2013 FALL MEETING

SALT LAKE CITY, UT
OCTOBER 15-17, 2013

RESO
Real Estate Standards Organization

Transport Workgroup

Scott Petronis

Matt McGuire

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Agenda

- Objective
- Why?
- What?
- Process
- Status
- Details
- Next Steps / Timeline
- Q & A

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Objective

- Determine recommended approach for a RESTful way to deliver real estate data
- Enable direct interaction with data from web, mobile, social applications
- Keep things lightweight
- Don’t re-invent the wheel

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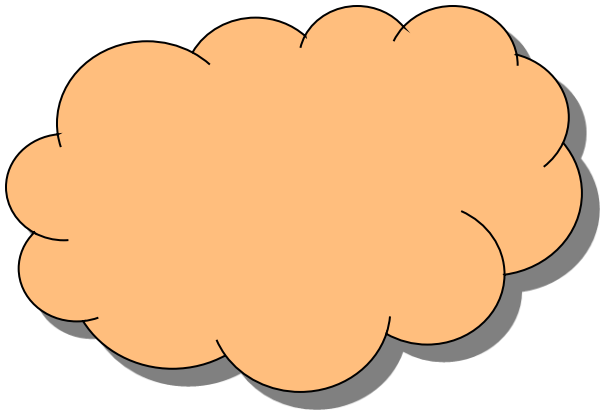
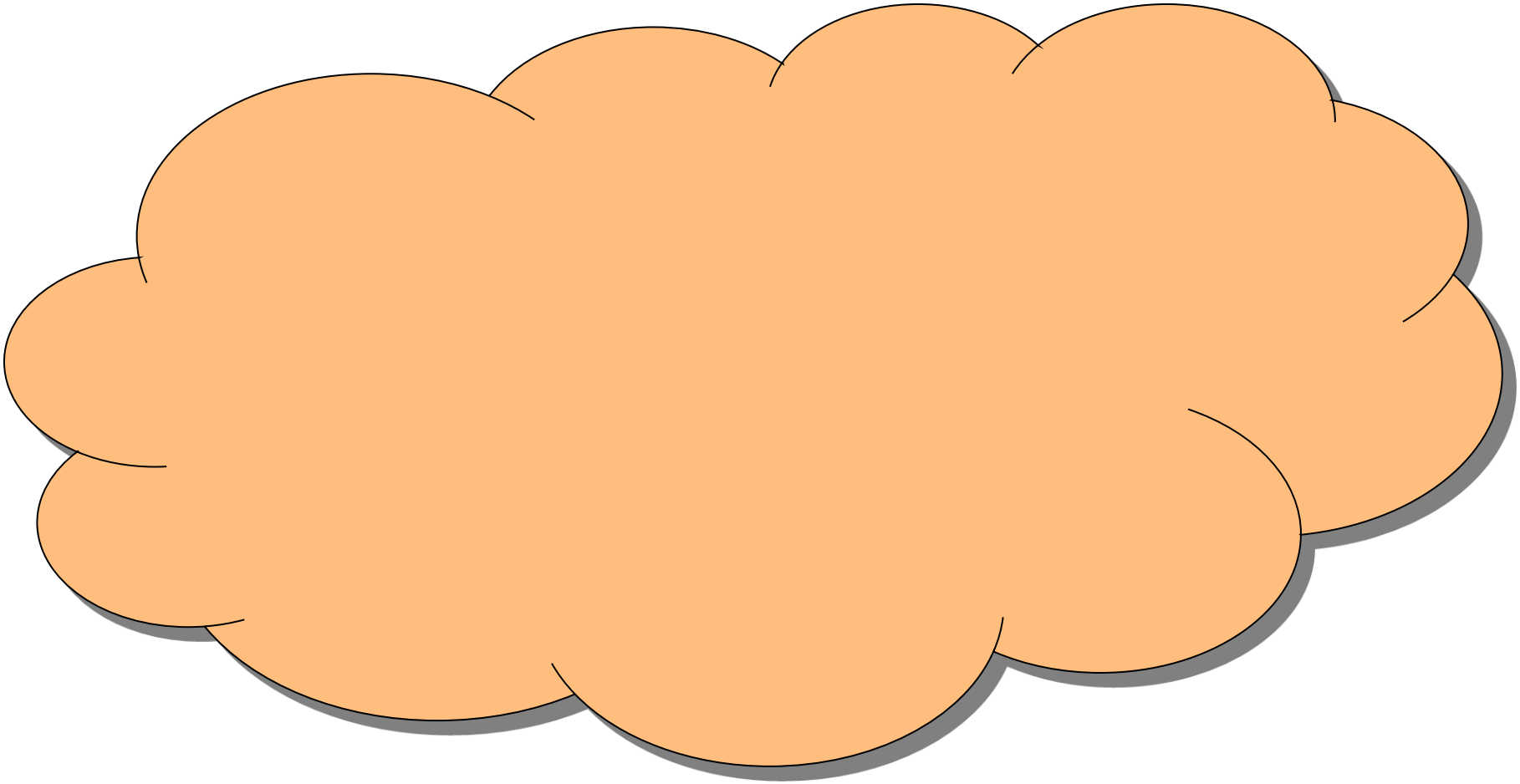
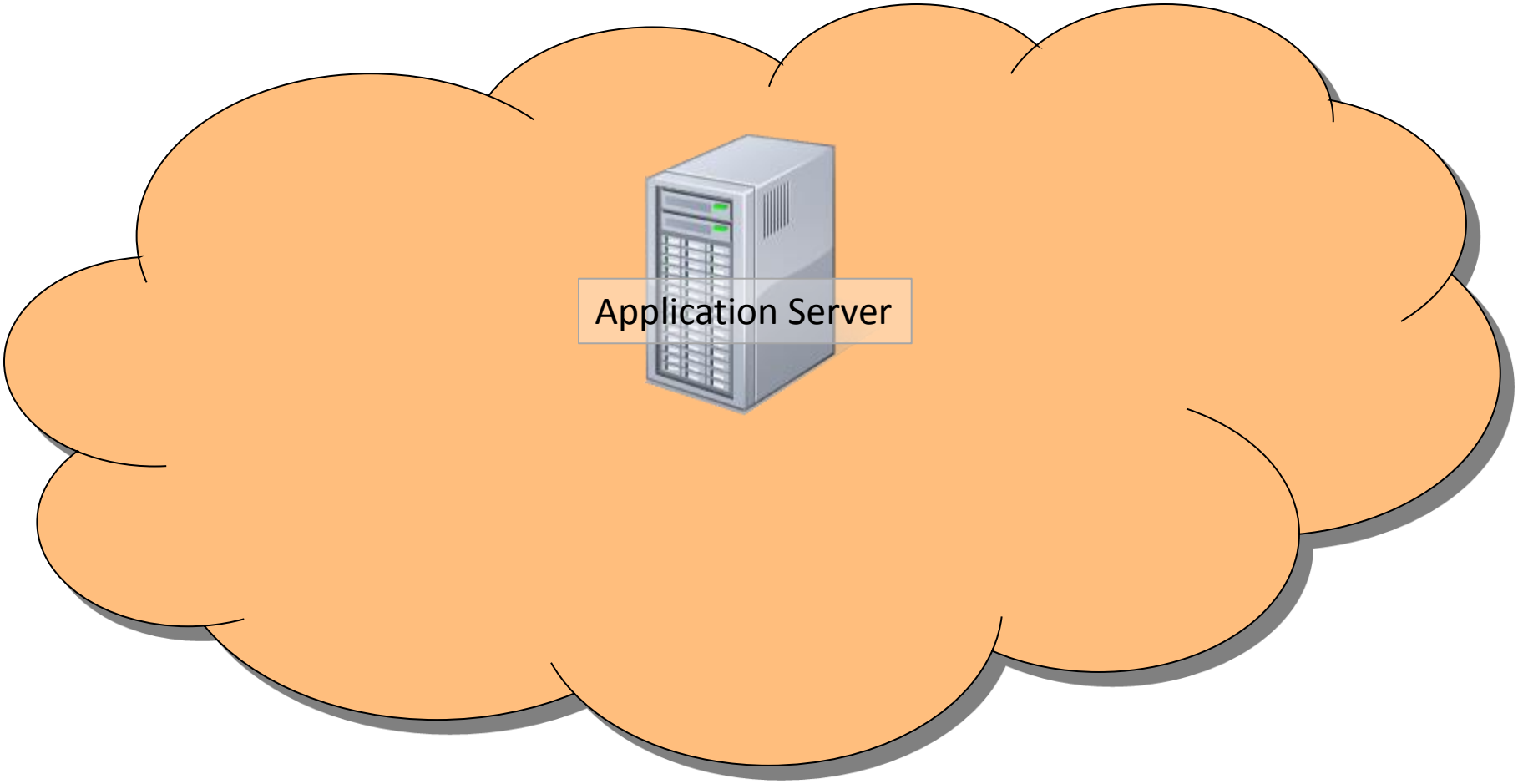
What is the Cloud?



