

# Setting up AWS Access

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# Introduction

## **AWS Identity & Access Management**

- Multi-Factor authentication
- Delegated access using assumed roles
- Configuring IAM policies, roles, users and groups

## **Operational Access and Tooling**

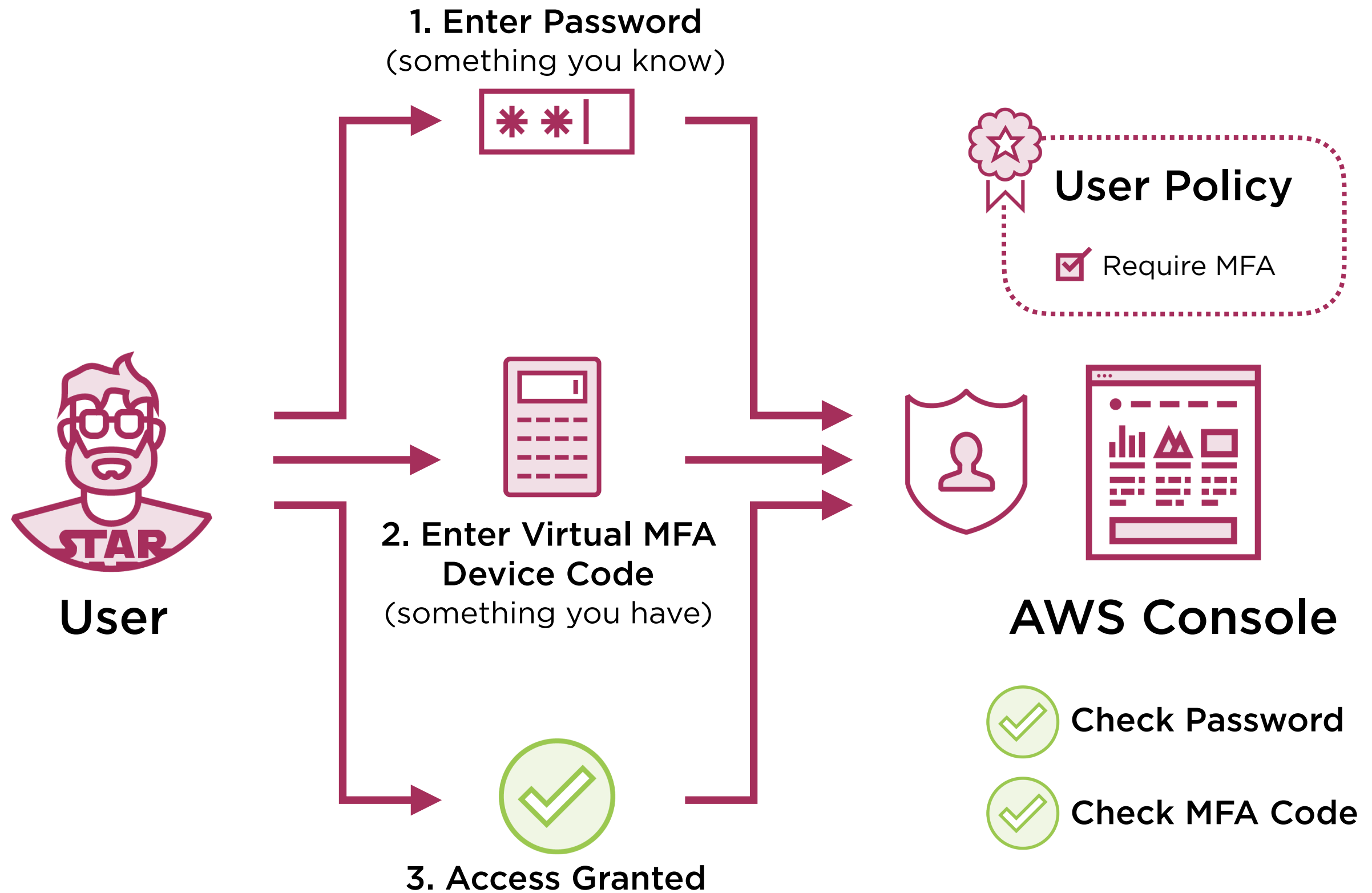
- Creating an EC2 Key Pair
- Configuring the AWS CLI

