

TC Platform培训 – 高级应用技术 (1) —Teamcenter on Cloud

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Description

Purpose

This lesson describes cloud computing concept, and Teamcenter cloud strategy and solution.

Objectives

After you complete this lesson, you should be able to:

- Describe what's cloud computer
- Understand what is Teamcenter cloud strategy and solution.

Cloud Computing

❑ Cloud computing concept



National Institute of Standards and Technology (NIST)

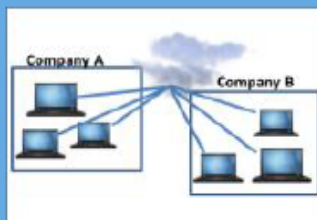
“Cloud Computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. ”

Cloud Computing

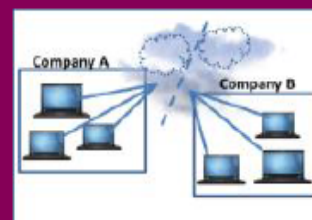
☐ 云部署模式



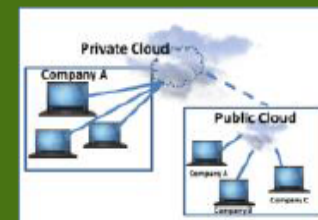
Public
Cloud



Community
Cloud



Private
Cloud



Hybrid
Cloud

Price Advantage | Access | Elasticity

Security | Specialization | SLA | Control

The cloud infrastructure is made available to the general public or a large industry group and is owned by an organization selling cloud services. Shared infrastructure and multiple users

Shared infrastructure and applications, multiple organizations with same security risk profile, similar business model and interest. may be managed by the organizations or a third party.

The cloud infrastructure is operated solely for an organization. It may be managed by the organization or a third party.

The cloud infrastructure is a composition of two or more clouds (private, community, or public) that remain unique entities but are bound together by standardized or proprietary technology that enables data and application portability