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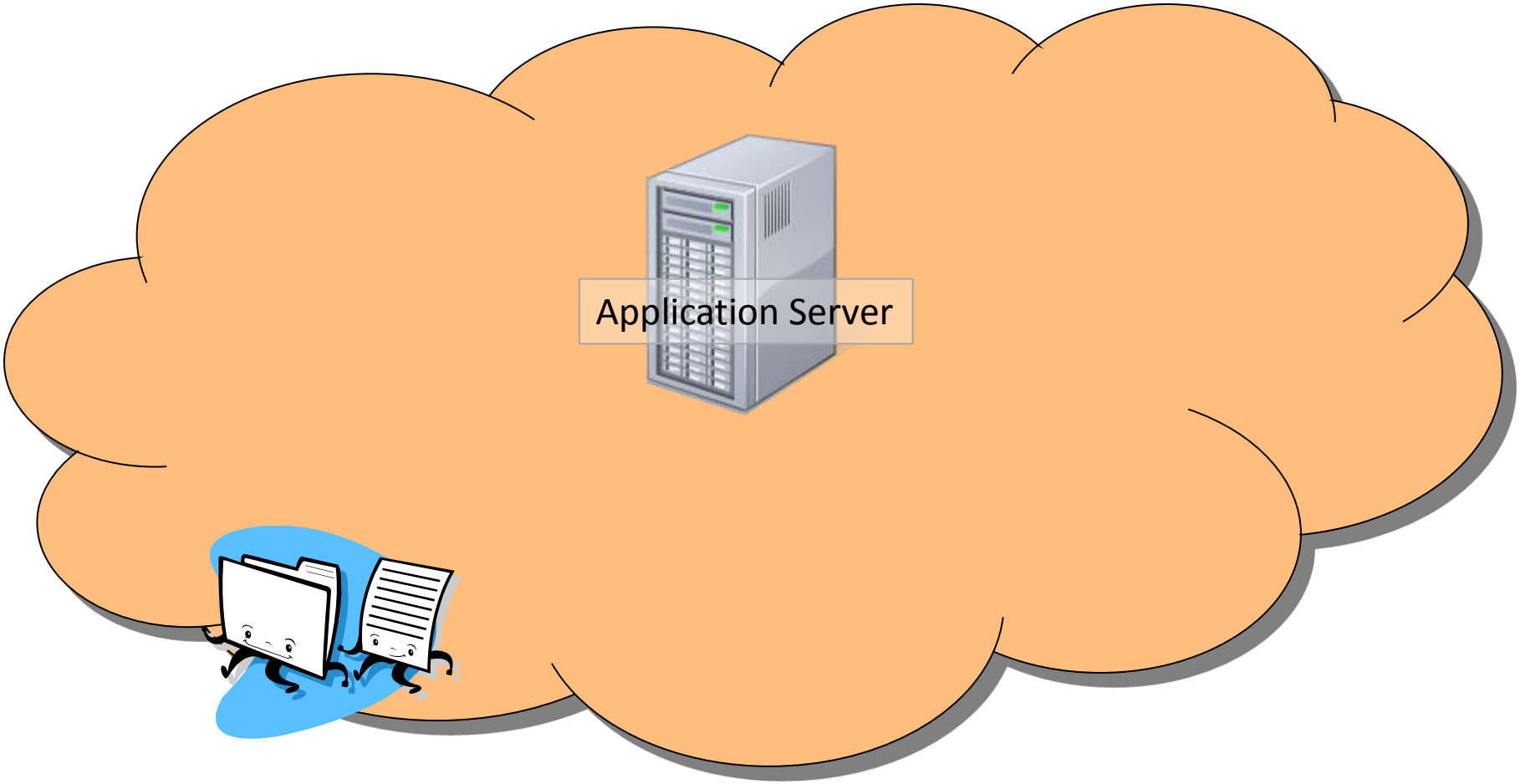
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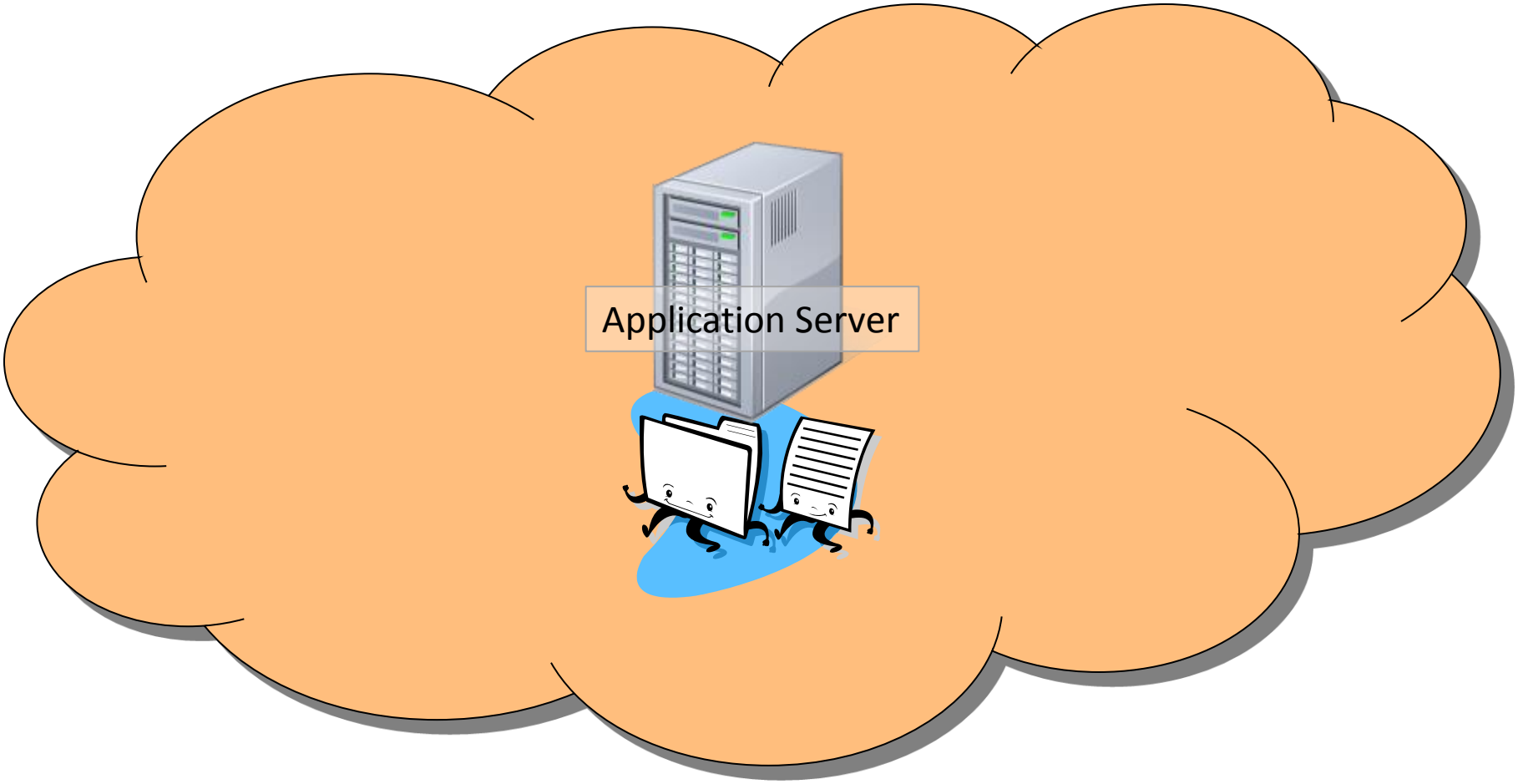
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