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Securing Critical Assets with FortiPAM

Marcus Moerke – Systems Engineer

What is PAM?

Privileged Access Management (PAM)

is a cybersecurity strategy meant to secure and monitor access to critical assets such as firewalls, servers, OT or cloud infrastructure. It ensures only authorized users can perform sensitive tasks such as configuration and maintenance while preventing unauthorized access to sensitive information.

Monitor and Record Sessions

Post session audit and ability to terminate sessions in real-time



Manage Privileged Credentials

Store credentials securely and automatically create and rotate passwords

FortiPAM Use Cases



Attack Mitigation

- Mitigate external attacks
- Prevent lateral spread



Threat Prevention

Prevent insider threat

 Many cyber attacks are perpetrated by users who had been given privileged access to an organization's IT system



Access Control

Control third-party access

- Organizations routinely outsource operations to external service providers
- Audit usage for billing purposes.



Compliance

- Meet Cybersecurity Insurance requirements
- Achieve compliance

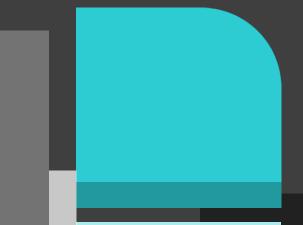


Visibility

 Provide visibility and management of access to critical assets

FortiPAM Features

		•			•					







FortiPAM Key Functions

Manage Account

Credentials

Providing credential vault

- End users does not know or see the credentials
- Reduces the risk of credentials leaking

Control Privileged User Access

Only authorized users can access specific resources

- Least privilege access based on roles (Standard User, Administrator, Custom)
- Secret permission control
- Administrator defined policy and permission

No sensitive data left on end-user computer Automatic password changing ZTNA Controls Hierarchical approval system Control of risky commands



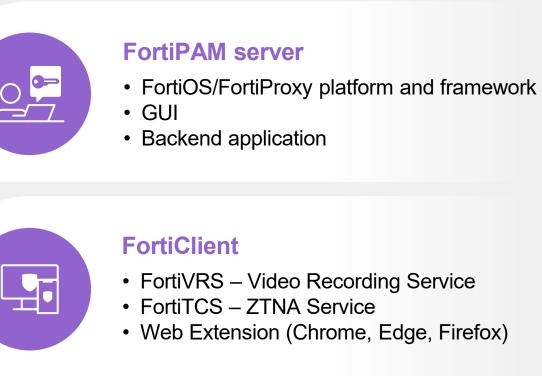
Session activity surveillance

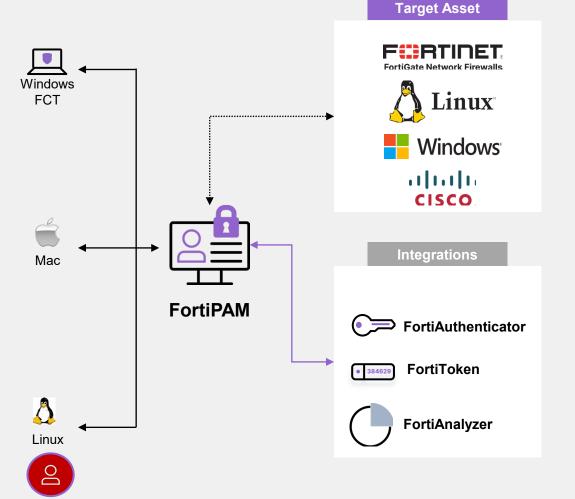
- Session list monitoring
- Session recording
- Over the shoulder monitoring Roadmap
- Post session audit