# Setting up AWS Identity & Access Management

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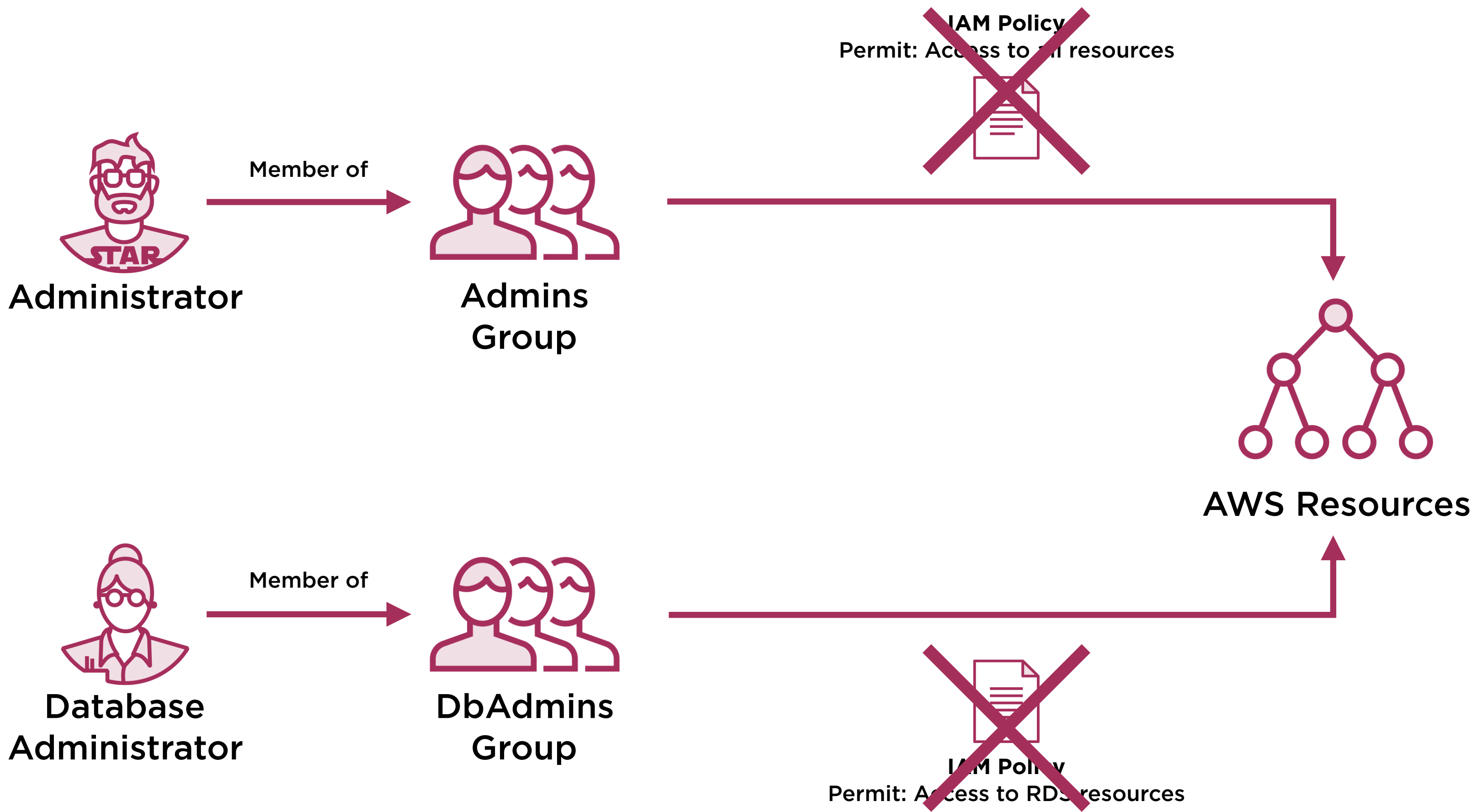
# IAM Best Practice

