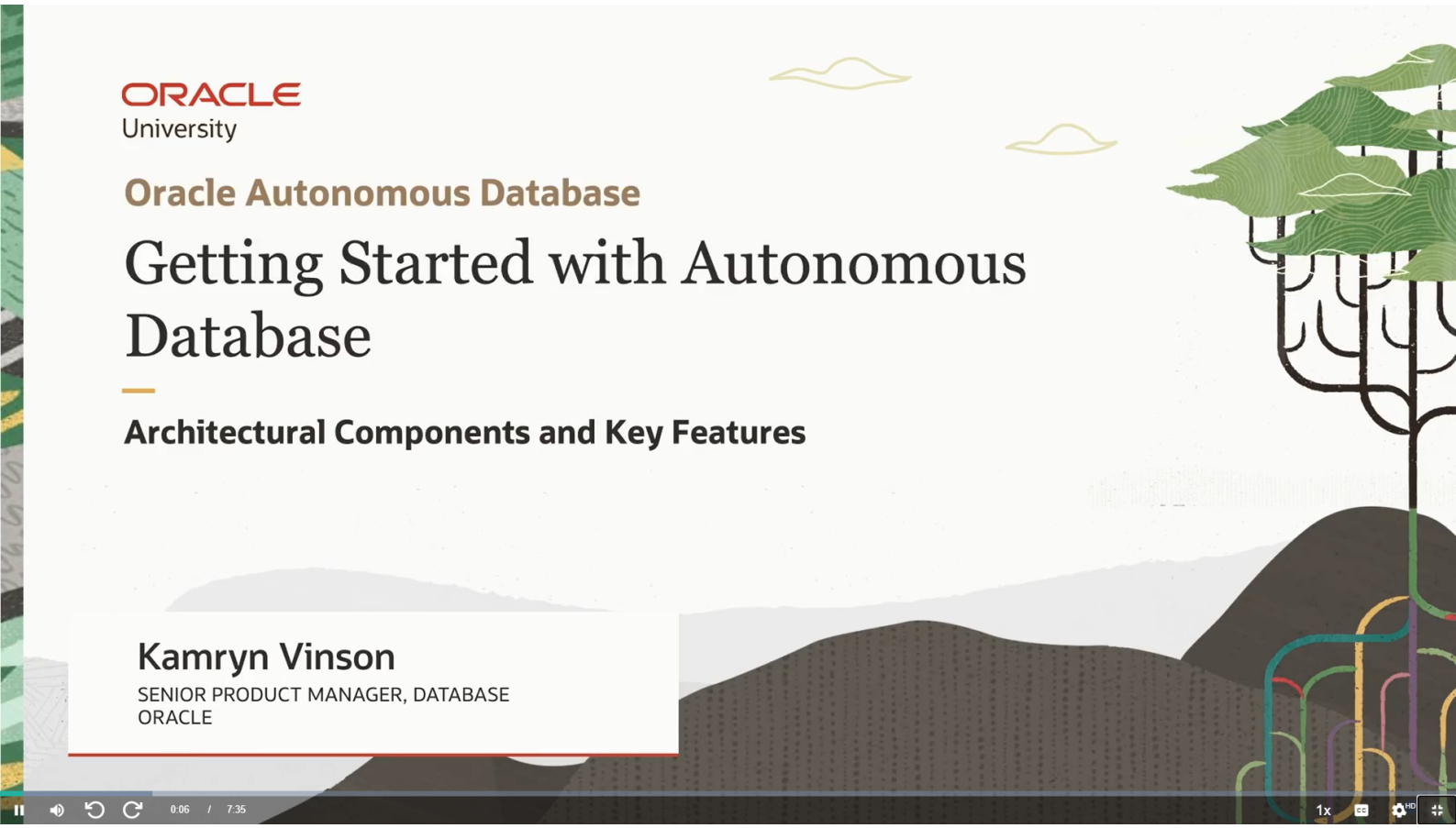

ORACLE
University
Oracle Autonomous Database
Getting Started with Autonomous Database
Architectural Components and Key Features
Kamryn Vinson
SENIOR PRODUCT MANAGER, DATABASE
ORACLE
0:06 / 7:35
1x