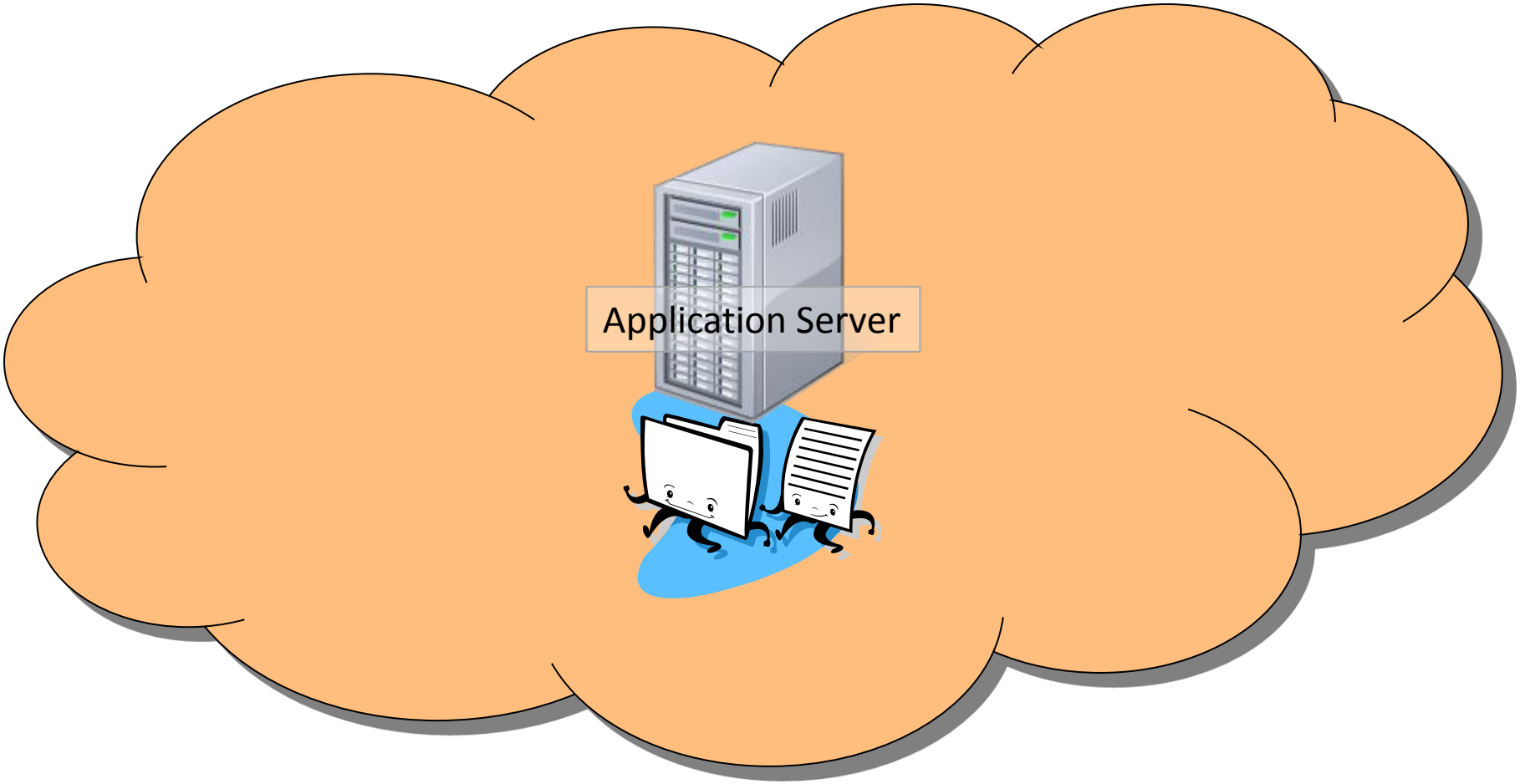
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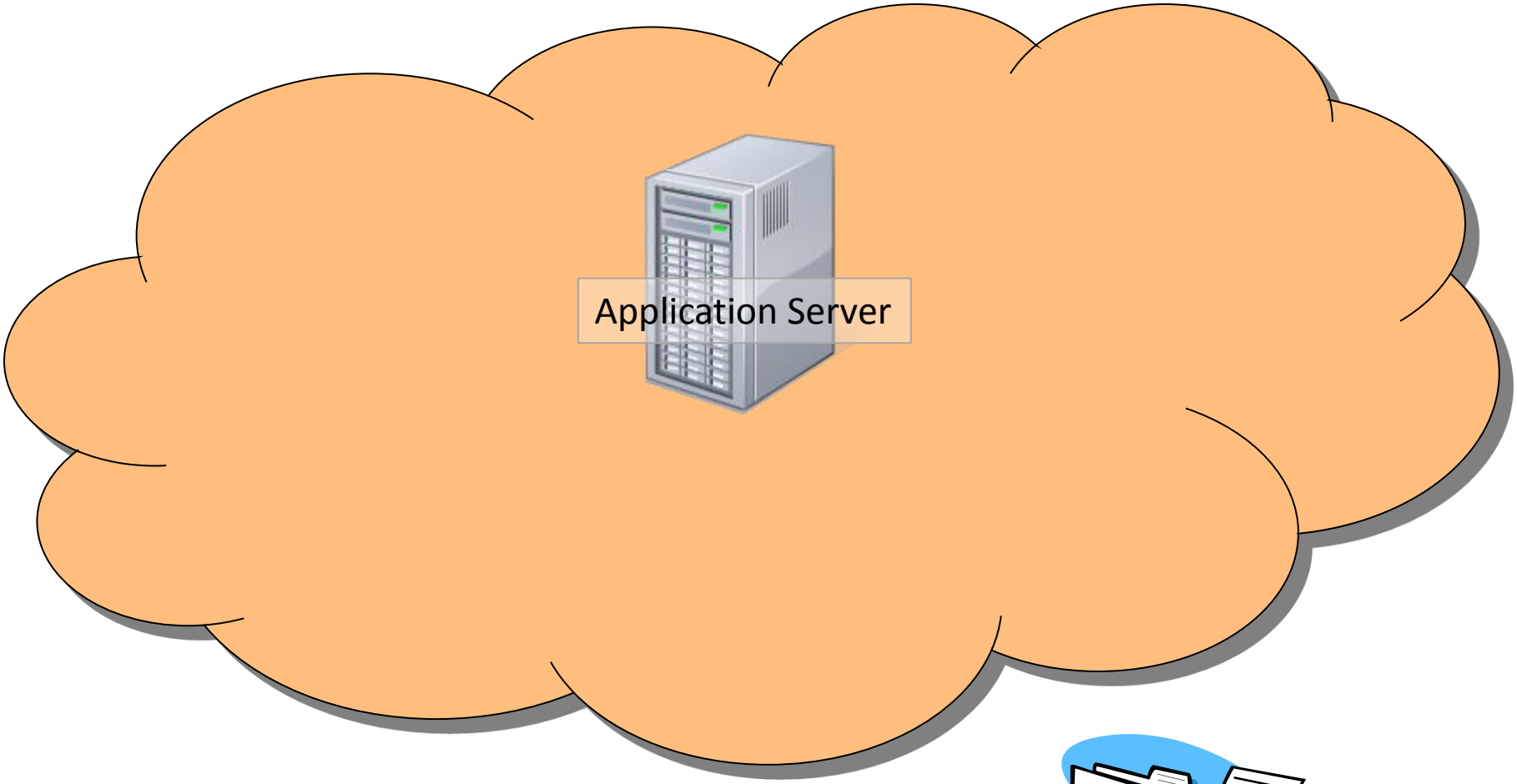
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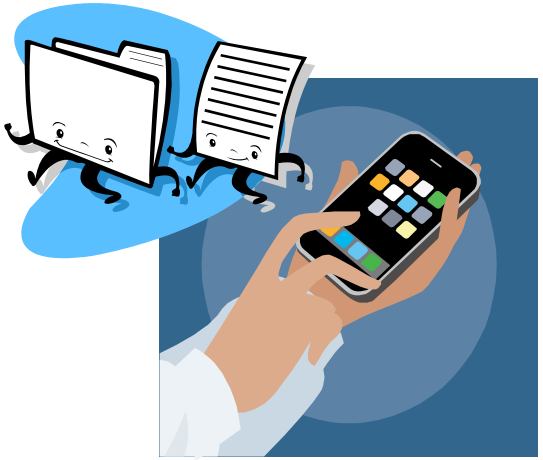