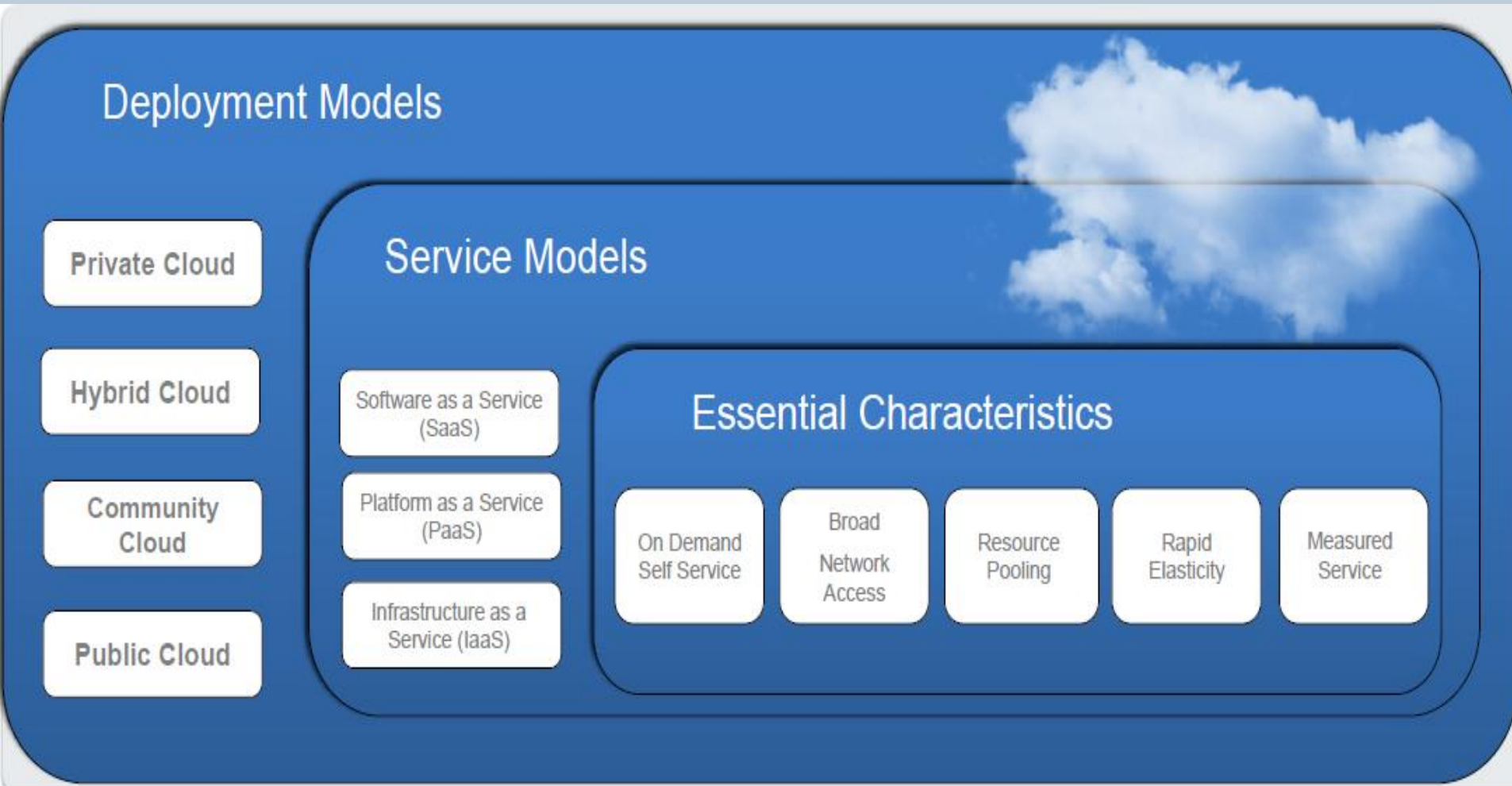
On Cloud Provider Premise

On Premise or Off Premise

On Premise or Off Premise

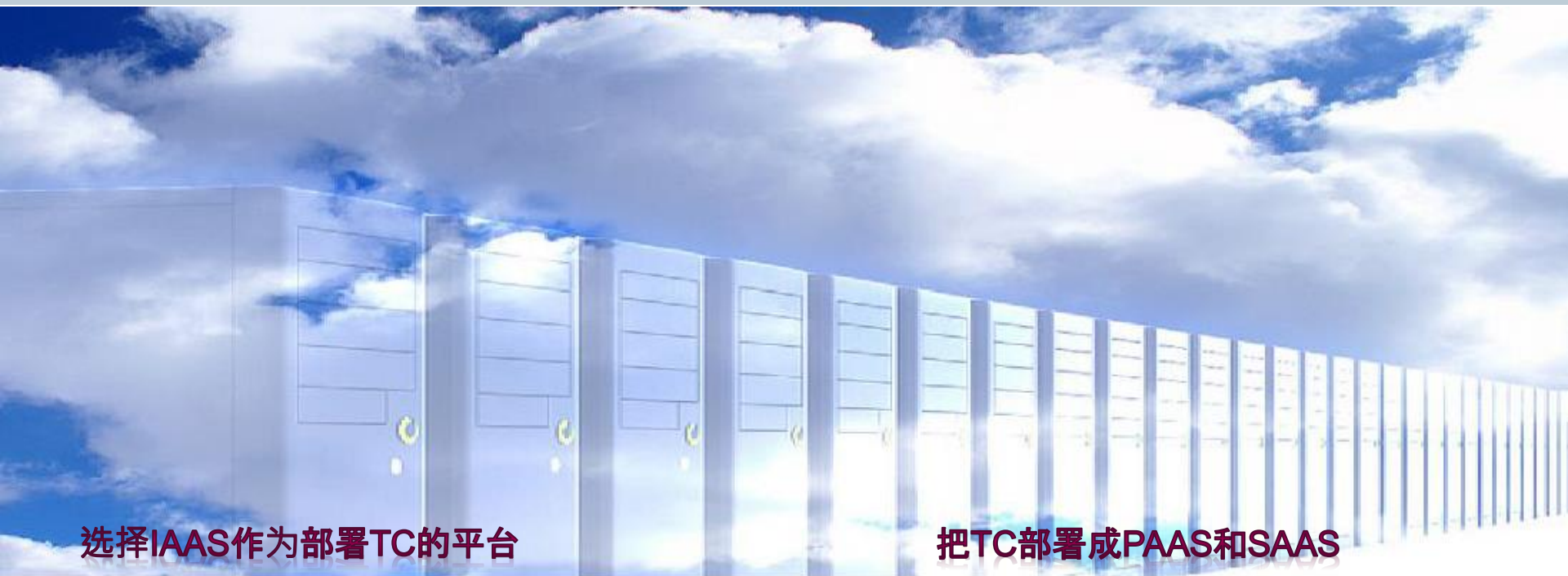
Cloud Computing

☐ 云环境布置



Teamcenter Cloud Strategy

□ 云服务策略



选择IAAS作为部署TC的平台

把TC部署成PAAS和SAAS

2011 Operational Strategy

- Extending Teamcenter (and other SPLM Software) Platform of Choice to IaaS
 - Certifications, Standard Architectures, Best Practices
 - Automation
 - Centralized Administration
 - Partner Hosting
 - Support for Additional Licensing Models

Directional Strategy

Extending SPLM Products to PaaS and SaaS

- Application patterns
- New Business Models
- 2013 Extension of Capability for Existing Applications
- 2014 Launching New Applications