Keystroke, mouse events monitoring Video recording



FortiPAM Solution Components



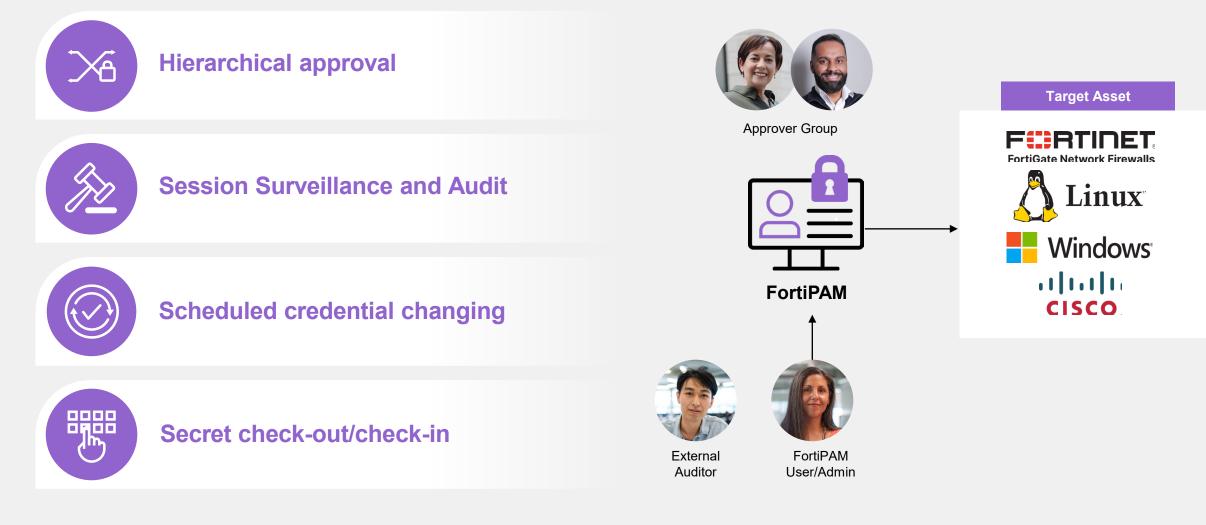


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FortiPAM Key Functions



Asset Access Monitoring

User Monitor

Active

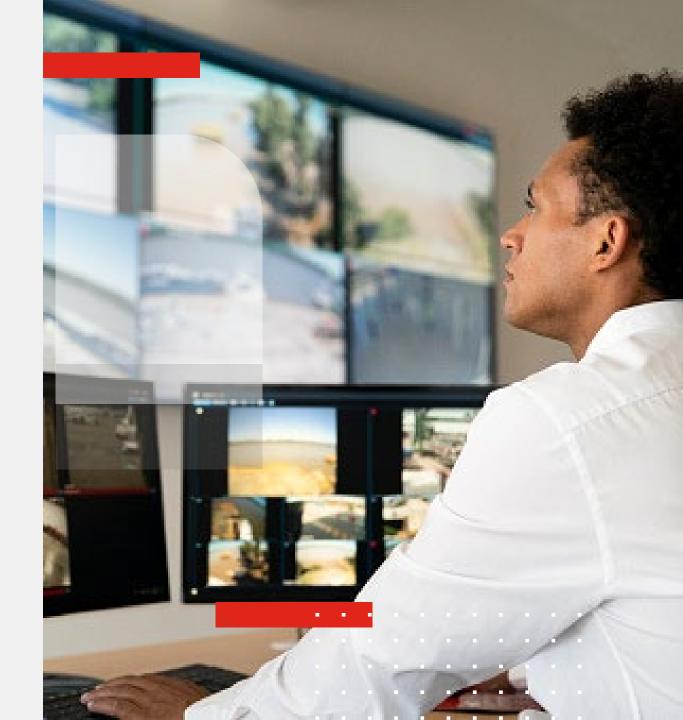
- Logged in user •
- Keyboard/mouse activity logging

 Sessions currently being proxied to critical asset Sessions

• Active viewing with session termination capability

Secret Video

- View logs of video recordings •
- Playback recordings from the log viewer



FortiPAM Advantages

• Why FortiPAM is growing as fast as it is



Unique Security

- ZTNA
- Anti-Virus
- DLP

Ease of Use

- Core PAM capabilities
- Quick to deploy and use
- Flexible options: appliance, VM, cloud

Value

- No hidden costs for additional features
- Established vendors charging way too much

