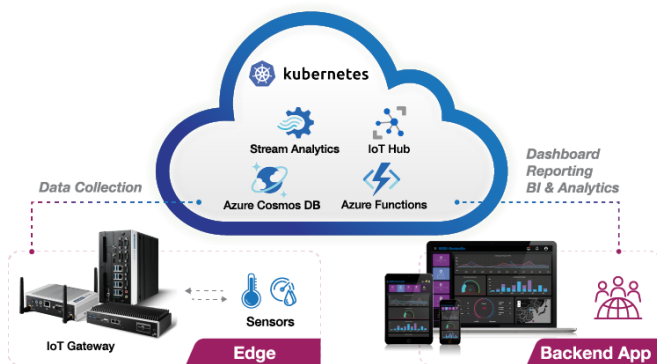


# DeviceOn for Azure

Advantech's WISE-DeviceOn for Azure solution simplifies enterprise IoT application deployment. Its secure cloud management service secures your emails and delivers flexibility, availability, and security to your applications. Likewise, it is adjustable at any time and adaptable to the needs of growing businesses.



## Delivers high availability and scalability to your IoT applications

Expedite POC verification and deploy IoT management platforms with linear scalability and high availability.

## Securely manage intelligent Edge and IoT peripheral solutions

WISE-DeviceOn comes preloaded with over 600 Advantech certified board and system models that help manage devices, data, and software.

## Minimize IoT solution TCO

Excellent device lifecycle management eases device onboarding, monitoring, and control. It enables users to troubleshoot problems and conduct OTA software updates until the device is retired.

## Improve operational efficiency

Empower day-to-day management by easing real-time monitoring, notifications, bulk management, and maintenance.

## Minimum System Requirements

### Supported devices:

- Windows 10/7 64-bit
- Ubuntu 18.04/20.04
- CentOS 7/7.5/8.2
- Android 6.0/8.0 RISC
- Yocto

### Web browsers:

- Google Chrome
- Mozilla Firefox
- Safari

Note: Cookies must be enabled. Browser must support HTTPS (SSL)

Note: Advantech certified devices with SUSI driver — required for hardware monitoring and control

### Deployment:

#### • Standard Edition

Minimum VM tier: D2sV4 (2 Cores 8GB memory)

#### • Enterprise Edition

Azure IoT Hub (S2)

Azure Stream Analytics (Std. 1 unit)

Event Hub (Basic, 1 million events)

Service Bus (Prem. 1 daily message unit)

Azure Database for PostgreSQL (5 GB storage)

Azure Cosmos DB (Standard, 200 GB transactional)

Virtual Machines (1 E2s, 2 vCPU 16 GB memory)

## Functional Specification

Function Description	Standard Edition	Enterprise Edition
<b>Deployment Options</b>	Single VM package ( <a href="#">Azure Marketplace</a> )	Integrated Azure PaaS services ( <a href="#">Azure Marketplace</a> )
<b>Max. Managed Devices</b>	Designed for private and small-scale 1,000/5,000 (2 VM tiers)	Designed to meet enterprise and high availability requirements Unlimited (Scale on Demand)
<b>Multi-OS Support</b>	The WISE-DeviceOn platform supports multiple types of edge devices and OS — including x86/RISC, Windows, Linux, Android, and RTOS.	
<b>Device and Data Security</b>	<ul style="list-style-type: none"> <li>• Role-Based Access Control (RBAC)</li> <li>• LDAP/AD</li> <li>• SSL encryption for               <ul style="list-style-type: none"> <li>HTTPS on DeviceOn Web Server</li> <li>REST API with time-limited secret token</li> <li>SSL Connection on database (PostgreSQL, MongoDB)</li> <li>Device connectivity via MQTT SSL</li> </ul> </li> </ul>	
<b>Device and Data Management</b>	<ul style="list-style-type: none"> <li>• Device and group management</li> <li>• Device threshold detection (Rule-based engine)</li> <li>• Real-time and historical data monitoring w/ zero-downtime</li> <li>• Notification and alert services (Mail/SMS/LINE/WeChat/Teams/Slack/Telegram)</li> </ul>	
<b>Software Management</b>	<ul style="list-style-type: none"> <li>• Software status monitoring,</li> <li>• OTA software updates, App store provisioning</li> <li>• BIOS updates (Advantech HW)</li> </ul>	
<b>Remote Control</b>	<ul style="list-style-type: none"> <li>• Power control (Advantech HW)</li> <li>• Remote troubleshooting (Terminal, Screenshot, Remote Desktop)</li> <li>• Backup/Recovery, Protection (Windows only)</li> <li>• Batch control and statistical analysis</li> <li>• Audio volume control (Win)</li> <li>• Hardware watchdog monitoring (Advantech HW)</li> <li>• Brightness and backlight Control (Advantech HW)</li> <li>• Hardware status monitoring (Advantech HW)</li> </ul>	
<b>Windows Lockdown</b>	<ul style="list-style-type: none"> <li>• USB drive block</li> <li>• Keyboard lock and filter</li> <li>• Touch screen and gesture lock</li> <li>• Windows notification block</li> <li>• UWF Protection</li> </ul> (All Lock down features for Win 10 Only)	

### Advantech Certified Devices

Advantech's WISE-DeviceOn comes preloaded with over 600 Advantech certified board and system models that deliver device, data, and software management. It facilitates diverse IoT management by offering free license support to certified devices.

For certified device information, visit:

<https://www.advantech.com/solutions/embedded-modules-and-design-in-services>