

INTERNSHIP

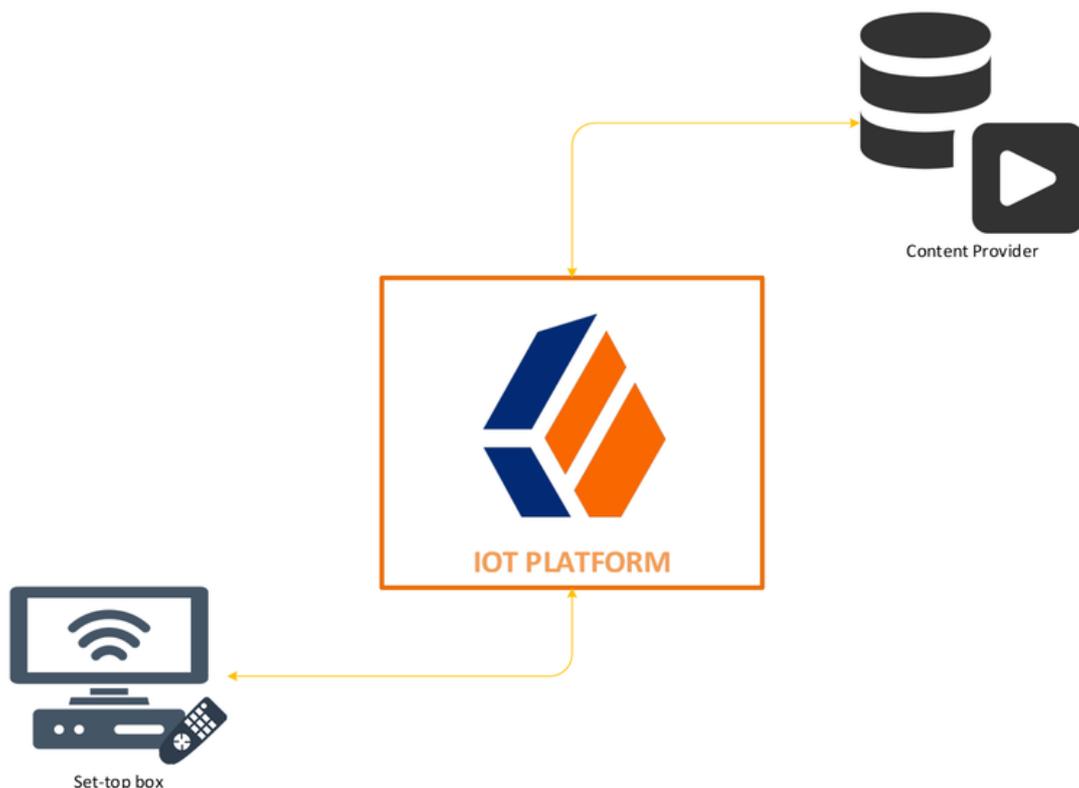
**SECURING A PHYSICAL
OBJECT OVER THE
INTERNET**

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FORGEROCK THINGS: SECURE A TV PLATFORM

Internet of Things (IoT) has been a hot topic for several years, but until recently it never received the necessary attention in the world of Consumer Identity and Access Management. However, with the latest iteration of its platform, ForgeRock is now changing that. They introduce ForgeRock Things; a collection of SDKs that can be used in building a secure IoT platform. This assignment focuses on integrating the IoT capabilities within ForgeRock Identity Stack to solve a real world problem: securing a physical object over the internet.

IdenTV, one of the new players in the digital TV market, wants to distribute their set-top boxes among their consumers. To ensure a secure platform, IdenTV asked us to manage these devices with the ForgeRock products.



THE INTERNSHIP

WHAT WE EXPECT FROM YOU

Minimum viable product

The design of the solution must meet the following requirements:

- End users must be able to easily “register” their box in a secure manner through a CA trust PKI setup.
- All communication between the device and the authentication platform must use a secure protocol.
- ForgeRock’s IoT SDKs must be implemented in the client application.
- Devices must be securely authenticated on the IoT platform.
- Only authorized devices should have access to protected resources on the media content provider (provided by IdentIT).

Optional

- Set up of different types of memberships
- Server hardening and high availability setup

Technologies / Concepts involved in this assignment

- ForgeRock IoT
- Identity and Access Management
- Federation protocols
- Development with emphasis on security

Deliverables

The following delivery is expected at the end of the assignment:

- (Technical) analysis of the problem statement
- Architecture of the required components
- Implementation that meets all stated requirements
- Integration of the client application on the ForgeRock environment
- Demo of the end-to-end solution
- Documentation

ABOUT IDENTIT

IdentIT is a Consumer Identity and Access Management (CIAM) focused company. Our mission is to enable our client's consumer identities in the digital world whether these are customers, other companies, or citizens. As we continue to grow and expand our offerings, we are looking for talented people to join our team.

At IdentIT, we are dedicated to helping our team members achieve both personal and professional growth. Whether you're an IT pro or just starting out, we give you the opportunity to develop your skills and excel in your areas of expertise. We value continuous learning, teamwork, and supporting each other's growth, because we know that together, we can achieve even greater things. Plus, we have a lot of fun along the way - after all, why shouldn't work be enjoyable? If you're ready to take launch your career and reach your full potential, join the IdentIT team and be a part of our CIAM success story.

WHAT YOU CAN EXPECT FROM US



Feel at home
in our team



Cowork at our
Headquarters



Take part in
team events



Strengthen
your talent



Choose your
own path



Learn from
our experts



Coming together is a
beginning, staying
together is progress,
and working together
is success."

- Henry Ford

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