6 Installation Document of IEC Type 5: Composable Integrated Edge Cloud (IEC) Server Blueprint Family

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## Introduction

Since DPU is PCIe-compatible device, we can further combine DPU and PCIe Networking together. In R6, we introduce a hardware layer or physical link /fabric layer between the DPU and the CPUs as below. With this layer, we extend the DPU cluster size and also use the DPU management features as well.

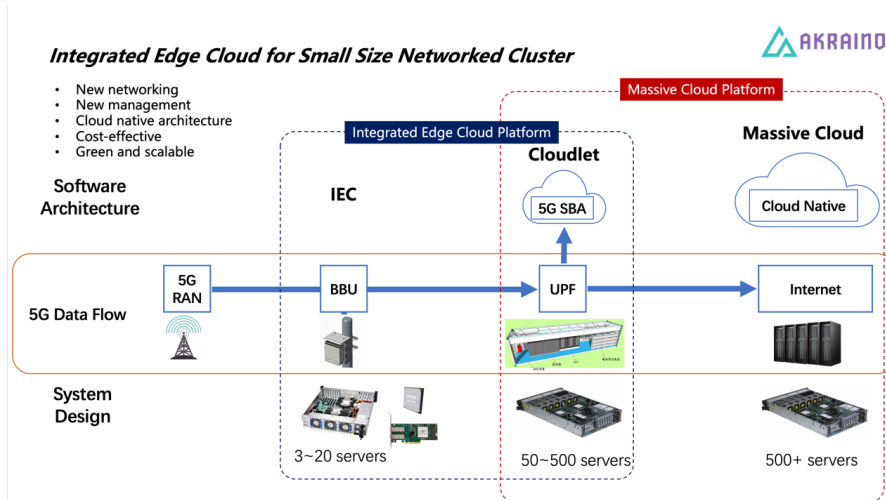
## License

N/A

## How to use this document

this document is used to guide how to install the necessary software with the server.

## Deployment Architecture



## Pre-Installation Requirements

### 1. Hardware Requirements

- Hardware Requirements

3xarm64 server:

<b>Arch</b>	AARCH64
<b>Processor model</b>	1 x processor, each 24 x A53 cores
<b>RAM</b>	32GB DDR4-2400 ECC
<b>Storage</b>	10*2.5 inch SAS/SATA/SSD or 8*2.5 inch NVMe SSD
<b>XPU Fabric</b>	1x16GbE20GT/s) PCIe Net
<b>Network</b>	2x1GbE port (RJ45)
<b>Power Supply</b>	15watts (100~240V AC240V DC)
<b>Scale</b>	420 mm x 240 mm x 86.1 mm

ARM Server satisfies the Arm Server Ready certified.

### 2. Recommended Hardware Requirements

N/A

### 3. Software Prerequisites

item	comments	method
os	centos7	N/A
docker	N/A	apt-get install <a href="https://docs.docker.com/engine/install/debian/">docker.io</a>
swarm	N/A	docker pull swarm
portainer	N/A	docker pull portainer

## **4. Database Prerequisites**

N/A

## **5. Schema scripts**

N/A

## **6. Other Installation Requirements**

N/A

## **7. Jump Host Requirements**

N/A

## **8. Network Requirements**

N/A

## **9. Bare Metal Node Requirements**

N/A

## **10 Execution Requirements (Bare Metal Only)**

N/A

# **Bare Metal Deployment Guide**

## **1. Install Bare Metal Jump Host**

N/A

## **2. Creating a Node Inventory File**

N/A

## **3. Creating the Settings Files**

N/A

## **4. Running**

N/A

## **5. Virtual Deployment Guide**

N/A

## **6. Standard Deployment Overview**

N/A

## **7. Snapshot Deployment Overview**

N/A

## **8. Special Requirements for Virtual Deployments**

N/A

## **9. Install Jump Host**

N/A

## **10. Verifying the Setup - VMs**

N/A

## **11. Upstream Deployment Guide**

N/A

## **12. Upstream Deployment Key Features**

N/A

## **13. Special Requirements for Upstream Deployments**

N/A

## **14. Scenarios and Deploy Settings for Upstream Deployments**

N/A

## **15. Including Upstream Patches with Deployment**

N/A

## **16. Running**

N/A

## **17. Interacting with Containerized Overcloud**

N/A

## **18. Verifying the Setup as defined the Akraino validation feature project plus any additional testing specific to the blue print**

N/A

## **Developer Guide and Troubleshooting**

### **1. Utilization of Images**

N/A

### **2. Post-deployment Configuration**

N/A

### **3. Debugging Failures**

N/A

## **4. Reporting a Bug**

N/A

## **5. Uninstall Guide**

not applicable

# **Maintenance**

## **1. BluePrint Package Maintenance**

### **Software maintenance**

N/A

### **Hardware maintenance**

N/A

## **2. Blueprint Deployment Maintenance**

N/A

## **3. Frequently Asked Questions**

N/A

## **4. License**

N/A

## **5. References**

N/A