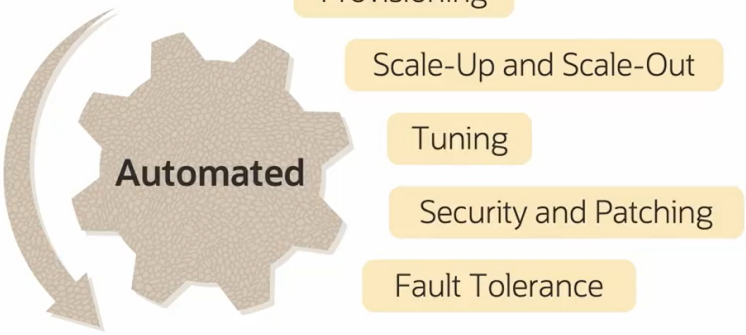
Objectives

- Defining the architectural components of Autonomous Database
- Articulating the key features of Autonomous Database


Overview
Defining the Architectural Components of Oracle Autonomous Database

Uses Machine Learning plus advanced and proven technologies

RAC, Data Guard, Database Vault, Parallel SQL, In-Memory, Multitenant, etc.



Complete Database Automation

Mission Critical, Simple, Low Risk, Low Cost

Eliminates fundamental problems that have existed for decades

- Complex administration
- Security vulnerabilities
- Downtime due to patching or failures
- Performance bottlenecks
- Static configurations
- High costs