Teamcenter Cloud Strategy

□ 供应商选择



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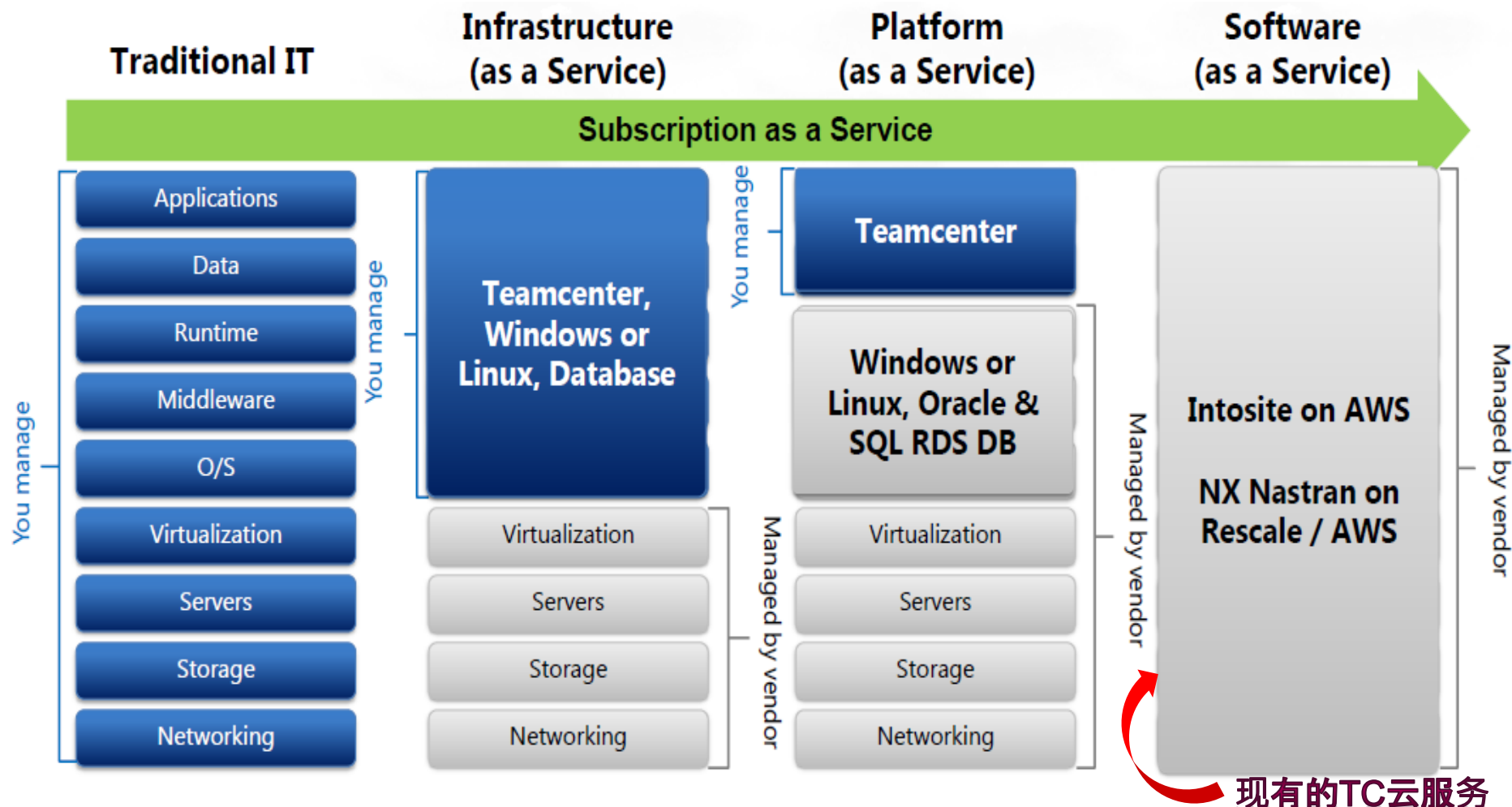
3 New Platforms of Choice



