

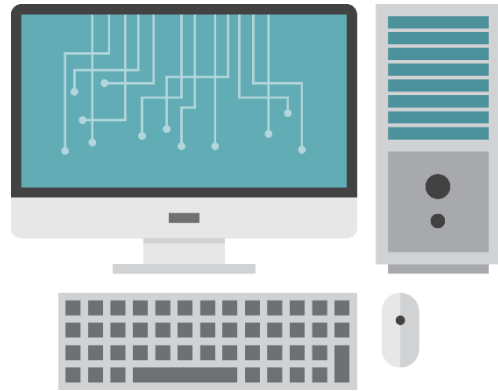
Install Domain Controllers



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What This Module Covers



Add or Remove a Domain Controller from a Domain

Install a Domain Controller from Install from Media (IFM)

Install Active Directory Domain Services (AD DS) on Server Core

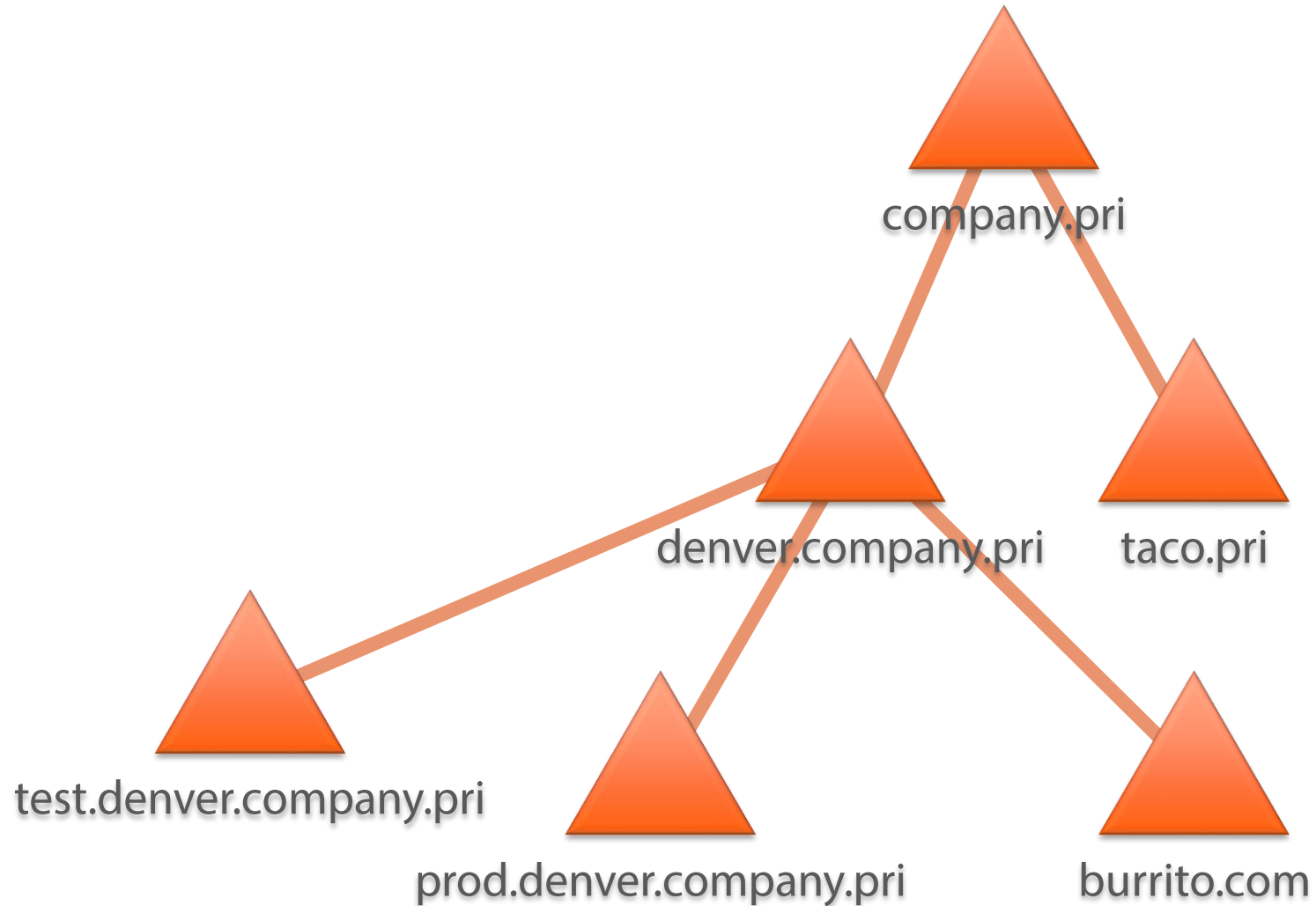