Not an Incremental Improvement

A New Era of Database

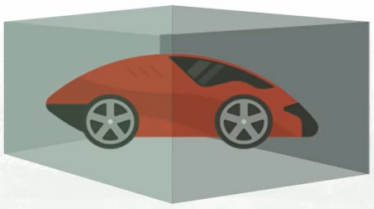
Autonomous Database Is Highly Available

Automatically protects from all types of downtime

Failures

Site Outages

Maintenance

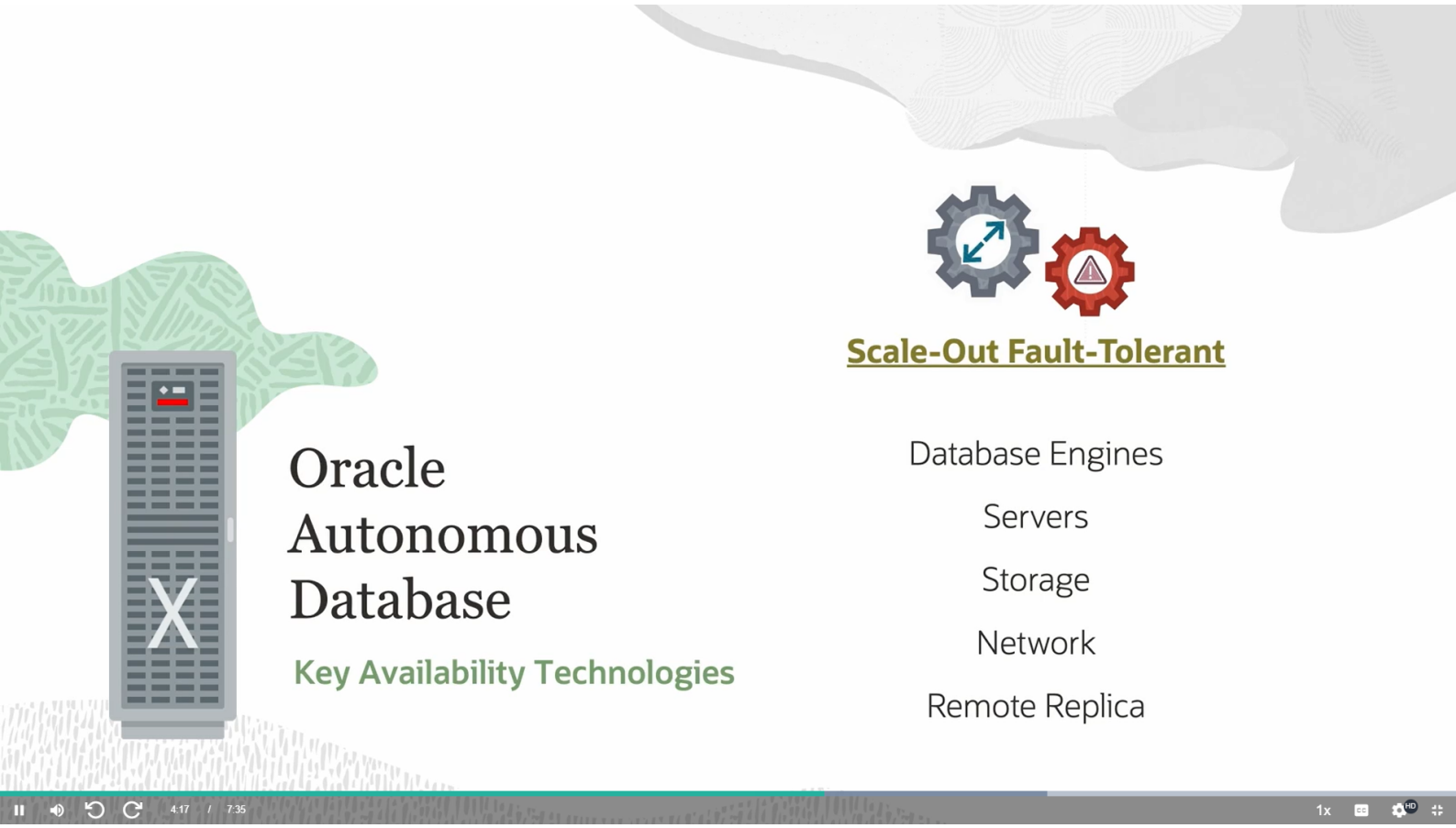


Changes

User Errors

No ridiculous exclusions to availability in fine print

Amazon excludes planned downtime, database bugs, regional outages, etc.


Oracle
Autonomous
Database
Key Availability Technologies
Scale-Out Fault-Tolerant
Database Engines
Servers
Storage
Network
Remote Replica

Articulating the Key Features of Autonomous Database

Oracle Autonomous Database
What and How

Provision

Rapidly and easily creates **mission-critical** databases

Creates **Exadata**+ Cloud Infrastructure, **RAC**+ scale-out database, and optional+ standby

Secure

Protects data from all external and internal threats

Applies security **updates online**+, prevents admin snooping with **DB Vault**+, **encrypts** all data

Manage

Automates all infrastructure and database maintenance

Patches all software **online**+, tunes settings, performs **all OS and SYSDBA** operations, diagnoses **errors**+

+ Unique to Oracle

Oracle Autonomous Database
What and How

Protect

Recovers from any failure without downtime

Automates backup, restore, **application transparent**+ failover within a cluster or to a remote standby

Scale

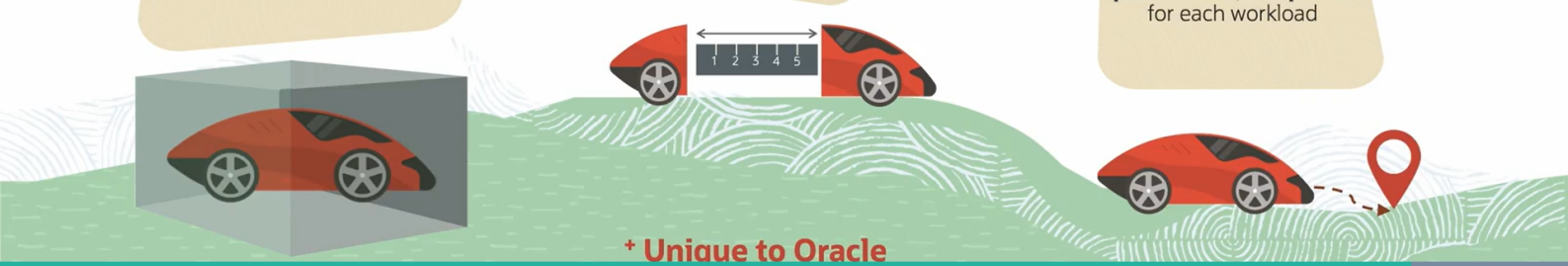
Scales online for highest performance and lowest cost

Instant, automatic, online scaling+ of compute and storage enables **true pay-per-use**+

Optimize

Optimally runs workloads without human direction

Automatically optimizes **data formats**, **indexes**+, **parallelism**+, and **plans**+ for each workload



+ Unique to Oracle

To wrap up...