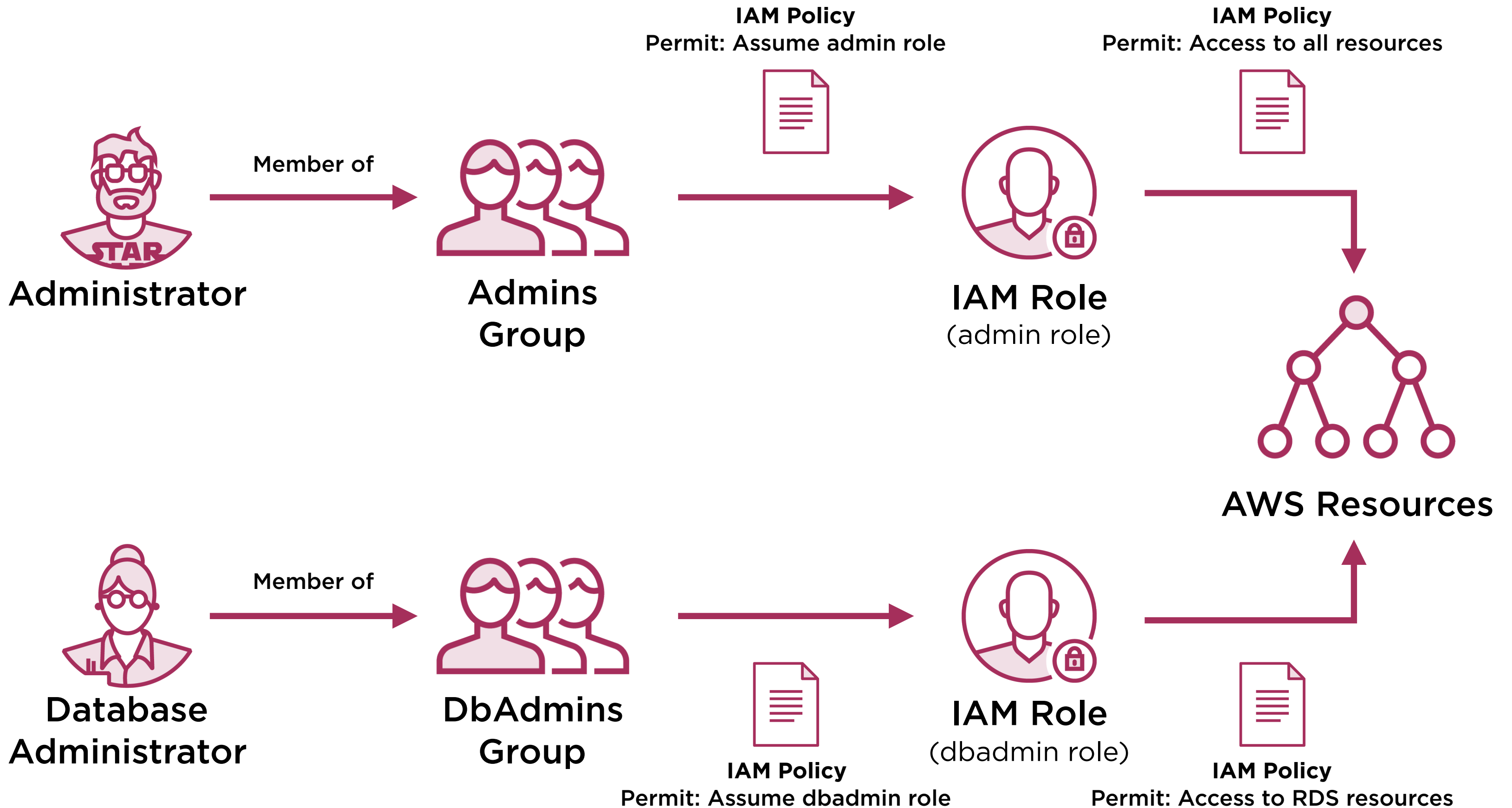
Use Multi-factor Authentication



# IAM Best Practice

Use IAM Roles to grant access to resources





