

TECH TALK

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### **House Rules**

Please post your Quiz responses here

Participants

Chat Share Screen

Polling

Q&A

Please post your questions here



# **Quiz Winners**

Balaji Nagarajan, Precision IT

Ramachandra Mithbavkar, Savex

**Dipak K, Creative Infotech** 

Sathish Narayanan, Savex

**Ankit Garg, SBI** 



### Mahesh Kumar G

Manager-System Engineering Aruba India

- 20+ Years of experience in Networking industry
- 12+ Years with HPE in various roles
- A technology enthusiast
- Customer-centric
- Open Networking evangelist
- Trusted advisor and a team player
- Happy to be of any assistance
- Reach me
  - mahesh-kumar.g@hpe.com
  - 9900328879
  - https://www.linkedin.com/in/maheshkg/







# TECH TALK

Aruba Solutions For Education Vertical

# DRIVING EXPERIENCES AT THE INTELLIGENT EDGE





## ARUBA EDGE SERVICES PLATFORM (ESP)

The foundation for digital transformation in Higher Education



Insights | User Insights



# UNIFIED INFRASTRUCTURE

Wi-Fi | Switching | SD-WAN | 5G | IOT



# ZERO TRUST SECURITY

Dynamic Segmentation | Device Insight



#### **Financial and Consumption Flexibility**

HPEFS | Managed Connectivity Services





# ARUBA WI-FI 6











Smart PoE

ARUBA 500 SERIES

Hostel Rooms Guest Rooms Remote AP ARUBA 510 SERIES

Corridors

ARUBA 530 SERIES

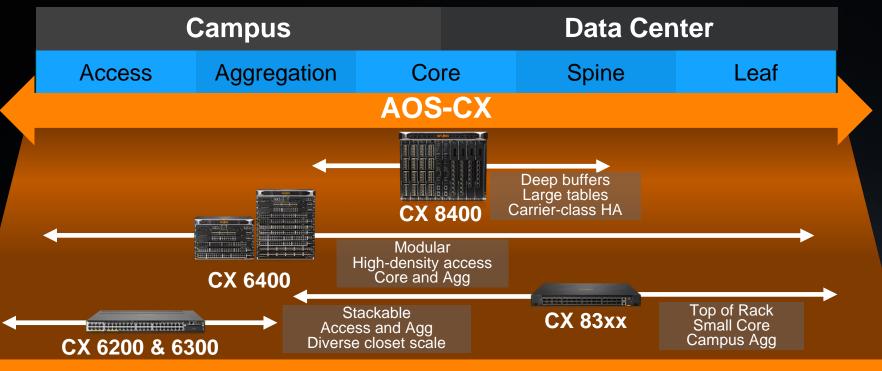
Class Rooms Labs ARUBA 550 SERIES

Auditoriums Seminar Halls ARUBA 560/570 SERIES

Play Ground Parking Lot

# ARUBA CX SWITCHING

#### **COMPLETE END-TO-END SWITCHING PORTFOLIO**



One Operating System. One ASIC Architecture. One Operating Model.





Main Campus or Cloud



#### **Headend Gateway**



Other colleges, distance learning centers



IAP-VPN
Small learning branch or remote staff offices



Extends university to the home



Windows

MAC

IOS

Android

Chromebook

Linux

VIA

Soft client for single devices

# INFRASTRUCTURE Bringing the Cloud

Experience to the Edge

Single architecture for Wi-Fi, Wired, WAN; campus, branch, data center and remote worker