Certified and Ready for Deployment

Teamcenter Cloud Strategy

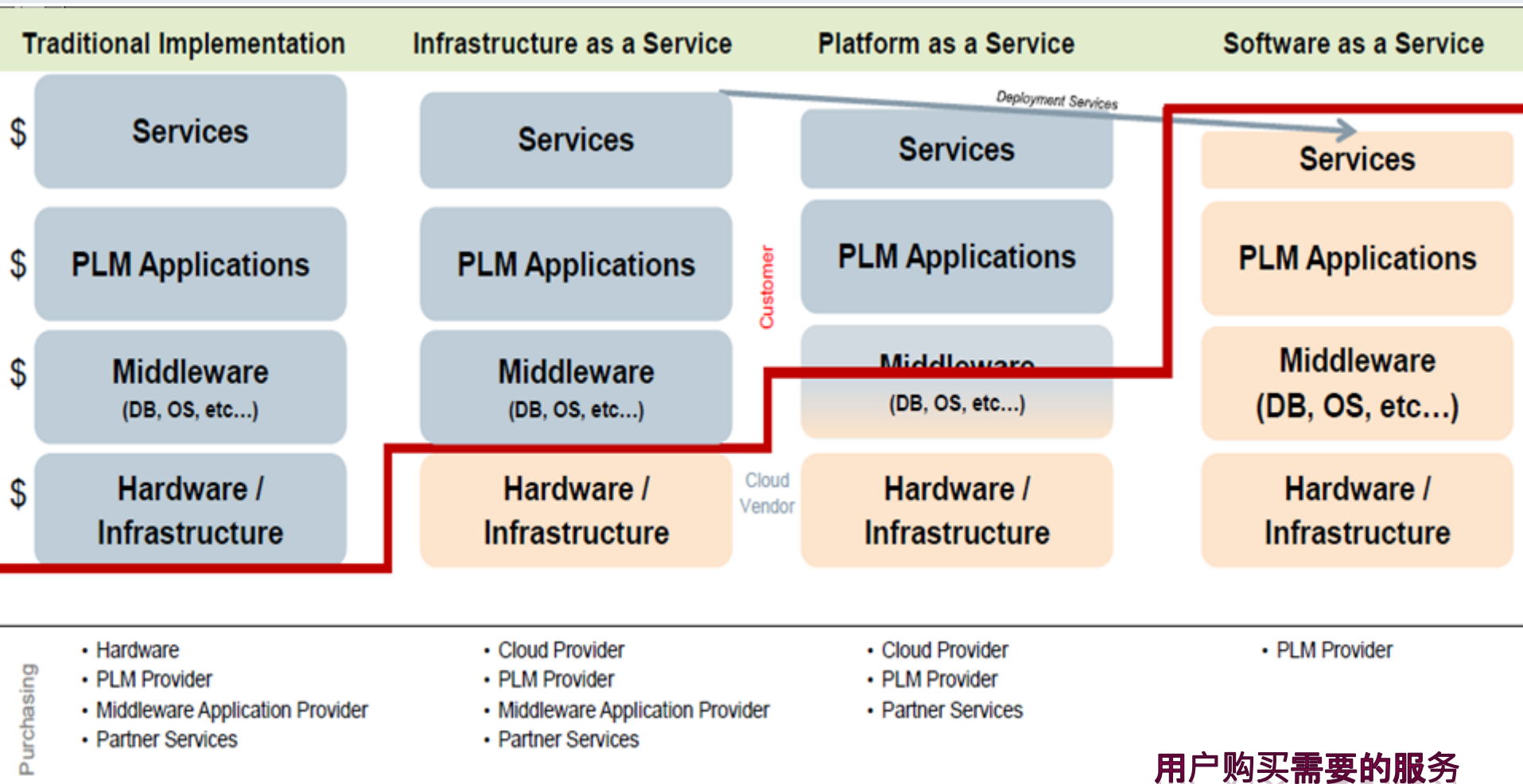
☐ 云服务类型



现有的TC云服务

Teamcenter Cloud Strategy

☐ 云服务用户价值



用户购买需要的服务

Teamcenter Cloud Strategy

☐ TC on Cloud Today

Teamcenter

- Teamcenter 9.1.2.1 and later
- Teamcenter Rapid Start
- Electronics and Semiconductor Catalyst for Teamcenter
- 3D Rendering on the Cloud
- Active Workspace
- **ATOS** Supplier Connect

NX Nastran

- New Partnership **Rescale** to provide customer the ability to run NX Nastran on the Cloud

Tecnomatix

- EWI -Electronic Work Instruction v1.0 (EWI) Browser
- Intosite

Virtualized Desktops

- Under development

可部署在云上的TEAMCENTER产品

Teamcenter Cloud Strategy

❑ NX Nastran available in the cloud with Rescale

NX
NASTRAN



应用功能 NX Nastran customers can now use Rescale to build, compute, and analyze simulations in the cloud

应用模式 Customers can access best-in-class high-performance computing clusters with pay-as-you-go pricing

成本考虑 This partnership helps eliminate large capital costs usually associated with setting up large clusters

竞争策略 Strategic move puts NX Nastran ahead of competitors and provides customers more usage options

RESCALE提供NX NASTRAN云服务



□ Teamcenter Cloud Strategy

InfoSite

IntoSite is a **cloud based web application** that enables 3D navigation through **production sites** and provides **simple access** and **sharing** of **Digital Manufacturing** and **Production info** in 3D context.