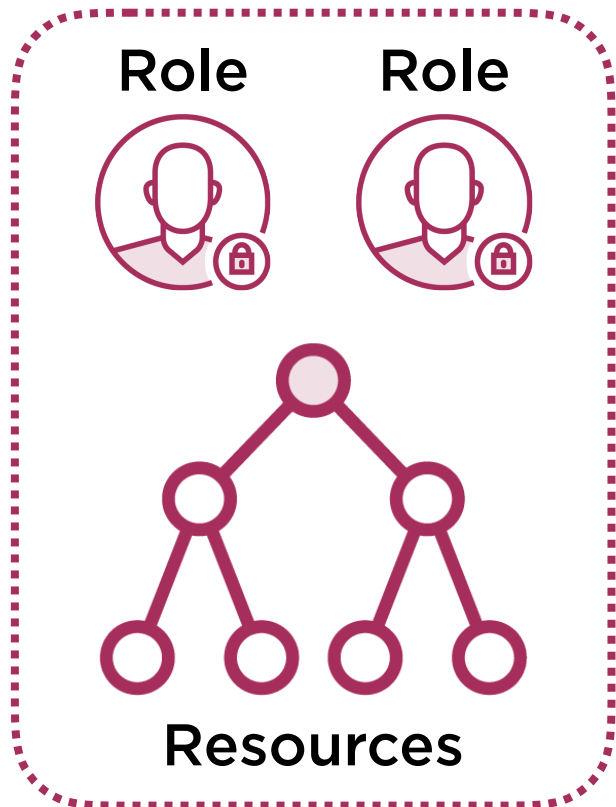
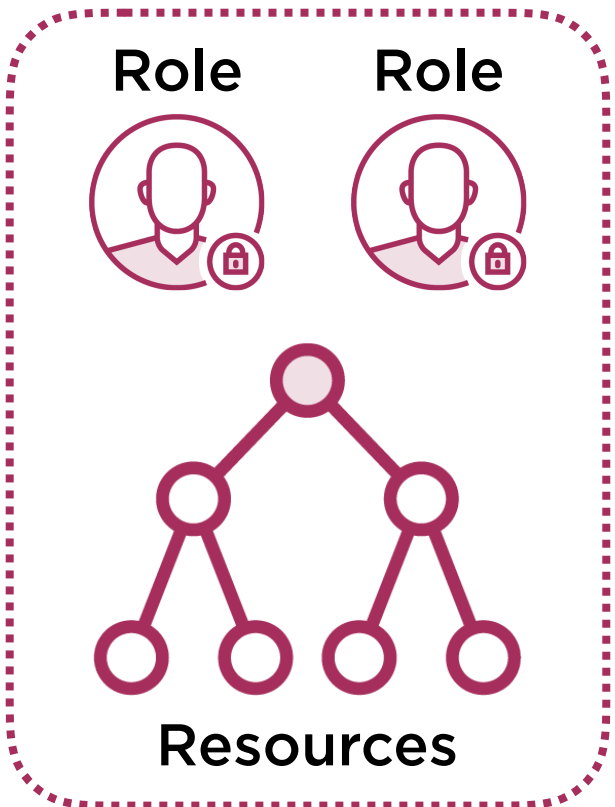
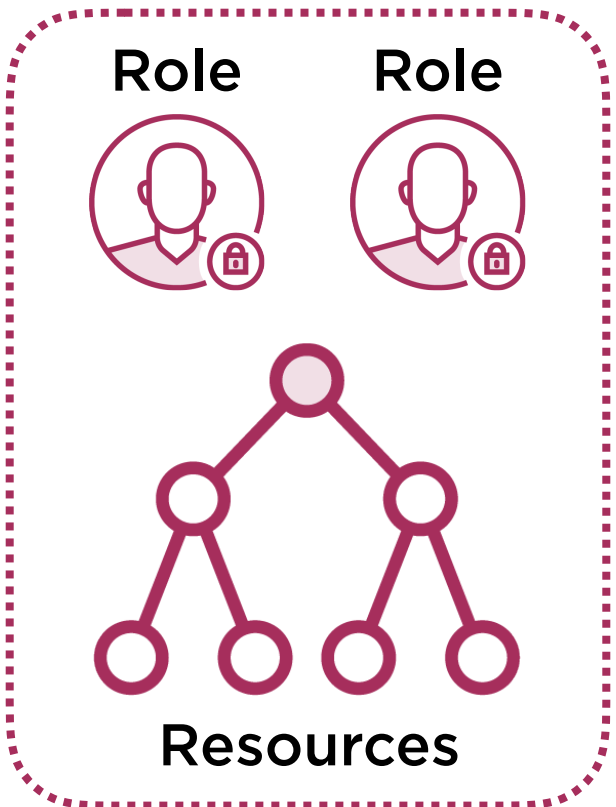