Controller-less cloud-native operations at Enterprise scale





**UXI Sensor** 



Core/Aggregation



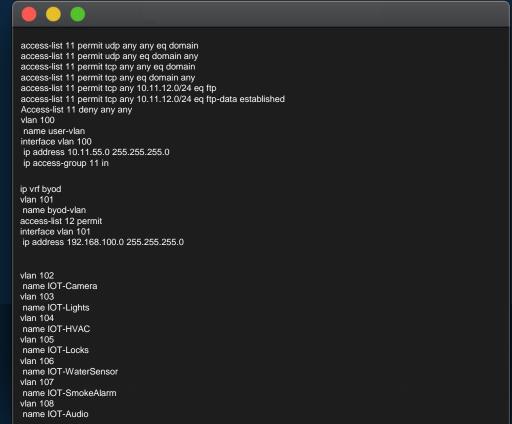




# SECURITY THREATS INCREASE NETWORK COMPLEXITY



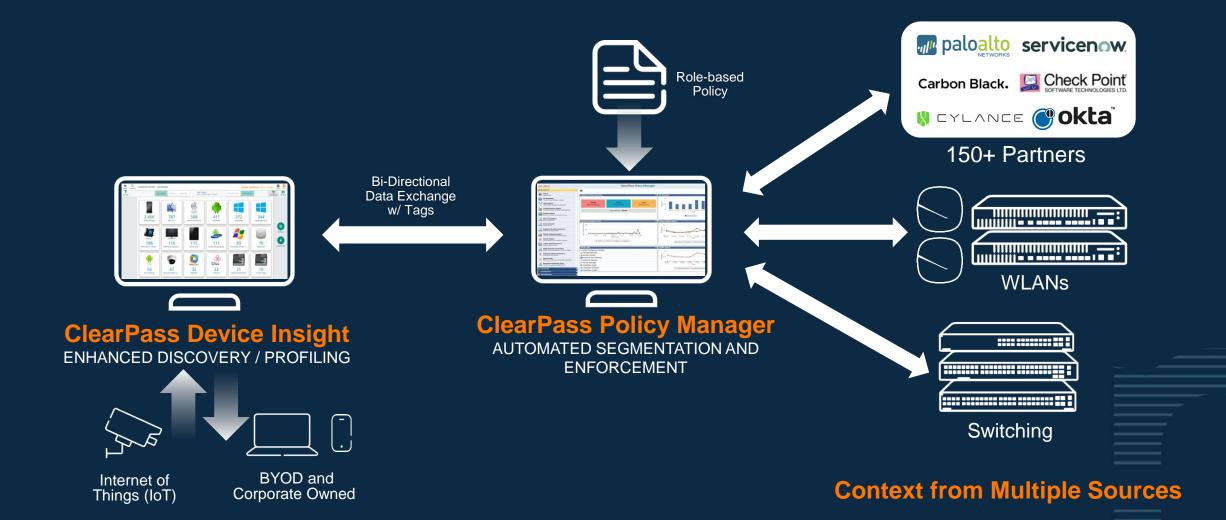
STUDENTS BYOD IOT



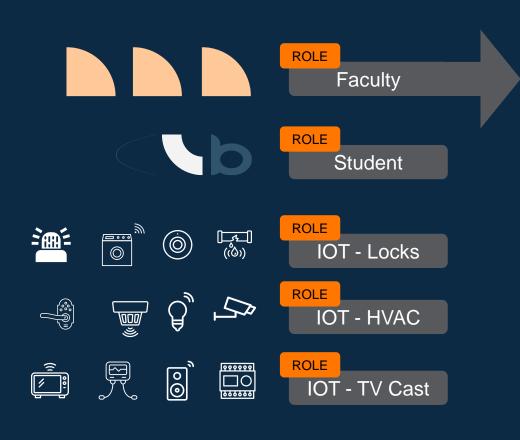
Complex hop-by-hop IP-based segmentation slows the deployment of new devices on the network

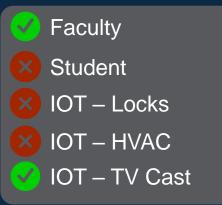
ACLs either become unmanageable or are nonexistent ultimately leading back to security struggles

