

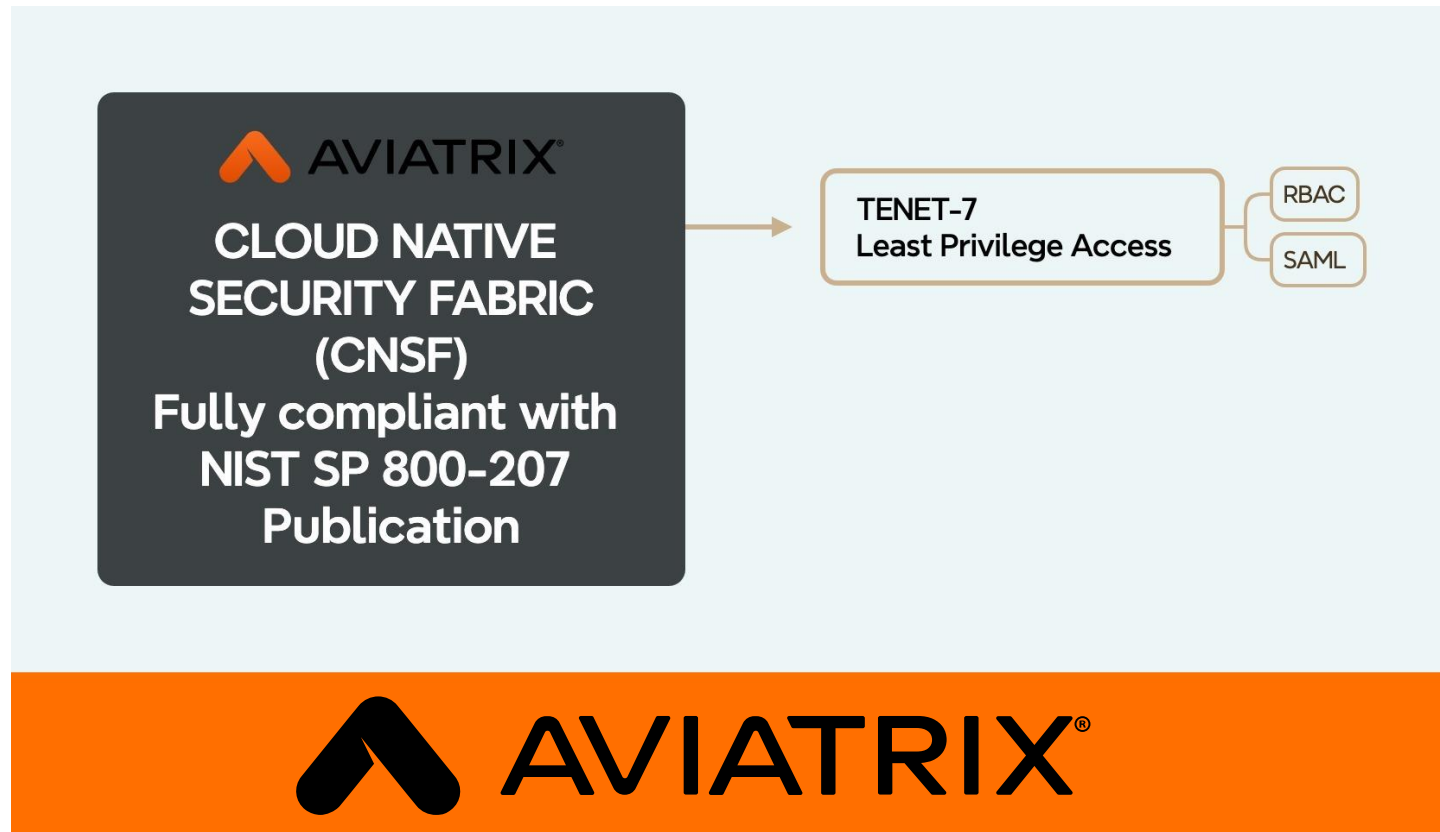


Tenet-7: Least Privilege Access

Audit, Reporting and Alerts

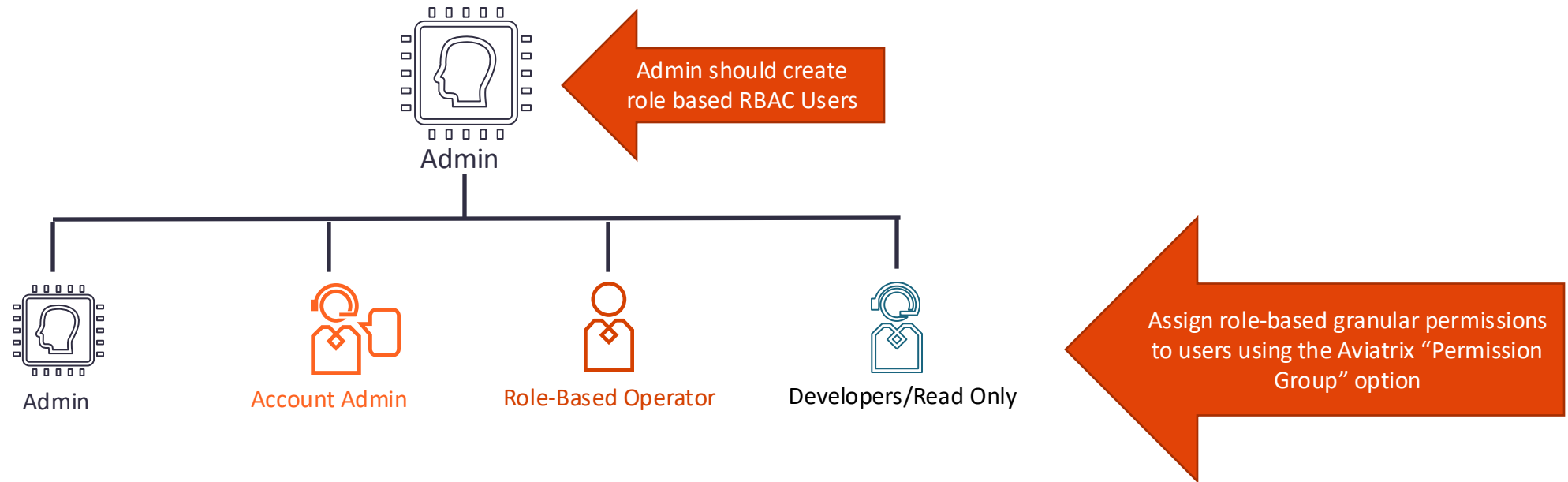
Tenet from NIST Publication 800-207 - Zero Trust Architecture (ZTA)

Access to individual enterprise resources is granted on a per-session basis. Trust in the requester is evaluated before the access is granted. Access should also be granted with the least privileges needed to complete the task. This could mean only “sometime



RBAC: Role-Based Access Control

Aviatrix RBAC is based on the “Users” and “Permission Group” concept



RBAC with SAML/OKTA

<https://www.youtube.com/watch?v=l9zmZTaVUo8>

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User Access- CoPilot



☰ CoPilot

Dashboard

Cloud Fabric

Networking

Security

Groups

Cloud Resources

Monitor

Diagnostics

Administration

User Access

Reports

User AccessUsersPermission GroupAccess Management

+ User

⌵⌵⌵

Name	Email
admin	ace.lab@aviatrix.com
copilot_service_account	ace.lab@aviatrix.com
johndoe	johndoe@aviatrix.com
student	ace.lab@aviatrix.com

Add User

Username

cloudE-engineer

Email

engineer@aviatrix.com

Password

.....

👁

Confirm Password

.....

👁

Permission Groups

security ×

× ⌵

Cancel

Save

aviatrix

Permission Group (part.1)



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User AccessUsersPermission GroupAccess Management

+ Permission Group

🔍📄📥

Name	Copilot Visibility	Controller Permissions
admin	All	Write
read_only	All	Read