# AWS Identity Account



Assume Role

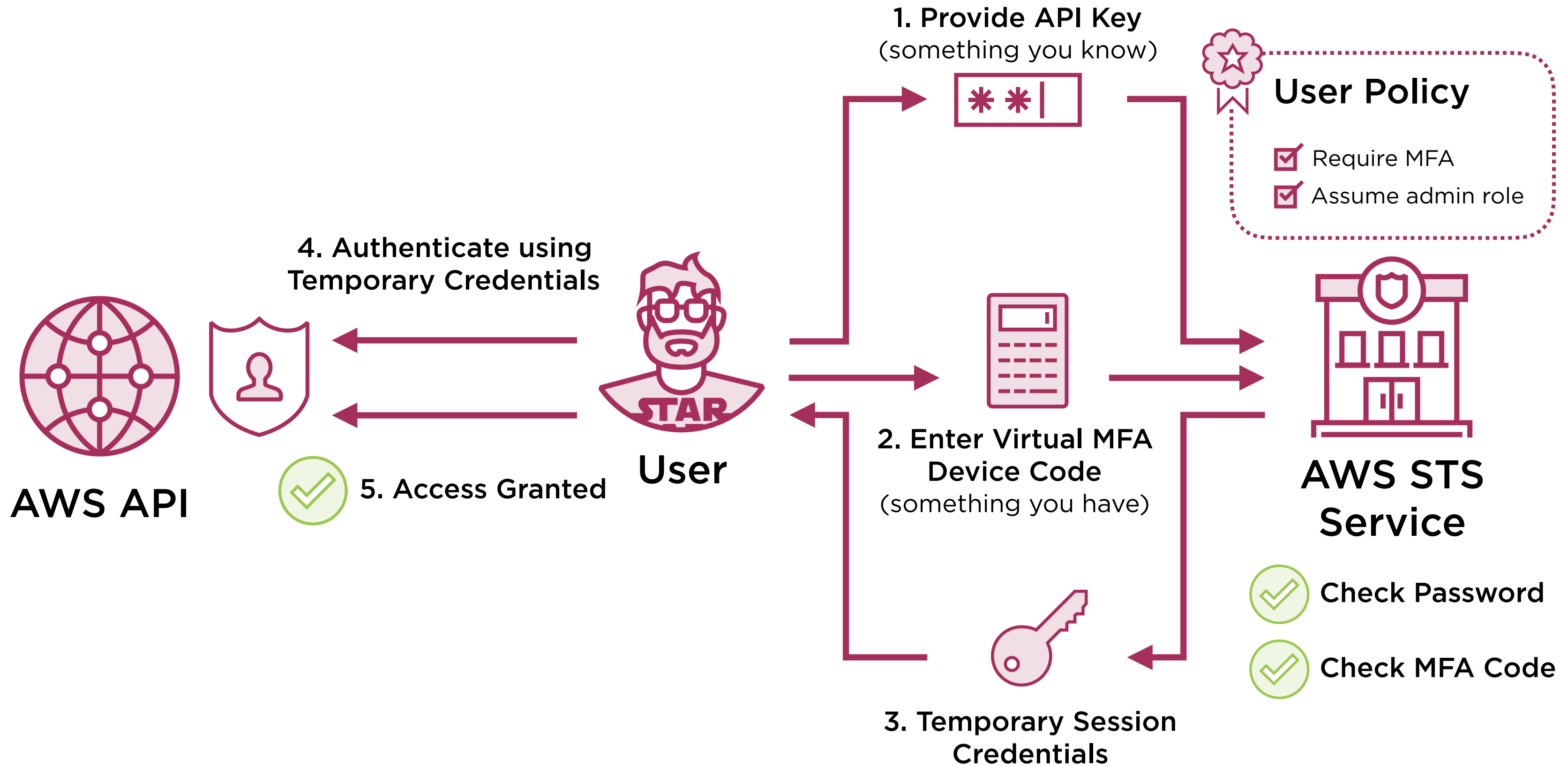
Assume Role



AWS Resource Account

AWS Resource Account

AWS Resource Account



# Demo

## **Setting up AWS IAM**

- Creating an Account Alias
- Creating IAM Roles
- Creating Groups
- Creating IAM Policies that enforce MFA
- Creating Users
- Enrolling Users for MFA

# Creating an Account Alias

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# Creating IAM Roles

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# Creating Groups

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# Creating and Enrolling Users for MFA