# ZERO TRUST FRAMEWORK POLICY MANAGER



# ZERO TRUST FRAMEWORK PROTECTS AND SIMPLIFIES





#### **DYNAMIC SEGMENTATION**

Software defined approach eliminates VLAN sprawl and complex enforcement rules

Delivers wired and wireless micro-segmentation at a Campus or Branch to secure endpoints based on Role

Helps implement a Zero Trust Network

# ZERO TRUST SECURITY FOR EDUCATION

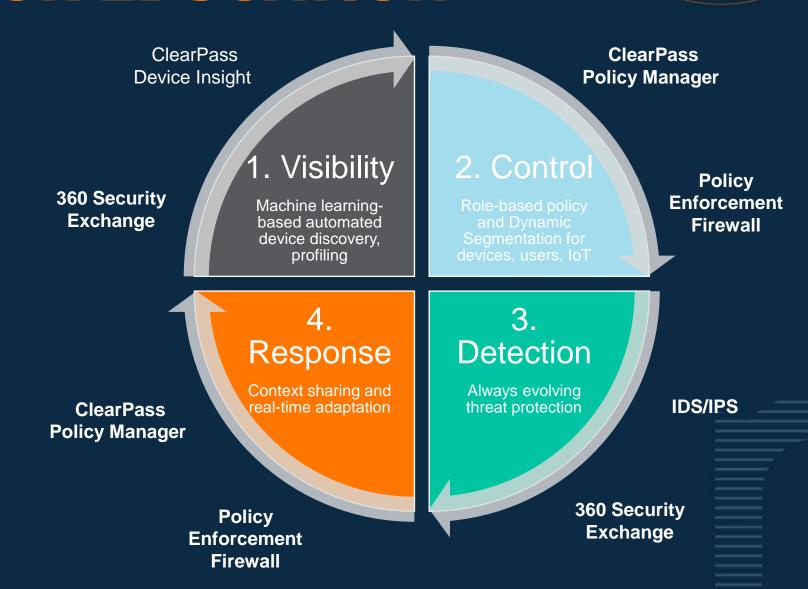


Provide secure guest Wi-Fi with automated segmentation

Ensure PCI compliance separate traffic

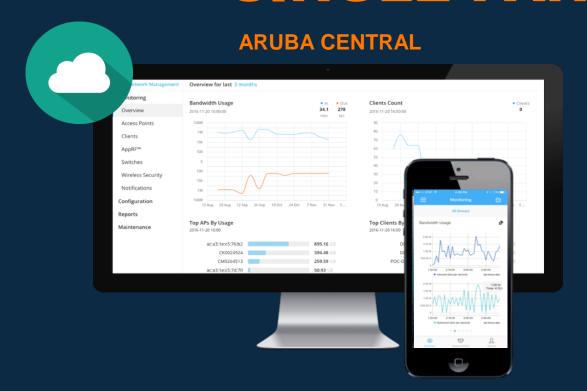
**Deploy new IoT devices** and automate policies