Siemens Digital Factory

IntoSite

Google Earth

- Siemens hosted SaaS application
- Each company will have their own area in the IntoSite site (multi-tenancy)

Benefits for customers:

- Easy to Deploy
No server hardware or installation required
Client only needs Google earth plugin
- Always up to date software version

➤ 是西门子在云上部署的WEB应用。

➤ 共享数字化工厂和生产3D信息。

➤ 完成生产基地间的3D导航。

西门子提供INFOSITE云服务

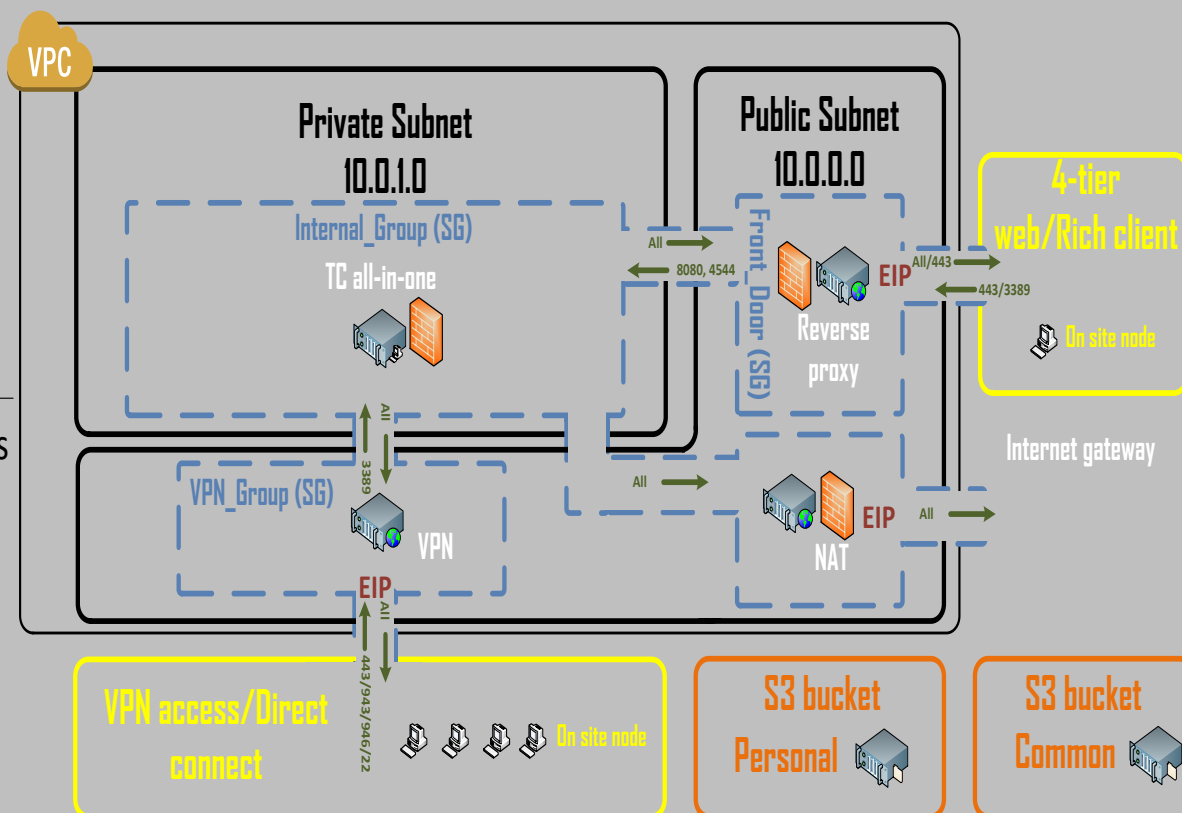
Teamcenter Cloud Solution

TC Solution on AWS

Amazon Web Services (AWS)

Key

- Virtual private cloud subnets
- - - Security groups
- ↔ Security group port rules
- EIP related
- Server role
- On premise
- S3 Storage