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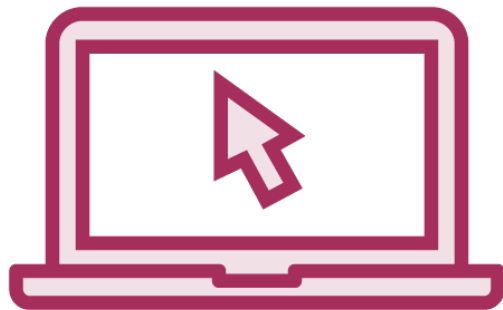
# Setting up an EC2 Key Pair

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# EC2 Key Pair

**Management Host**



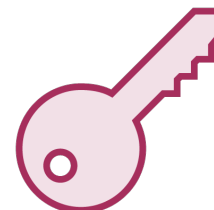
**EC2 Instance**



**EC2 Key Pair**



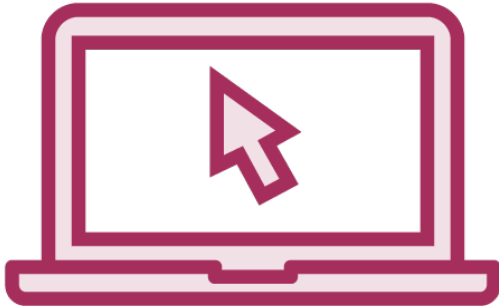
**Private Key**



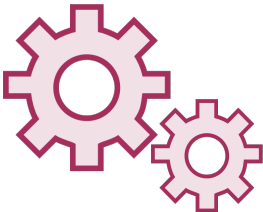
**Public Key**

# EC2 Key Pair

Management Host

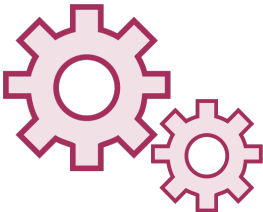


EC2 Instance

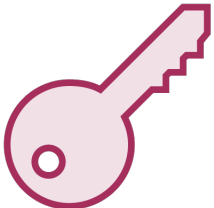


Private Key

Secure Shell (SSH)