Upgrade a Domain Controller

Resolve DNS SRV Record Registration Issues

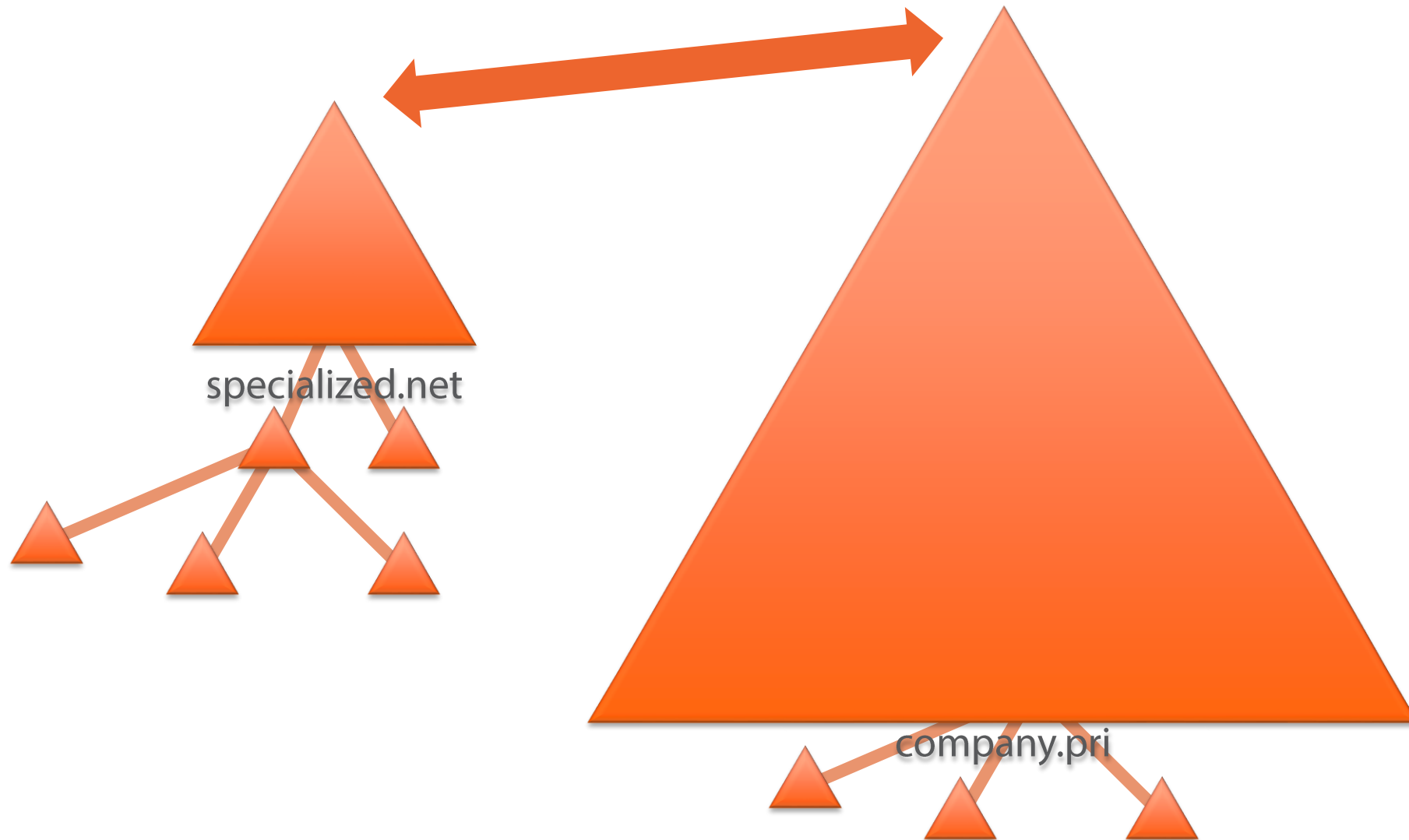
Configure a Global Catalog Server