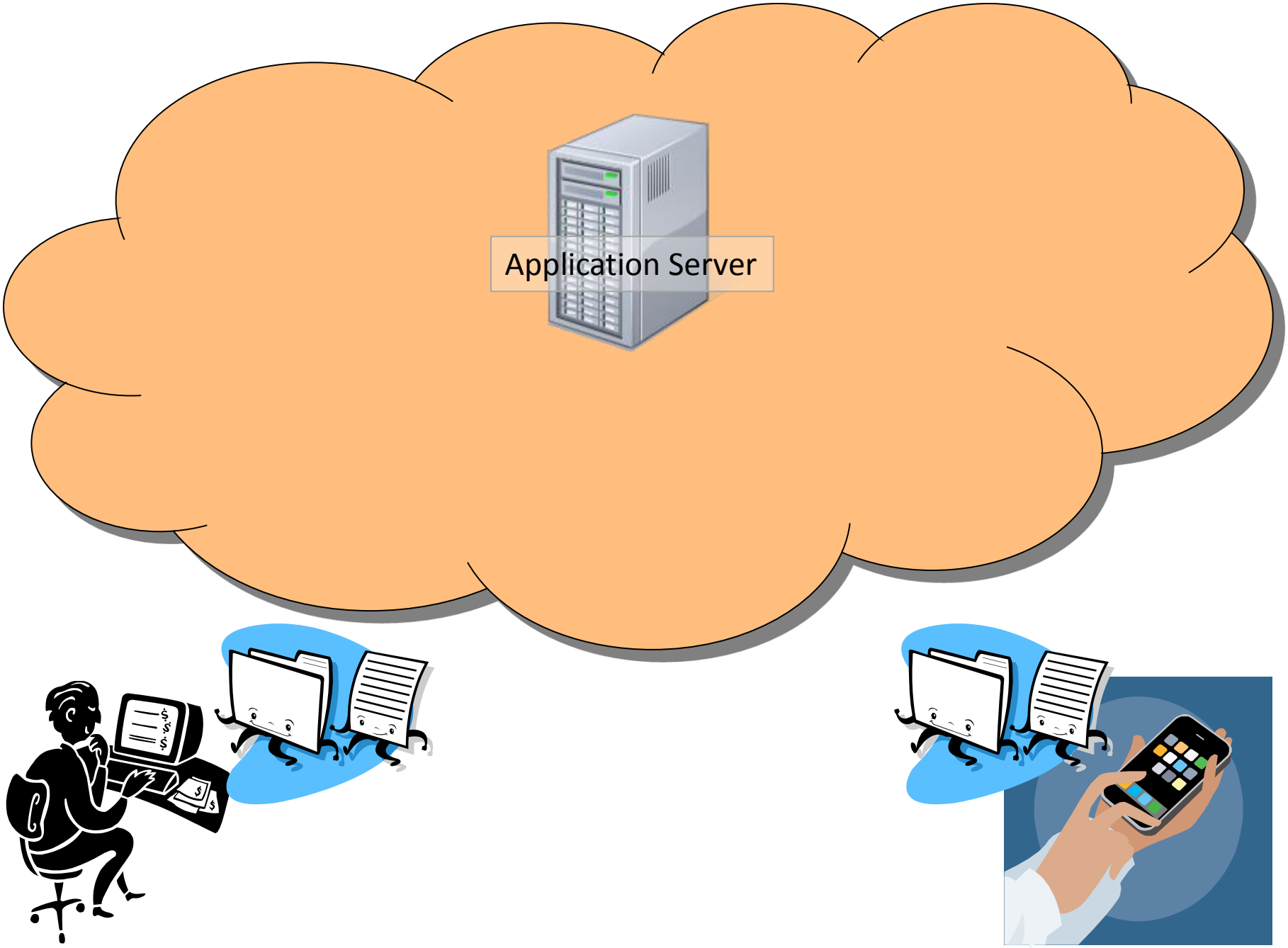
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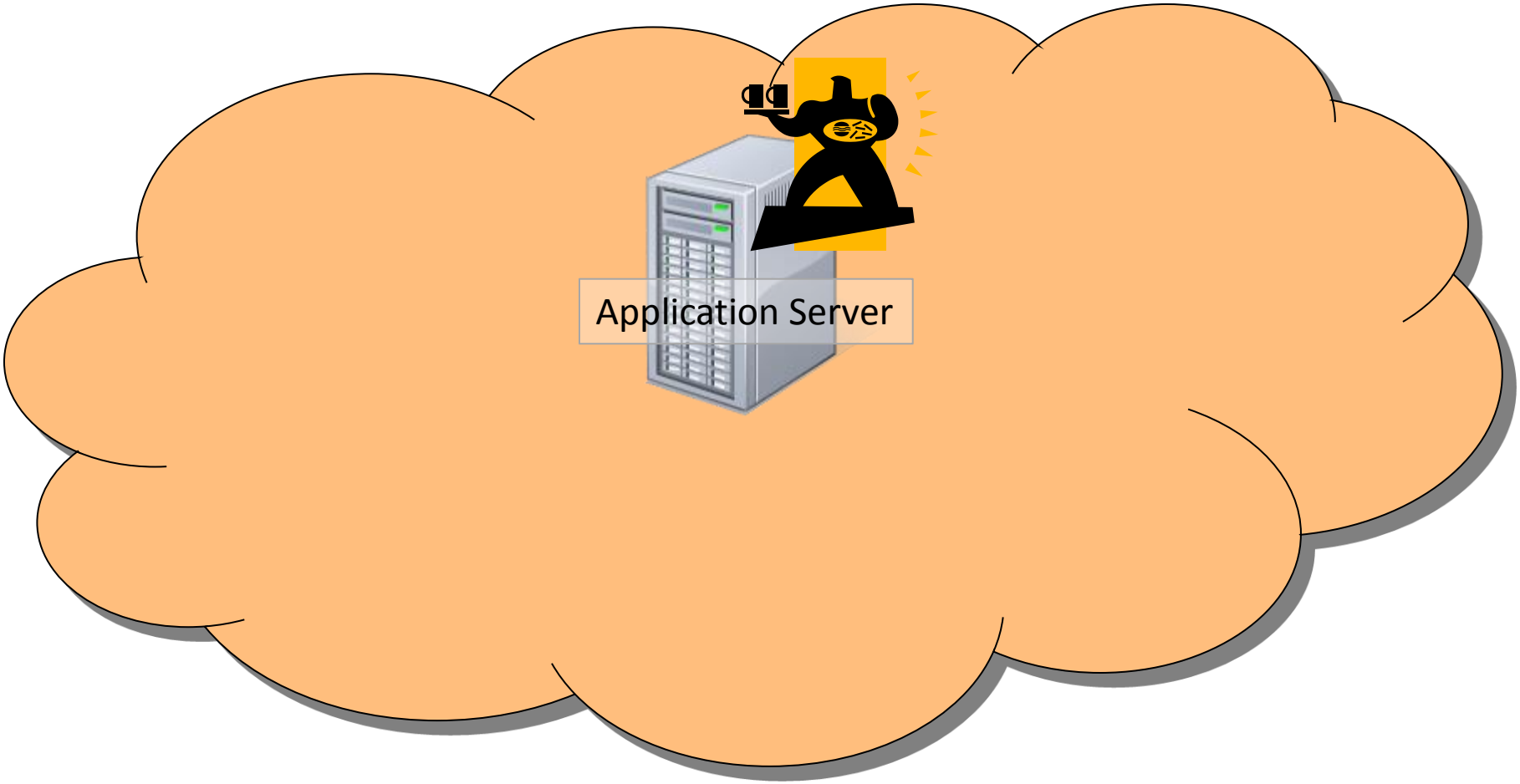
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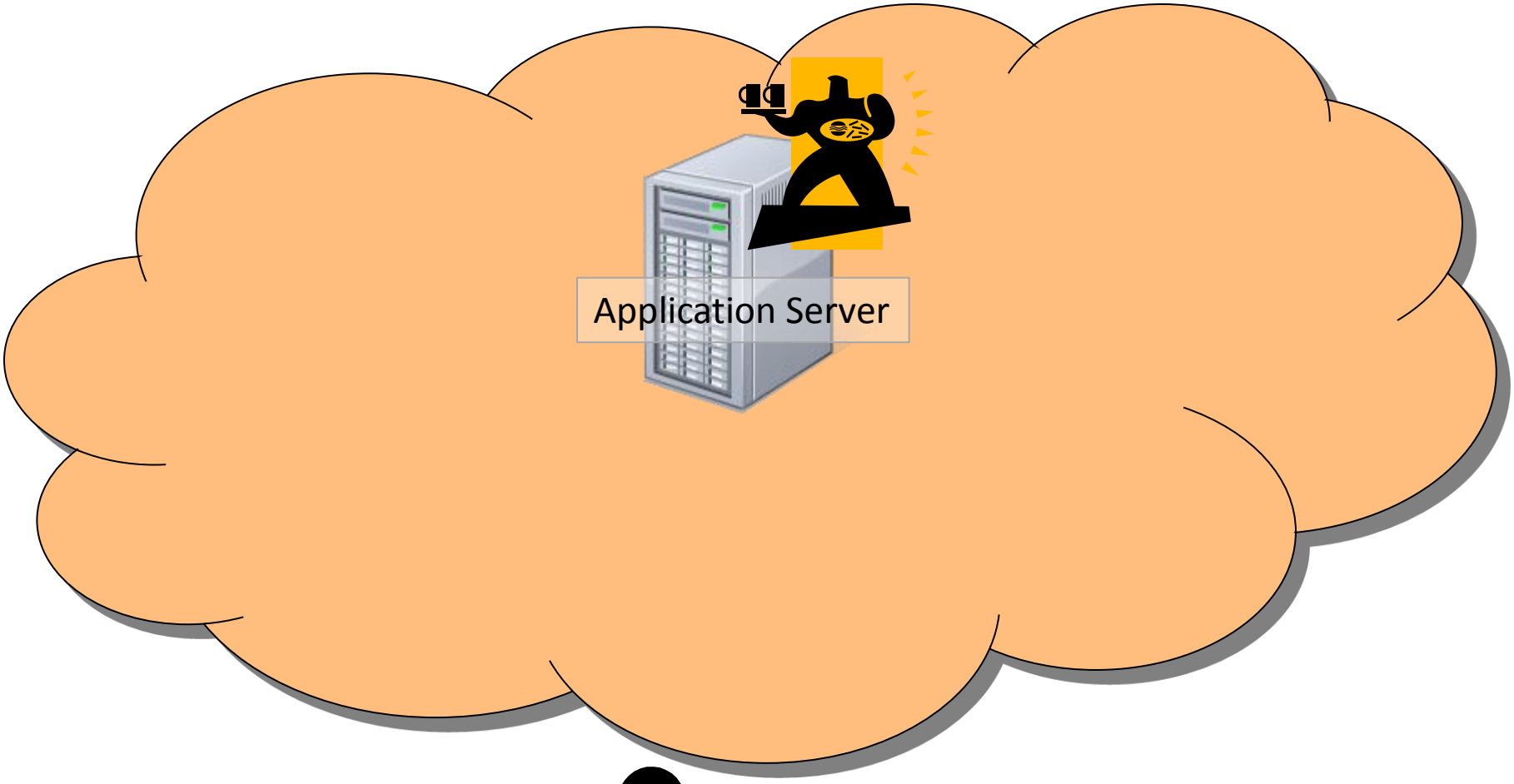
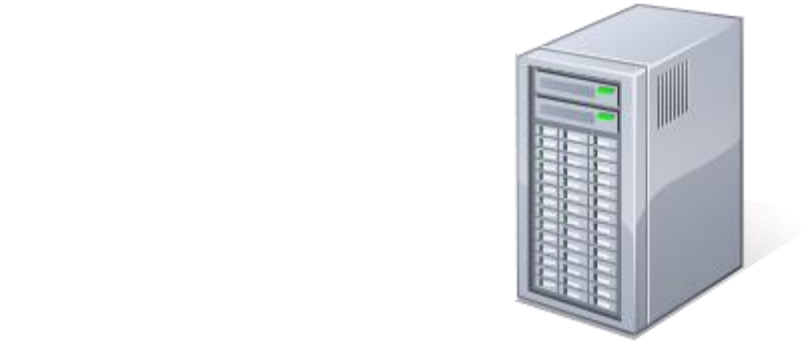