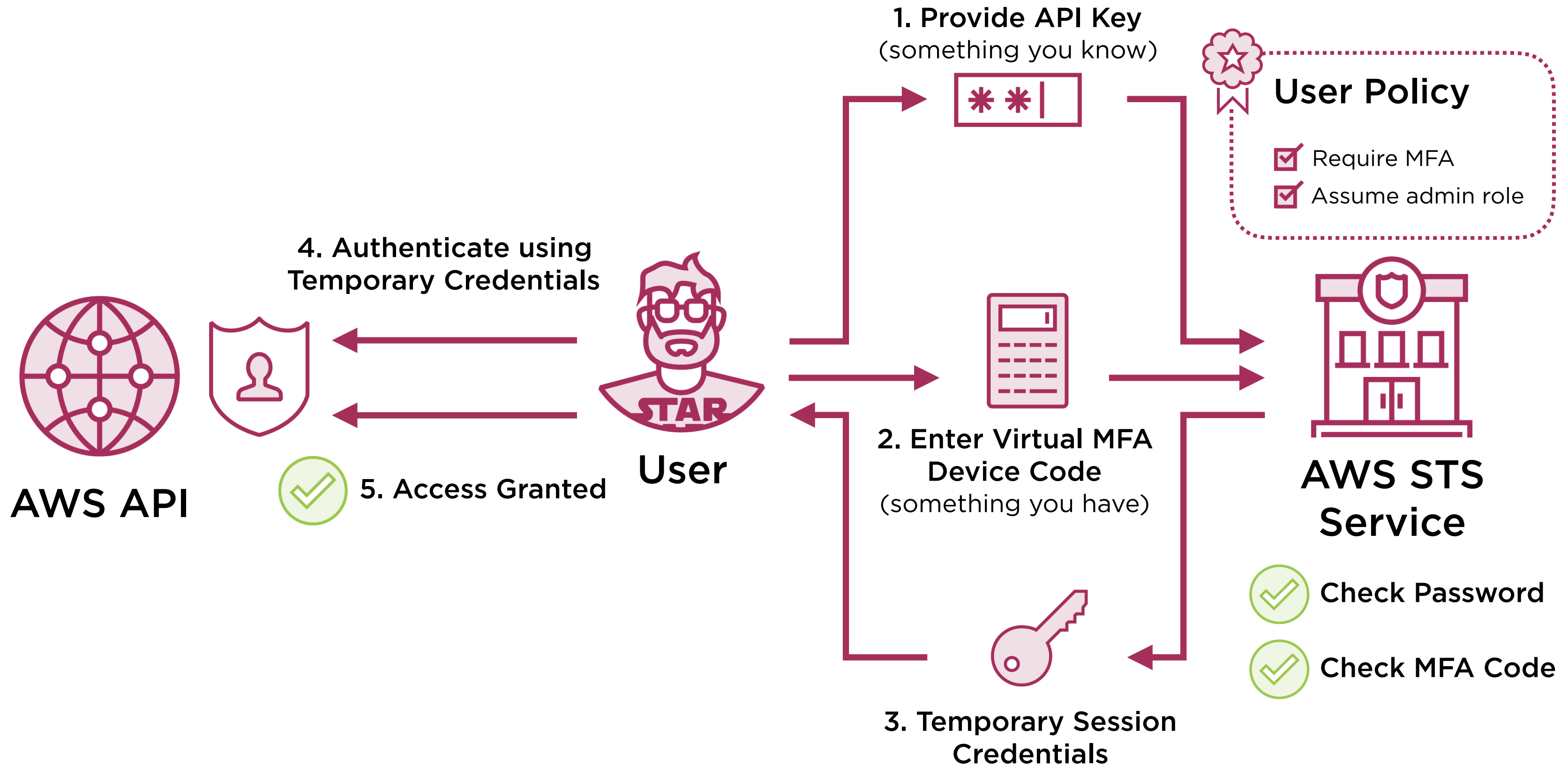
RSA Public Key  
Authentication



Public Key

# Setting up AWS CLI Access

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# Summary

## **AWS IAM Setup**

- Multi-factor Authentication
- Assuming IAM Roles
- Roles, Policies, Users and Groups

## **AWS Tools Setup**

- EC2 Key Pair
- AWS CLI role assumption
- AWS CLI MFA support