copilot_permission	All	Write
security-team	Security Groups	

Permission Group (part.2)



Create Permission Group ?

Name

Network-team

Users

johndoe x

Access Accounts

aws-account x

CoPilot Visibility Controller Permissions

⚠ CoPilot Visibility is in Preview. Preview features are not safe for deployment in production environments. [Learn More](#)

Select All Views Clear All Views Search and Select

Cloud Fabric

Topology 5/5 Tabs All Tabs x

Gateways 6/6 Tabs All Tabs x

Hybrid Cloud 4/4 Tabs All Tabs x

Scaling 2/2 Tabs All Tabs x

Cancel Save

Cloud Fabric

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Settings

Cancel Save

Authentication Phase



- Users can be authenticated:
 - **Locally** on the Aviatrix Controller
 - Onboard Users (Admin, Operators, Developers, Read-Only)
 - Allowed to reset their password
 - Using **SAML IDP**
 - Onboard Users (Admin, Operators, Developers, Read-Only)
 - Other functionality depends on IDP



onelogin

okta



G Suite



AWS SSO



SAML Integration Example – Identity Provider

RBAC User: developer

RBAC User: Admin

RBAC User: Account_A-B

RBAC User: SecOps

read_only

Super-Users

Account-Admin

Account Admins (A&B)

Account Admins (C&D)

Security-Users

RBAC-User	Permissions
developer	Read Only
Admin	Super User (Admin)
Account_A-B	CSP Account Admin for Accounts A&B Only
SecOps	Security User



okta

Sign In

Username

Password

☐ Remember me

Sign In

aviaatrix

Username

Password

SIGN IN

[Forgot password?](#)