Application Server

How do we do this?

Application Server

MLS Server

MLS Server



MLS Server

Internet Standards

MLS Server

Internet Standards

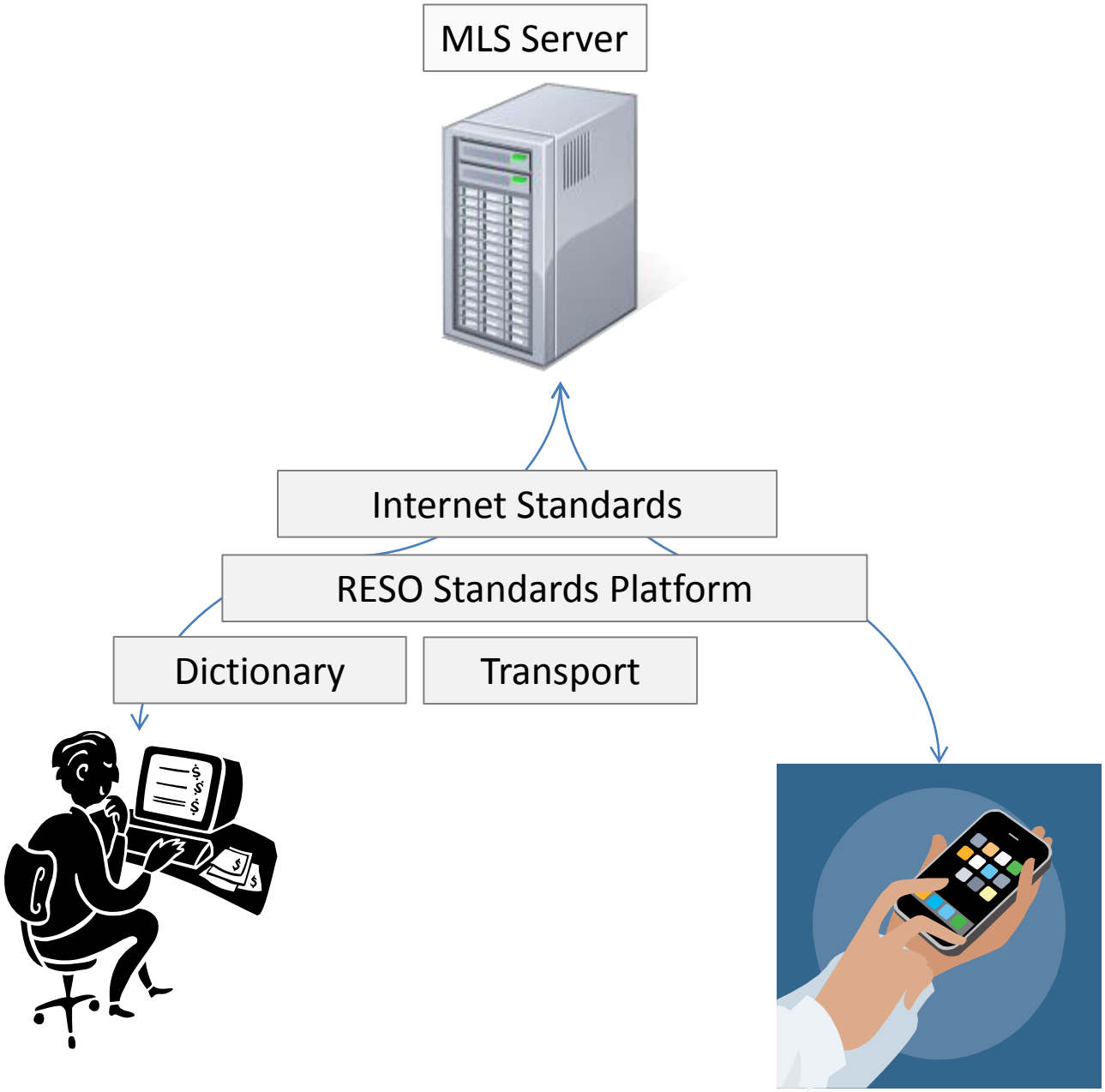
RESO Standards Platform

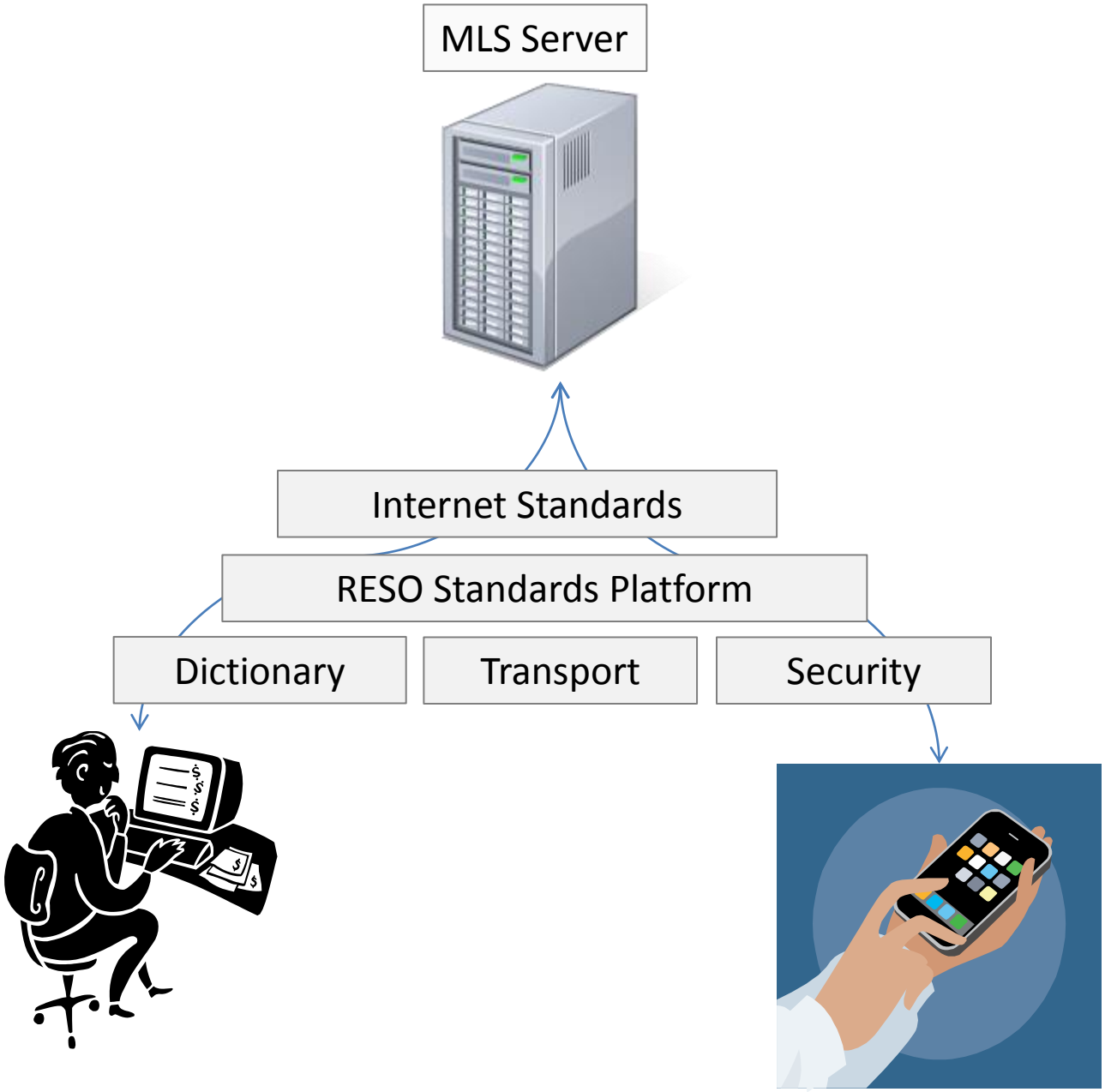
MLS Server

Internet Standards

RESO Standards Platform

Dictionary


MLS Server
Internet Standards
RESO Standards Platform
Dictionary
Transport


MLS Server
Internet Standards
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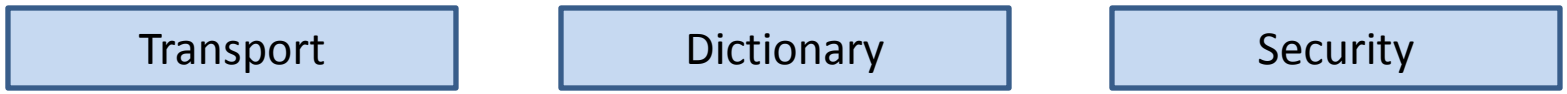
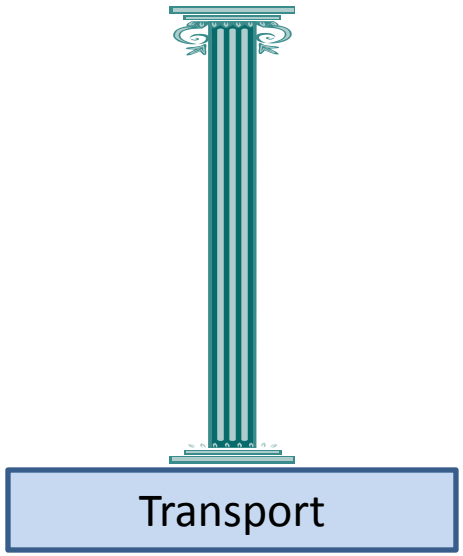
Dictionary
Transport
Security

RESO Standards Platform?