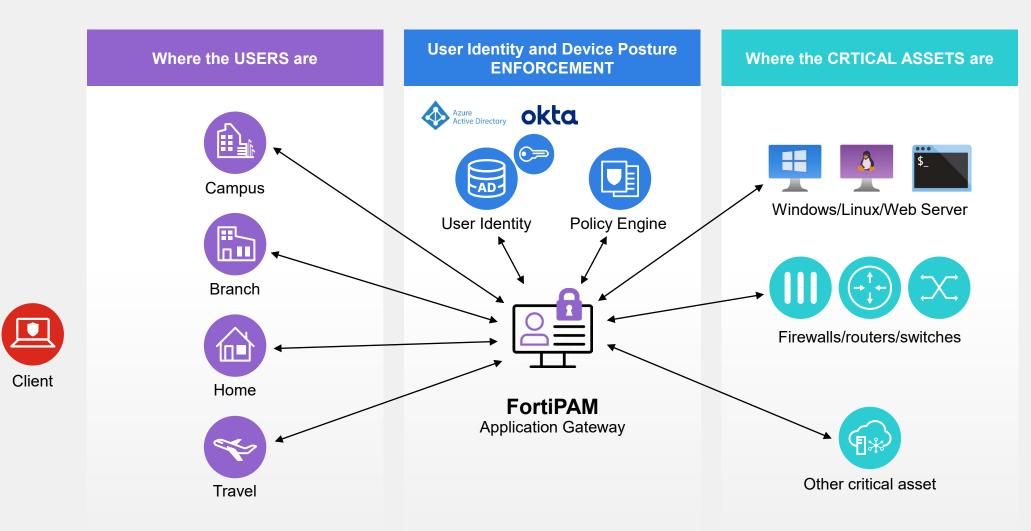
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Zero Trust

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ZTNA Elements – FortiPAM as Application Gateway

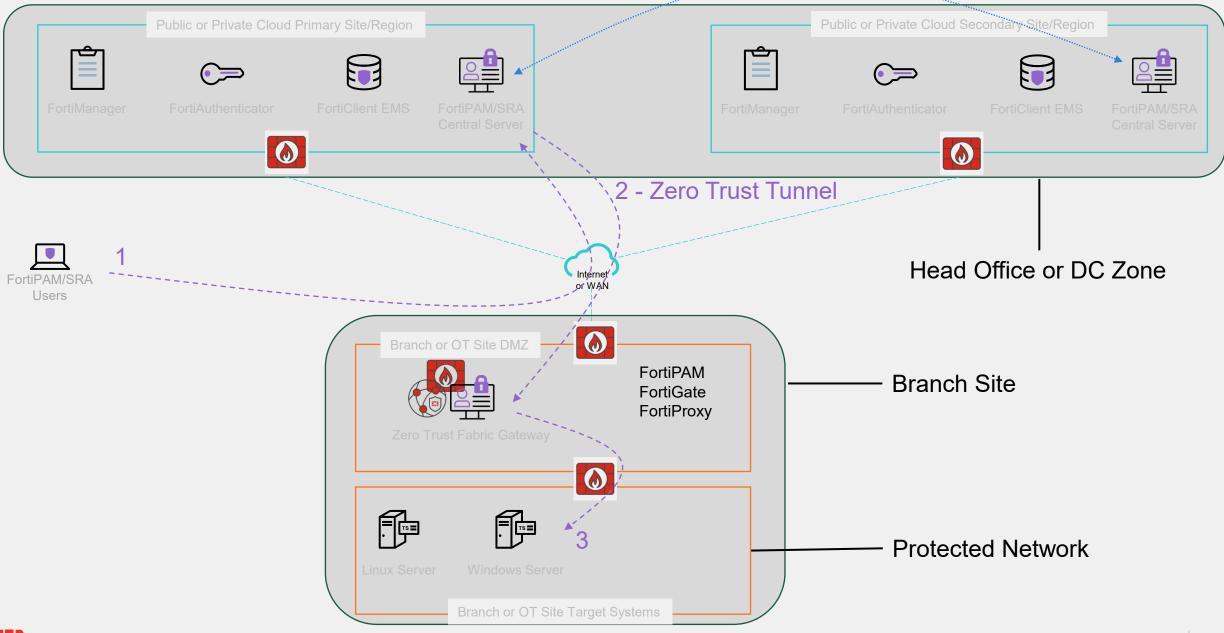
The components of a client-based ZTNA PAM solution



User

FortiPAM Distributed Architecture

HA over L3



Securing Access to Critical Assets



- Manage Access to Critical Assets
 - Servers, network infrastructure (FortiGate), OT devices
 - Easily provision role-based user access
 - Automatic password changing
- Enhanced Security
 - Control access using ZTNA tags + MFA
 - Scan file uploads for malicious content
 - DLP protection
- Monitor and Audit
 - All sessions recorded for audit purpose
 - Session termination capability
 - Fulfill cybersecurity insurance requirements