Teamcenter Cloud Solution

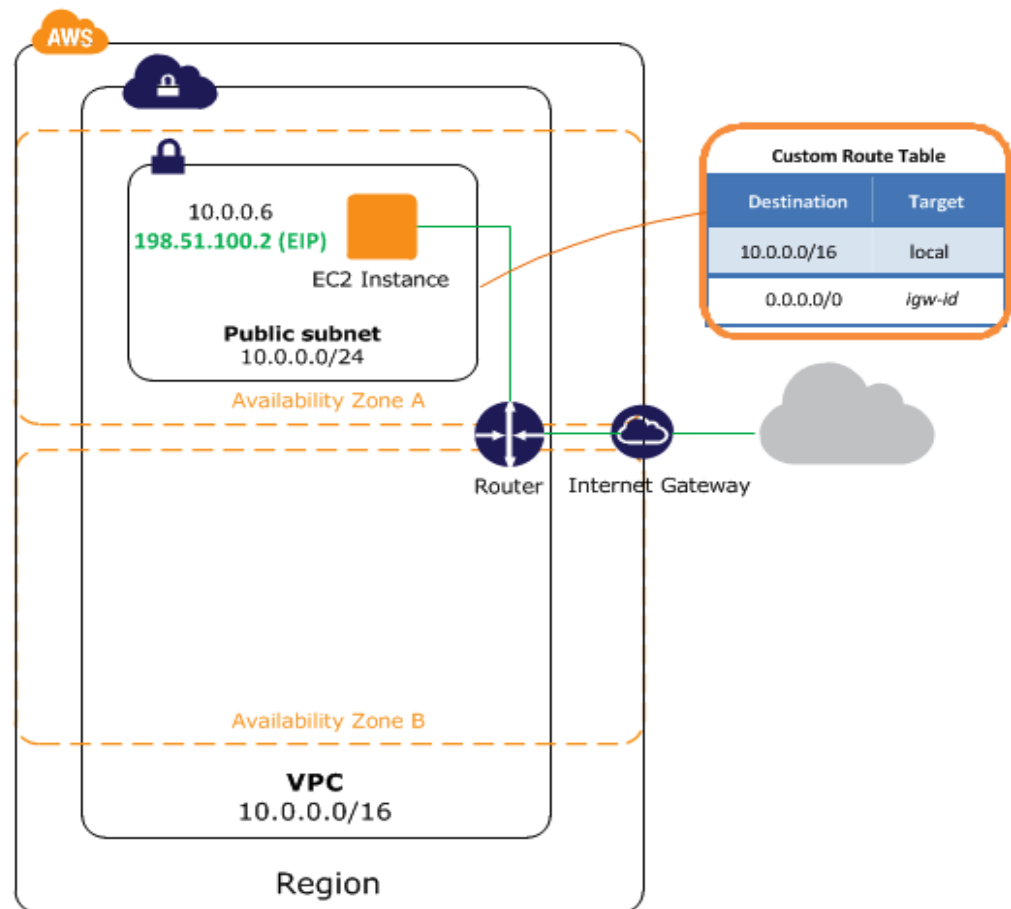
❑ VPC with a Public Subnet Only

Configuration

- A virtual private cloud (VPC) with a single public subnet, and an Internet gateway to enable communication over the Internet.

Recommended Application:

- A single-tier, public-facing web application, such as a blog or a simple website.