Transport
Dictionary
Security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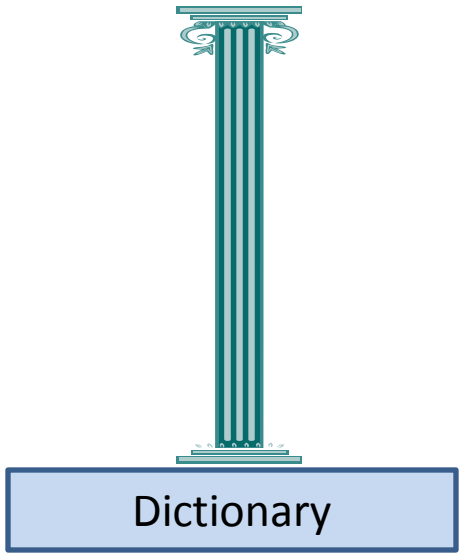
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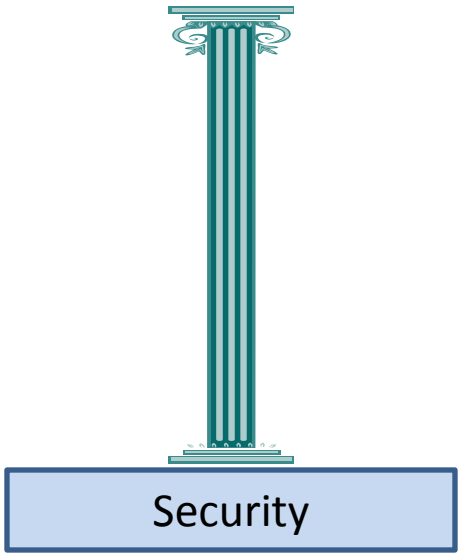
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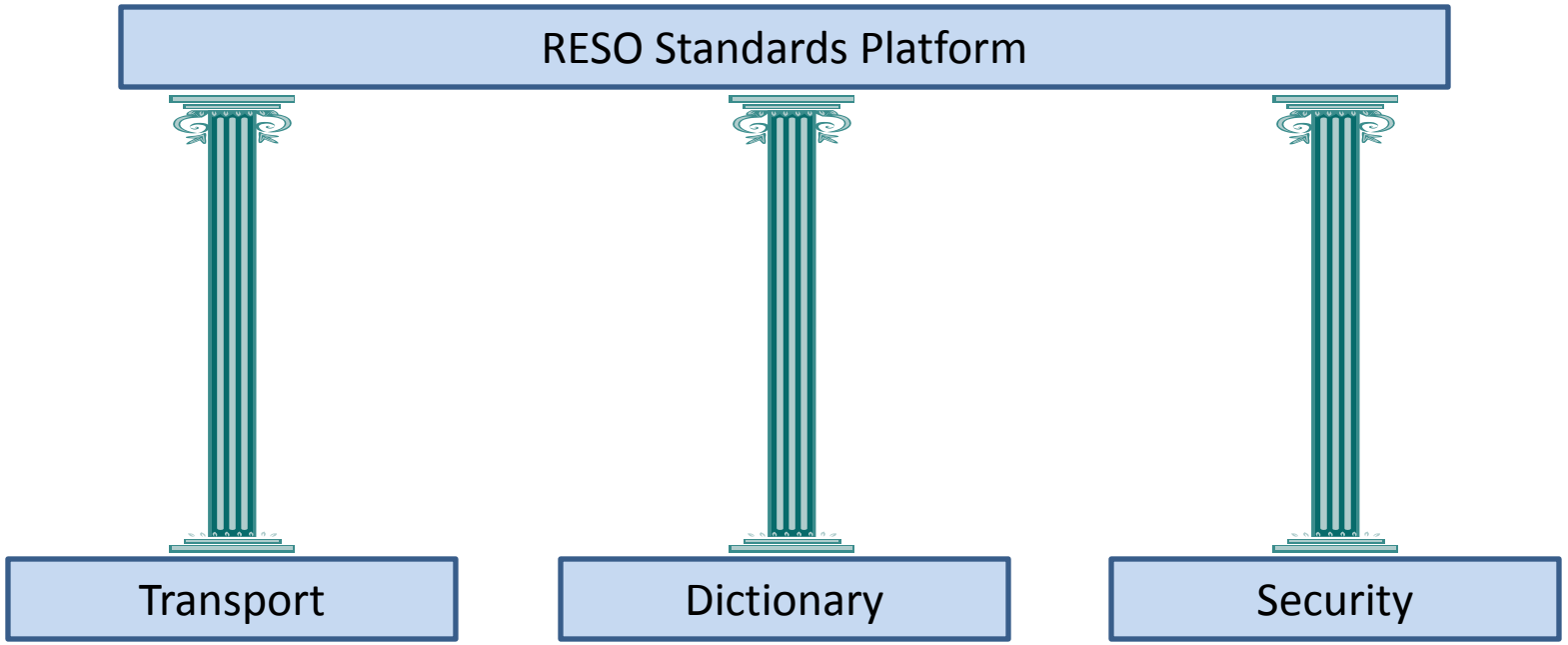
RESO Standards Platform
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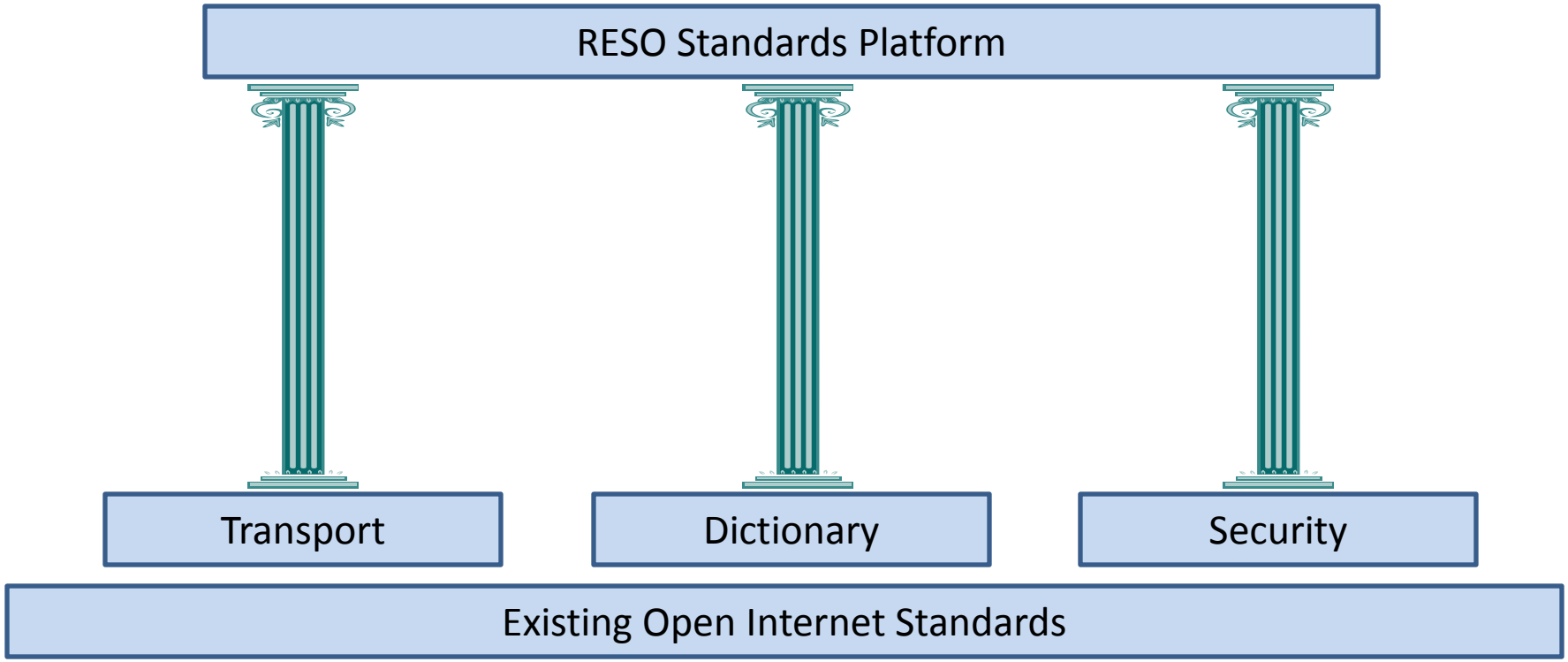
RESO Standards Platform
Transport
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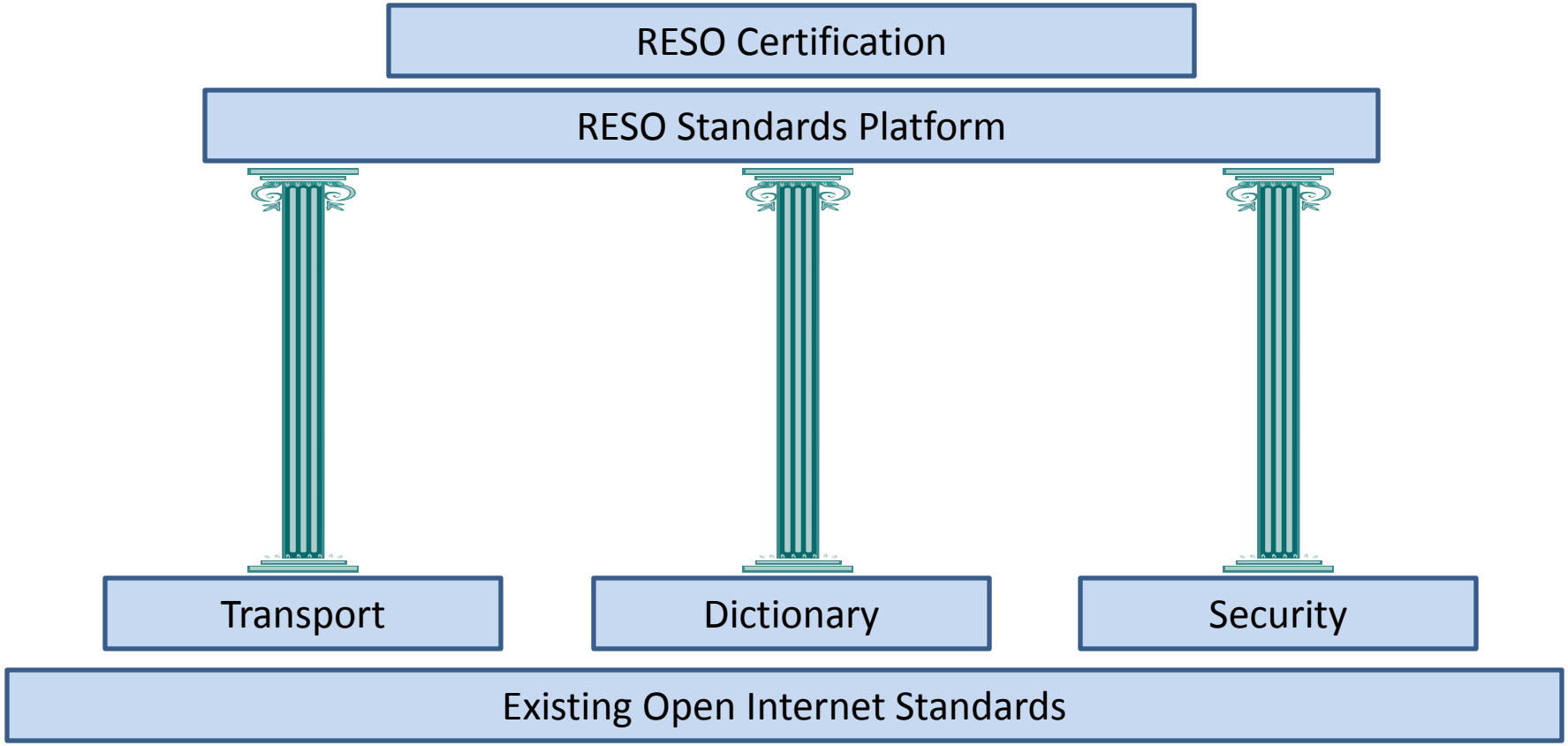
Security
Existing Open Internet Standards