Adapt to potential threats on faculty/staff/student devices





# ARUBA ESP SINGLE PANE OF GLASS



#### **NETWORK INFRASTRUCTURE**







ACCESS POINTS

SWITCHES

BRANCH GATEWAY

#### **SERVICES**

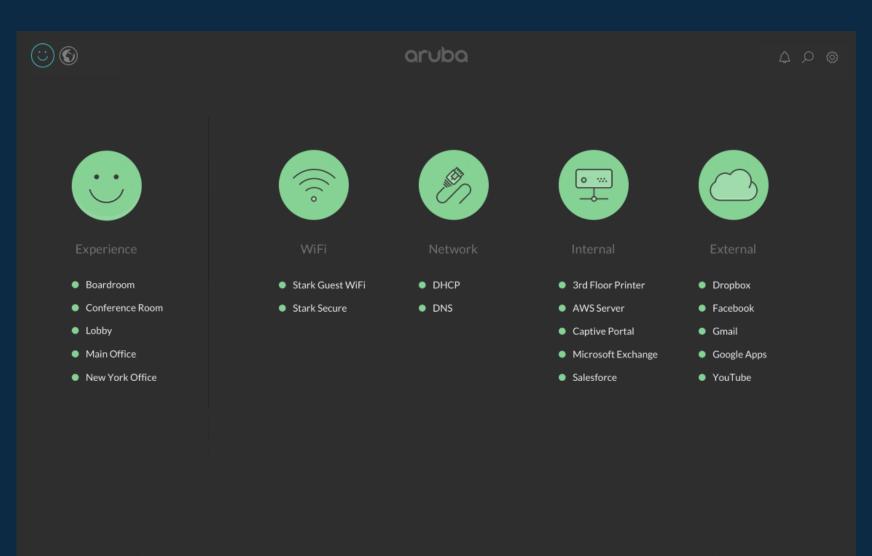
GUEST WI-FI NETWORK ANALYTICS PRESENCE ANALYTICS

SD-WAN

**SECURITY** 

VISIBILITY | CENTRALIZED MONITORING AND MANAGEMENT
SUBSCRIPTION LICENSE | SOFTWARE SUPPORT

# USER'S PERSPECTIVE USER EXPERIENCE INSIGHT





# ARUBA AI OPS FOR EDUCATION



Al Insights | User Insights

Understand user experiences by leveraging analytics

**Prioritize applications** 

like synchronous instruction

Roam the campus

with high-performing Wi-Fi

**Stay ahead of issues** 

For high stakes testing ensuring no downtime



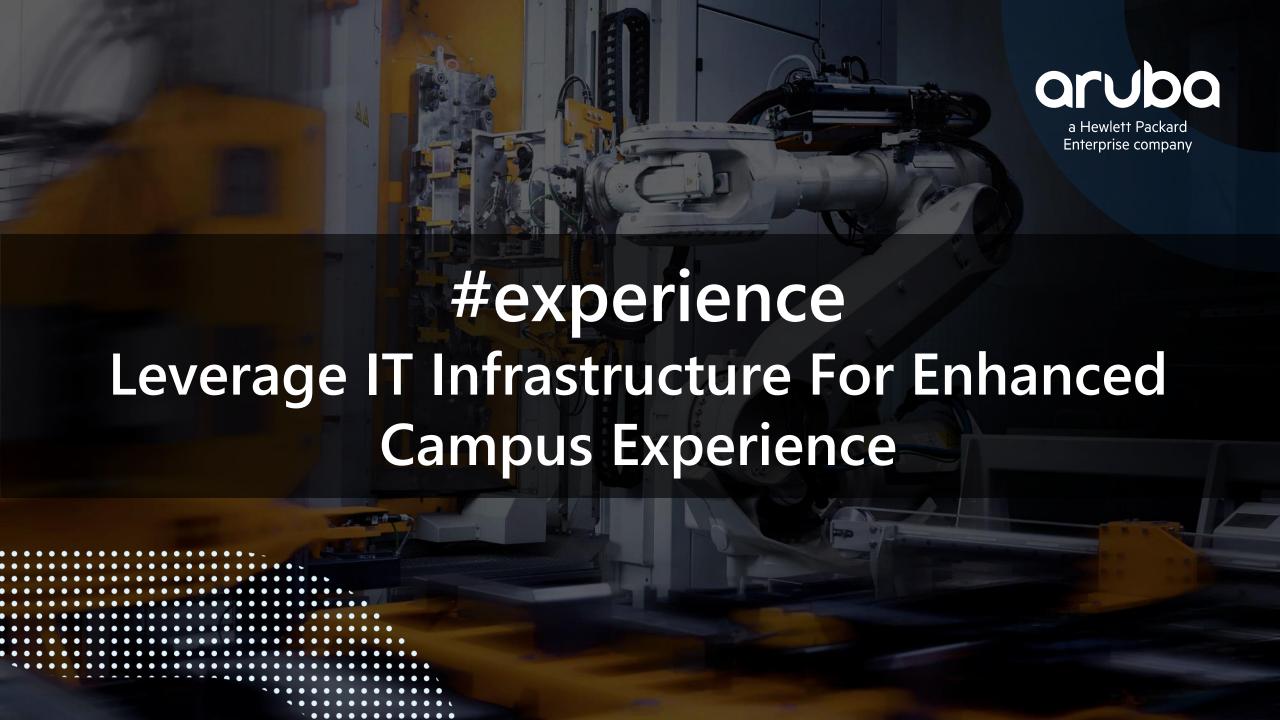
Predict and Preempt issues before they impact learning