浦鎮布置TC APP SHARE可为供应商提供LIVE MEETING服务

Teamcenter Cloud Solution

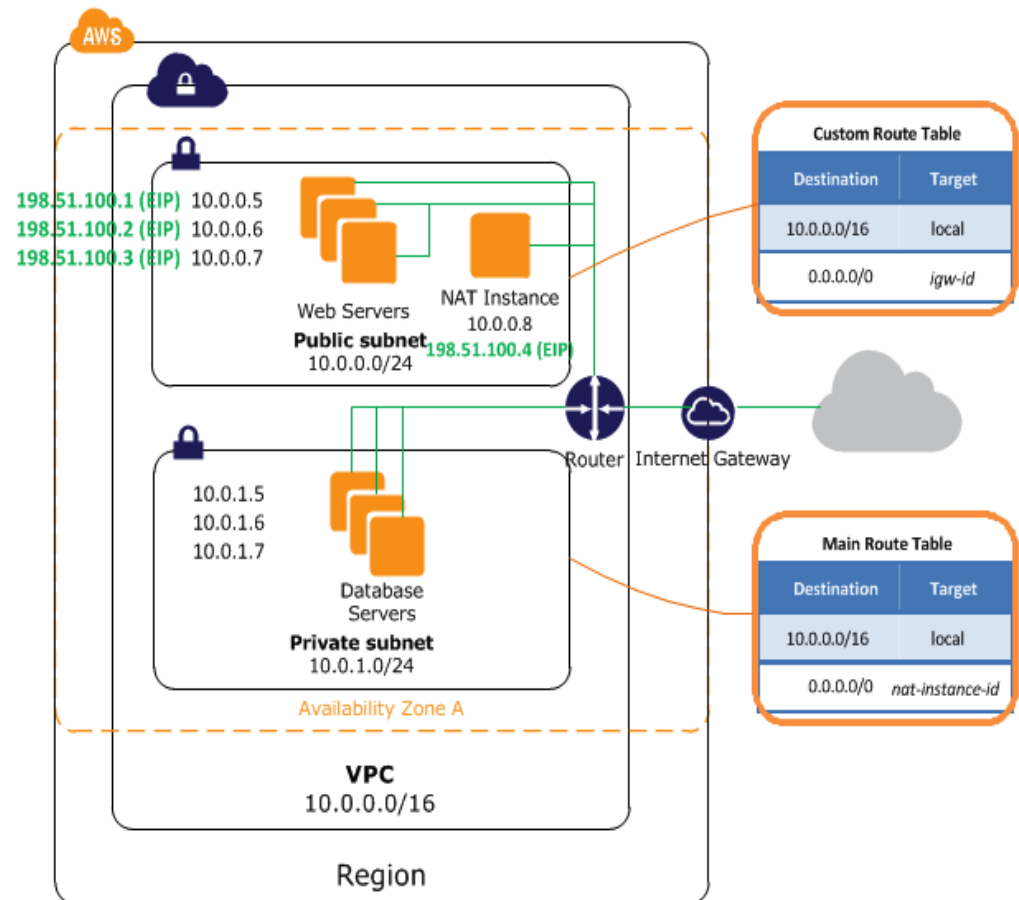
❑ VPC with Public & Private Subnets

Configuration:

- A virtual private cloud (VPC) with a public subnet and a private subnet.

Recommended Application:

- A public-facing web application, while maintaining back-end servers that aren't publicly accessible. A common example is Web server in public and database server in private.



浦鎮构建一个独立的供应商协作平台系统

Teamcenter Cloud Solution

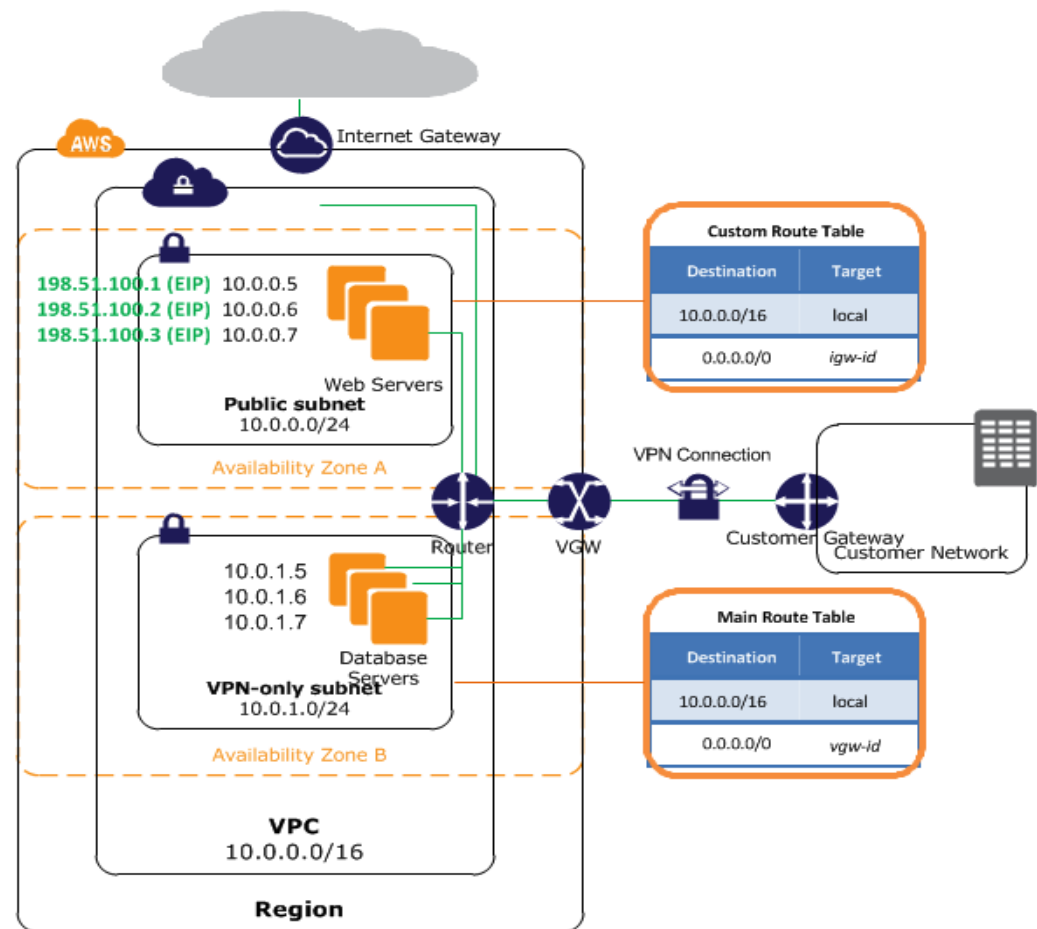
❑ VPC with Public & Private Subnets and Hardware VPN Access

Configuration:

- A virtual private cloud (VPC) with a public subnet and a private subnet.
- A virtual private gateway to enable communication with your own network over an VPN tunnel.