RESO Certification
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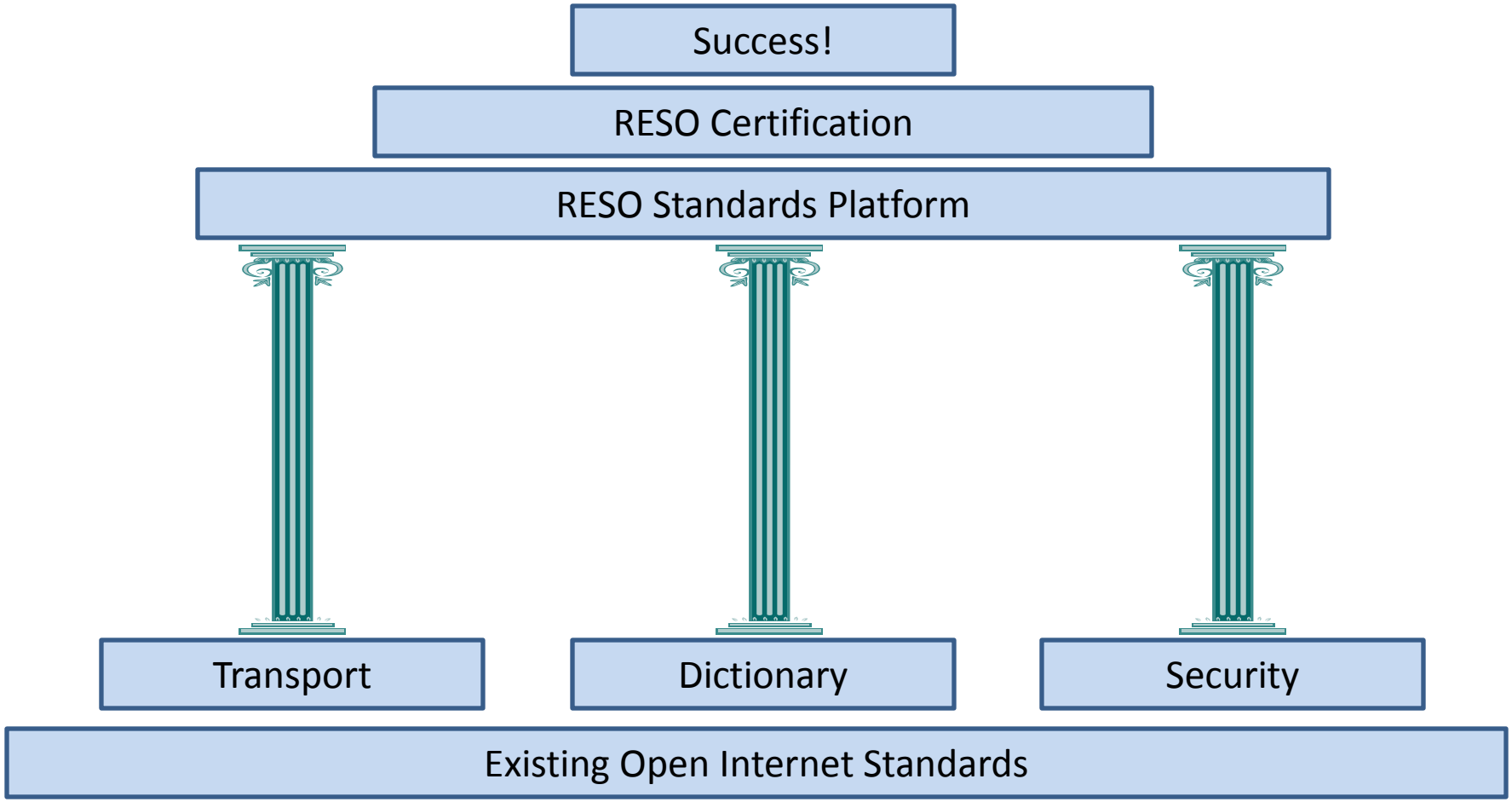
Success!
RESO Certification
RESO Standards Platform
Transport
Dictionary
Security
Existing Open Internet Standards

Process

- Research
- Review options
- Debate alternatives
- Recommend a path
- Document
- RESO review / comment
- Ratify
- Move forward

Status

- Collected ~ 60 use cases
- Compared to OData
- Established path with OData v3
- Draft documentation

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Details

- Scope – Search focus (HTTP GET)
  - Explicitly in scope in initial release:
    - Metadata Representation
    - Read Access / Standard Search
    - (Limited) Geospatial Search
    - Hypermedia Representation
  - Explicitly out of scope in this initial release will be:
    - Create, Update, Delete functionality
    - A Data Replication Framework
    - Updating Binary Media Resources
    - Saved Searches and Resources

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Details

- Resources (payloads)
  - A resource is a specific end point
  - Specific resources defined by Data Dictionary
  - Initial focus is:
    - Listings
    - Members
    - Offices
    - Media
  - Others can be added

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Details

- Specific Query Strings
  - $select – selects desired resource elements to be returned - MUST support
  - $filter – filters returned items according to filter criteria - MUST support
  - $top – designates the maximum number of matching items returned - MUST support
  - $skip – designates the number of matching items to omit before returning any items - MAY support
  - $orderby – designates the field used to order items returned - MAY support

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Details

- Operators
  - Extensive support
    - Logical – and, or, not,…
    - Equality – eq, lt, gt, ge,…
    - String – substring, startswith, endswith, …
    - Enumeration – any, all

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Details

- Geospatial Functions
  - Follows OGC specifications (simple feature)
  - Support key primitive data types
    - Points, Polygons, Multipolygons
  - Support core functions
    - geo.Distance
      - e.g. listings nearby a specific point
    - geo.Intersects
      - e.g. listings within a custom polygon

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Next Steps / Timeline

- Finalize documentation
  - End of month
- Documentation out for review
  - November
- Revisions
  - December
- Ratify
  - End of year?
- Prototype
  - Q1

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Q & A

Thank you!