React and Resolve Issues Quickly



Continuously Optimize to ensure SLAs are met



# ACCESS POINT AS IOT PLATFORM

#### Wi-Fi 6 | Bluetooth 5 | Zigbee Radio | Smart PoE





# MOBILE ENGAGEMENT TRACKING & LOCATION SERVICES



**Mobile App** 



AP & Tags



Aruba Meridian With SDK



Aruba **AP & Beacons** 



**Mobile App** 



# RETURN TO COLLEGE & UNIVERSITY

#### **PRIORITIES**

#### **Space Utilization**



 OPTIMIZED CLEANING
 DENSITY MONITORING FOR SHARED LOCATIONS

### **Proximity Alerts**



MOBILE APPBUILT ON MERIDIAN

### **Contact Tracing**



SHARED SPACESPATTERNS OF CONTACT

#### Wi-Fi and Aruba Central





#### BLE, Aruba Meridian, Ecosystem



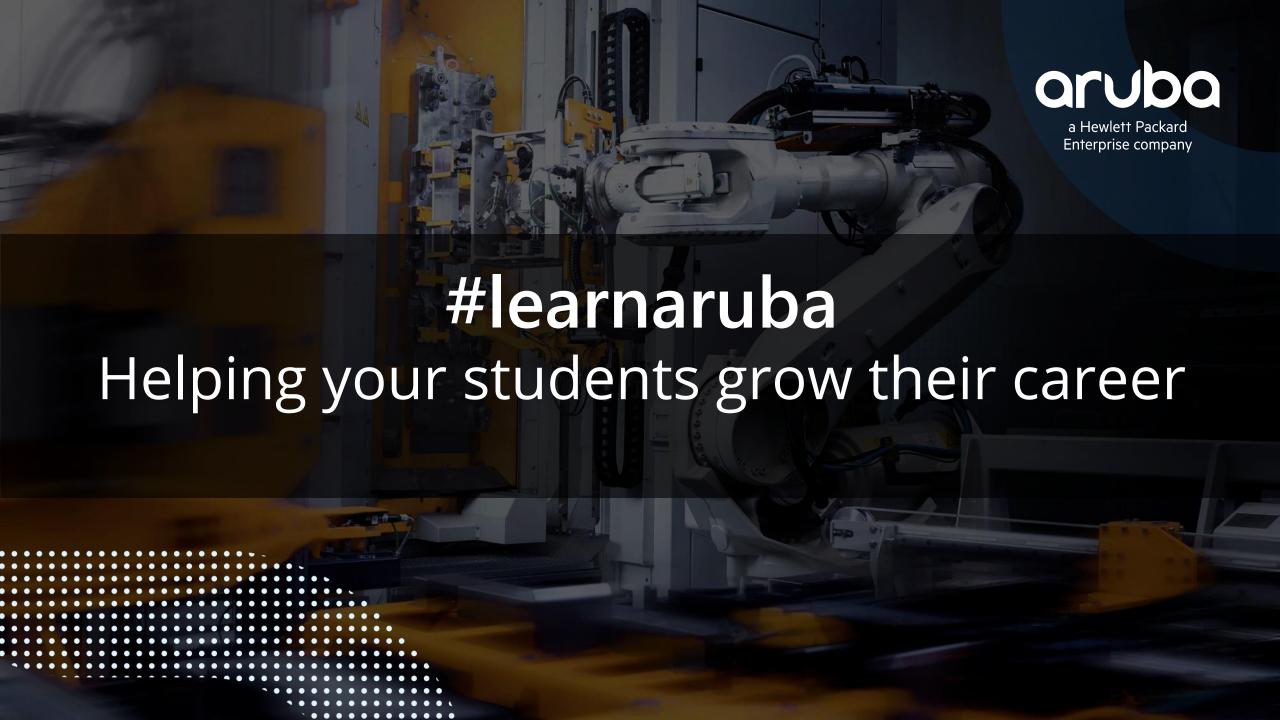




#### Wi-Fi and Aruba Central









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# ARUBA ACADEMY

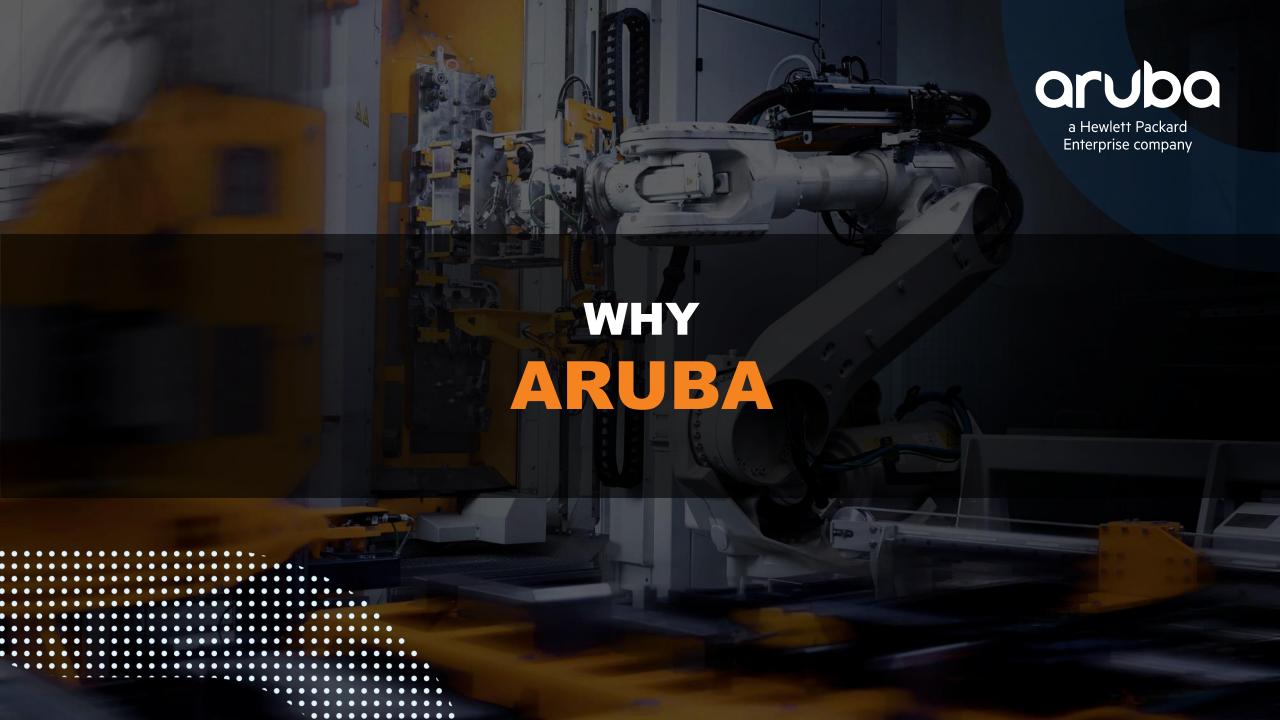








Design





Education
is Aruba's largest
vertical for
a reason