OR

aviaatrix_saml_controller

SIGN IN WITH SAML



Admin/Super-Users
Admin



Account Admins
Account-A&B



Security-User
SecOps



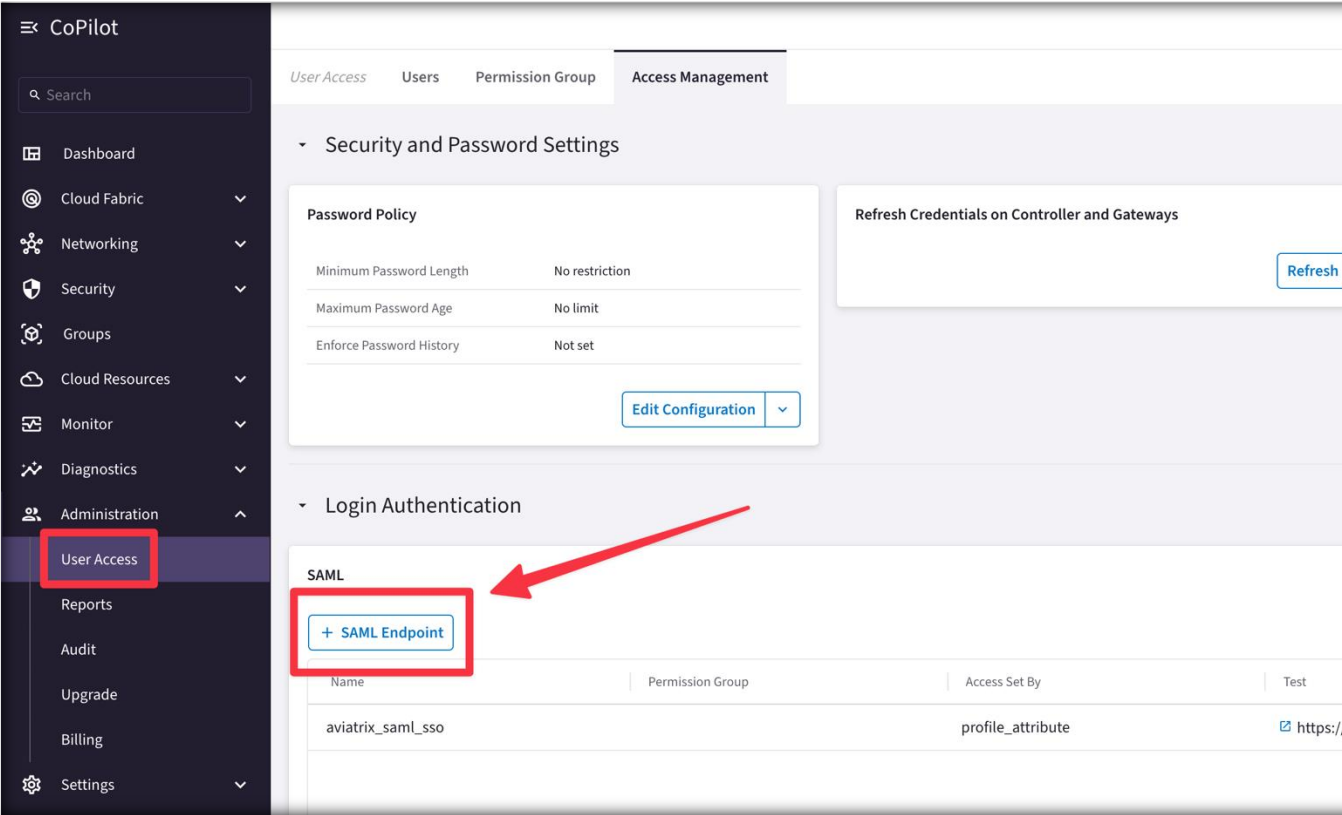
Developers/Read Only
Developer

Configuring SAML Authentication

User can be authenticated using the local database or using the SAML Integration.

Go to *CoPilot > Administration > User Access > Access Management*

Under Login Authentication, click **+SAML Endpoint**



The screenshot shows the CoPilot interface with the following navigation path highlighted:

- CoPilot
- Administration
- User Access
- Access Management

Under the **Access Management** tab, the **Login Authentication** section is expanded, showing the **SAML** configuration area. A red box highlights the **+ SAML Endpoint** button, with a red arrow pointing to it.

Create SAML Endpoint

Name

Octa

☒ SAML Endpoint Configuration

Identity Provider Metadata Type

☒ URL
 ☐ Text

Identity Provider Metadata URL

1Y00006RYxeSAD/with-okta-admin-changes-how-do-i-find-identity-provider-metadata-url?language=en_US

Entity ID

☒ Hostname
 ☐ Custom

Access Set By

☒ Controller
 ☐ SAML Identity Provider Attribute

Permission Group

Sign Auth Requests

☐ No

Cancel

Save