Recommended Application:

- Extend your network into cloud and also directly access the Internet from your VPC.
- A multi-tiered application with a front end in a public subnet, and to house data in a private subnet that is connected to your network thru by a VPN connection.



浦鎮构建一个独立的供应商协作平台系统, 并访问浦内部的数据中心 (如ERP)

Teamcenter Cloud Solution

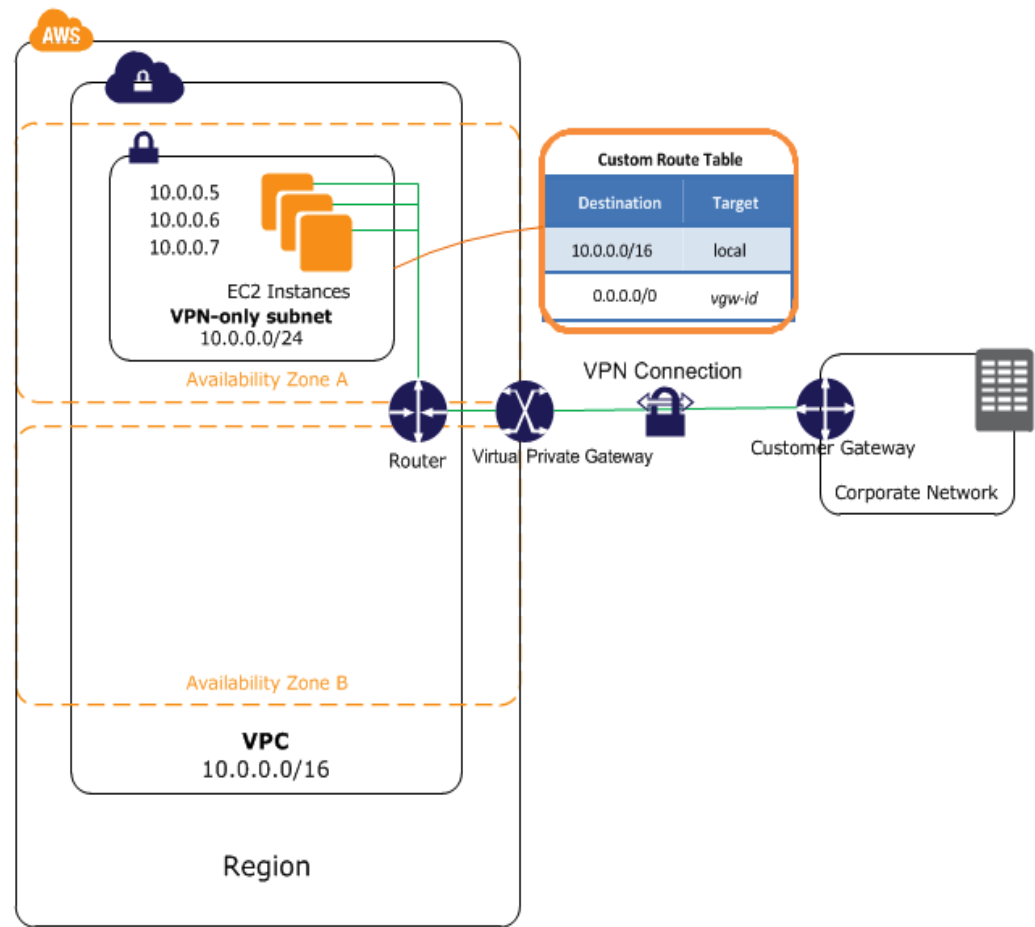
❑ VPC with Private Subnets and Hardware VPN Access

Configuration:

- A virtual private cloud (VPC) with a single private subnet, and a virtual private gateway to enable communication with your own network over an VPN tunnel.

Recommended Application:

- Extend your network into the cloud using AWS infrastructure without exposing your network to the Internet.



浦鎮利用云拓宽自己的TEAMCENTER系统

Teamcenter Cloud Solution

File System on the Cloud



Main Deployment Centrally Located
File Cache Server in Regions across the Globe
Users around the Globe

在各个数据中心布置文件服务器或文件缓存服务器，将提供系统整体性能。

Activities

- ☐ In this section of the activities, there is no activity for practice.

Summary

- ❑ The following topics were taught and practiced in this session.
 - Cloud computing concept.
 - Teamcenter Cloud Strategy
 - Teamcenter Cloud solution.



Thank you!

Learn and grow with our customers every day!