Top & Prestigious
Colleges in India
have Aruba Solutions
deployed

**Experience Aruba** 

7 of 8

Ivy League schools
leverage Aruba
solutions



2500+ Universities deploy Aruba WLAN



### **Indian Institutes who choose Aruba**

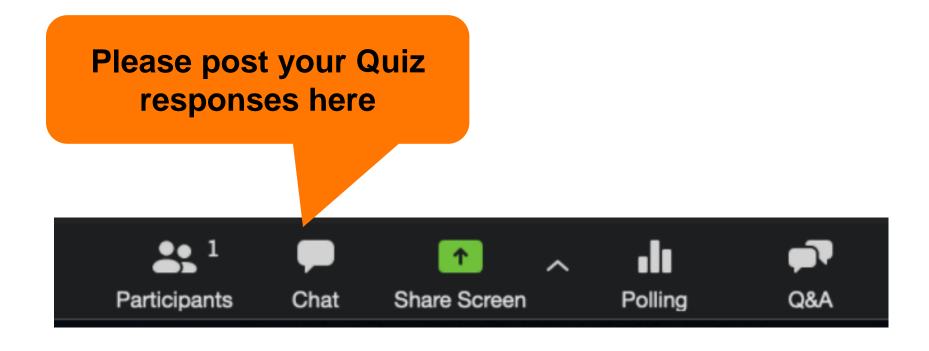
Few of the Many who trust Aruba!

Technical Institutes | Management colleges | Research institutes | Arts & Commerce



# Quiz Time

### **House Rules**





### **Question 1:**

Which of the following Aruba Wi-Fi APs is best suited for hostel rooms?

- a. Aruba AP515
- b. Aruba AP535
- c. Aruba AP503H
- d. Aruba AP565

Correct Answer: C







Aruba AP503H



### **Question 2:**

Which of the following are key components of Aruba Zero Trust Infrastructure? (Select two)

- a. Aruba UXI Sensor
- b. Aruba ClearPass Policy Manager
- c. Aruba AlOps
- d. Aruba ClearPass Device Insight

Correct Answer: **B & D** 

ClearPass Device Insight ENHANCED DISCOVERY / PROFILING