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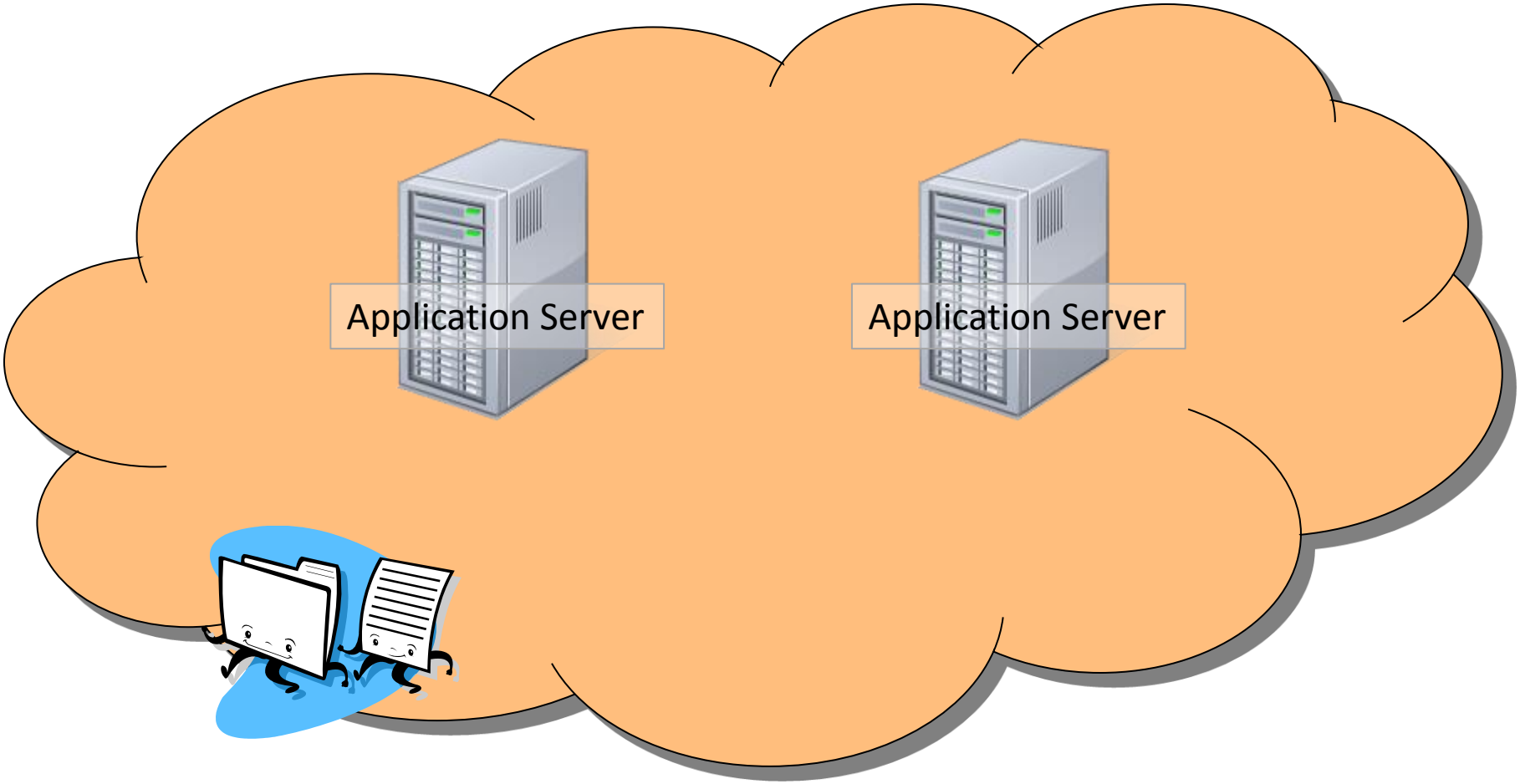
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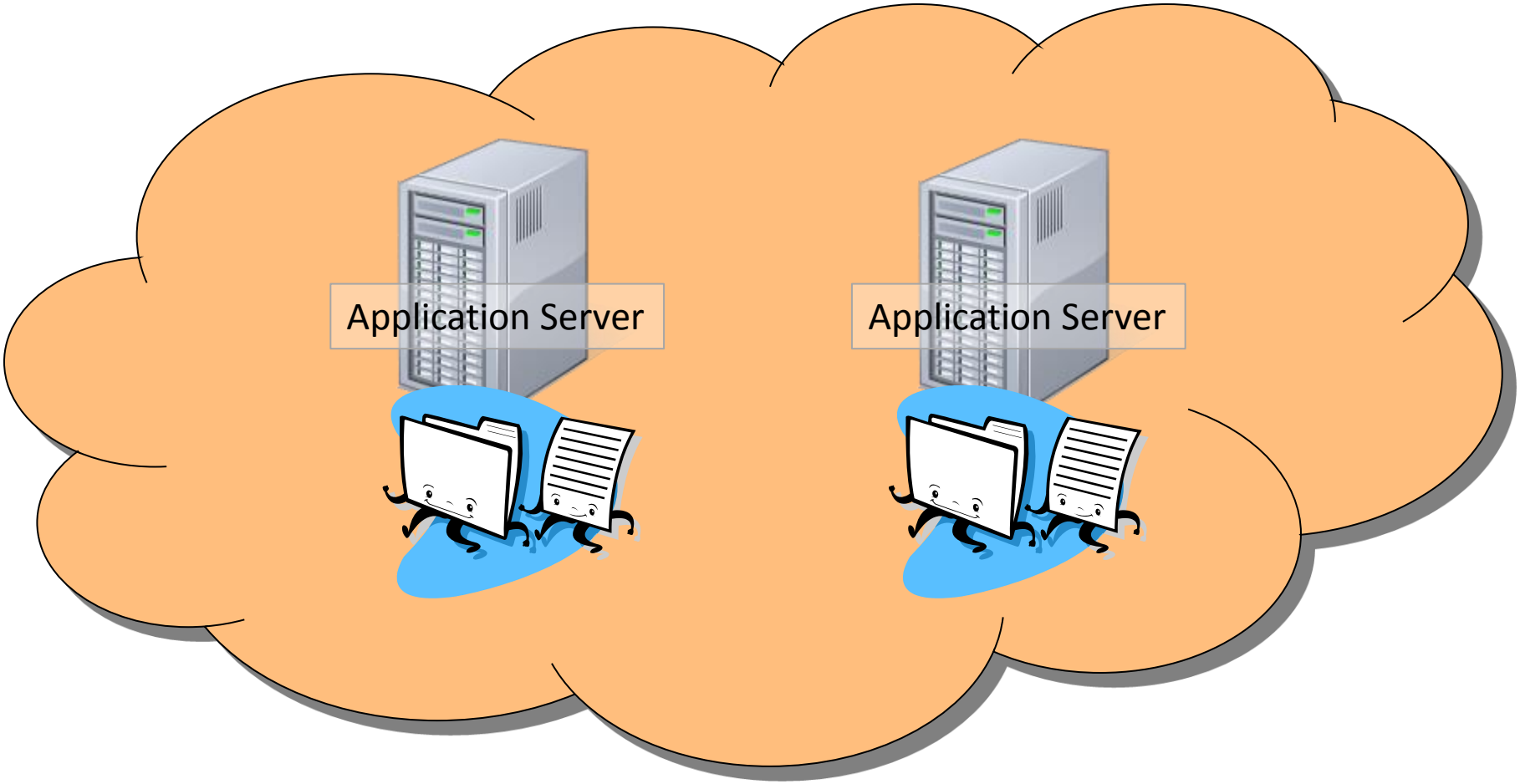
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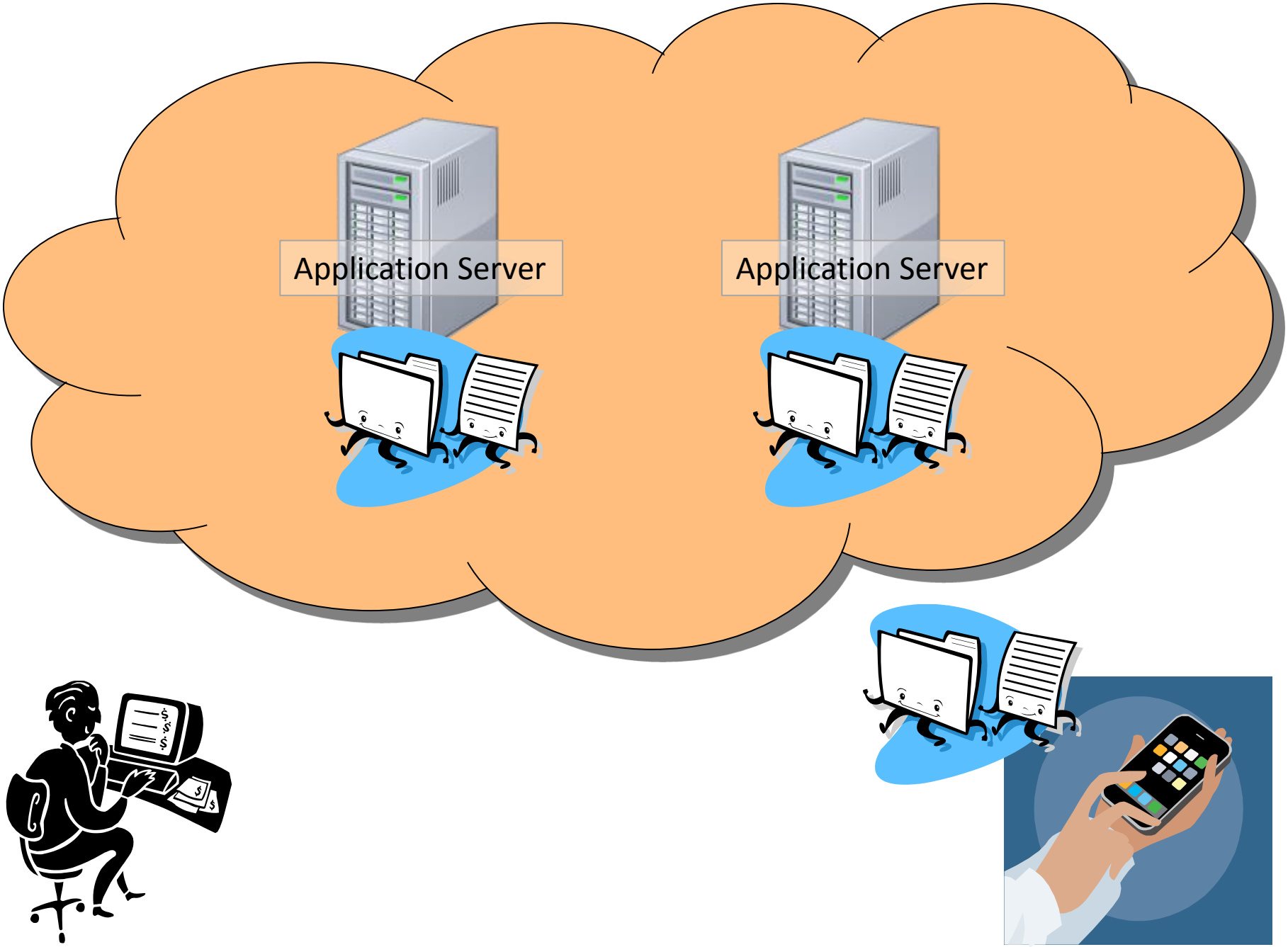
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