ClearPass Policy Manager
AUTOMATED SEGMENTATION AND
ENFORCEMENT



### **Question 3:**

In which of the following deployment models Aruba Central can be procured?

- a. Cloud-model
- b. Managed Services-model
- c. On-Premises model
- d. All of the above

Correct Answer: **D** 

Aruba Central CLOUD|MSP|ON-PREMISES



### **Question 4:**

Aruba Meridian location services platform leverages which of the following technology on Aruba APs and beacons?

- a. Wi-Fi6
- b. Bluetooth Low Energy (BLE)
- c. ZigBee
- d. WPA3

Correct Answer: **B** 





### **Question 5:**

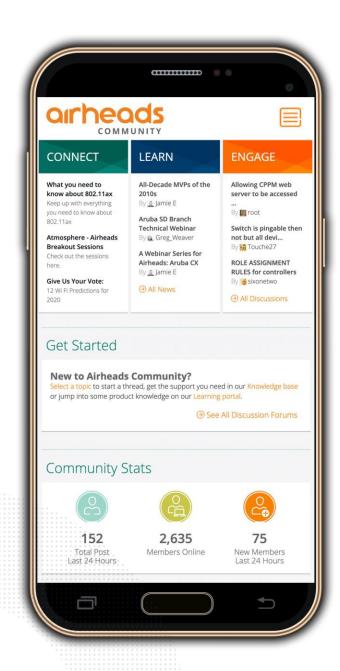
Which of the below Aruba products can be deployed over a non-Aruba Infrastructure? (Select two)

- a. Aruba ClearPass
- b. Aruba UXI Sensor
- c. Aruba Central
- d. Aruba Asset Tags

Correct Answer: A & B

Trojan Horses
CLEARPASS|UXI|





# arheads

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# Thank You