Deploy Active Directory IaaS in Microsoft Azure

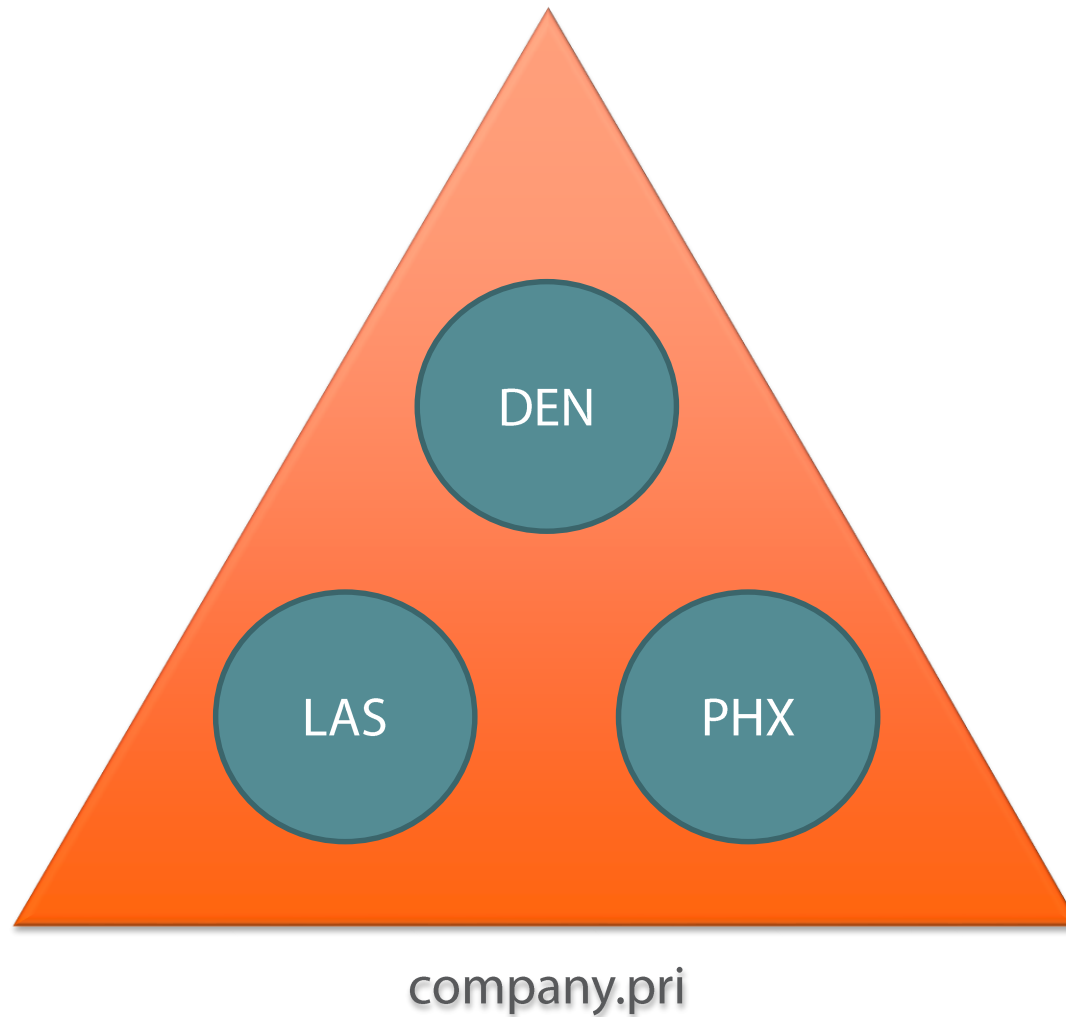
Active Directory Domains



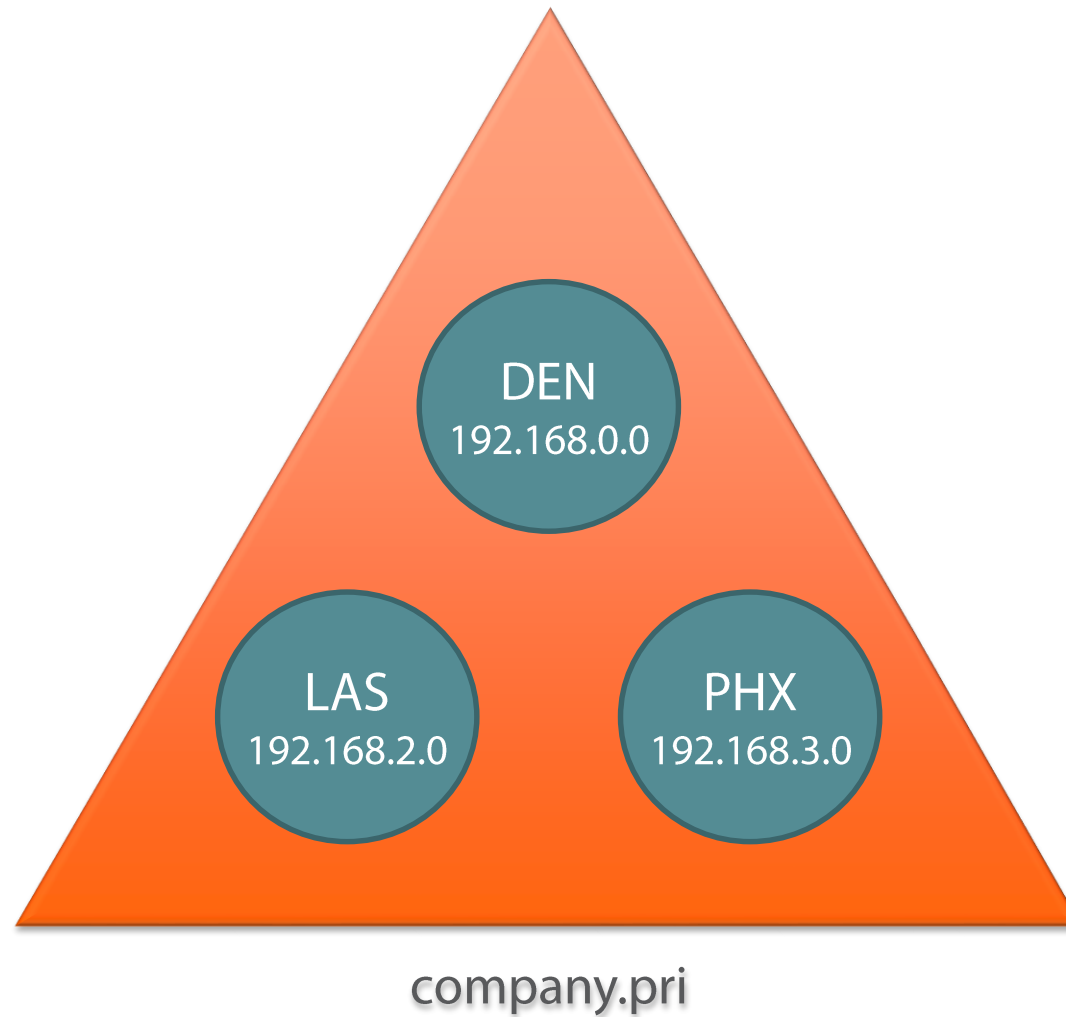
Active Directory Forests



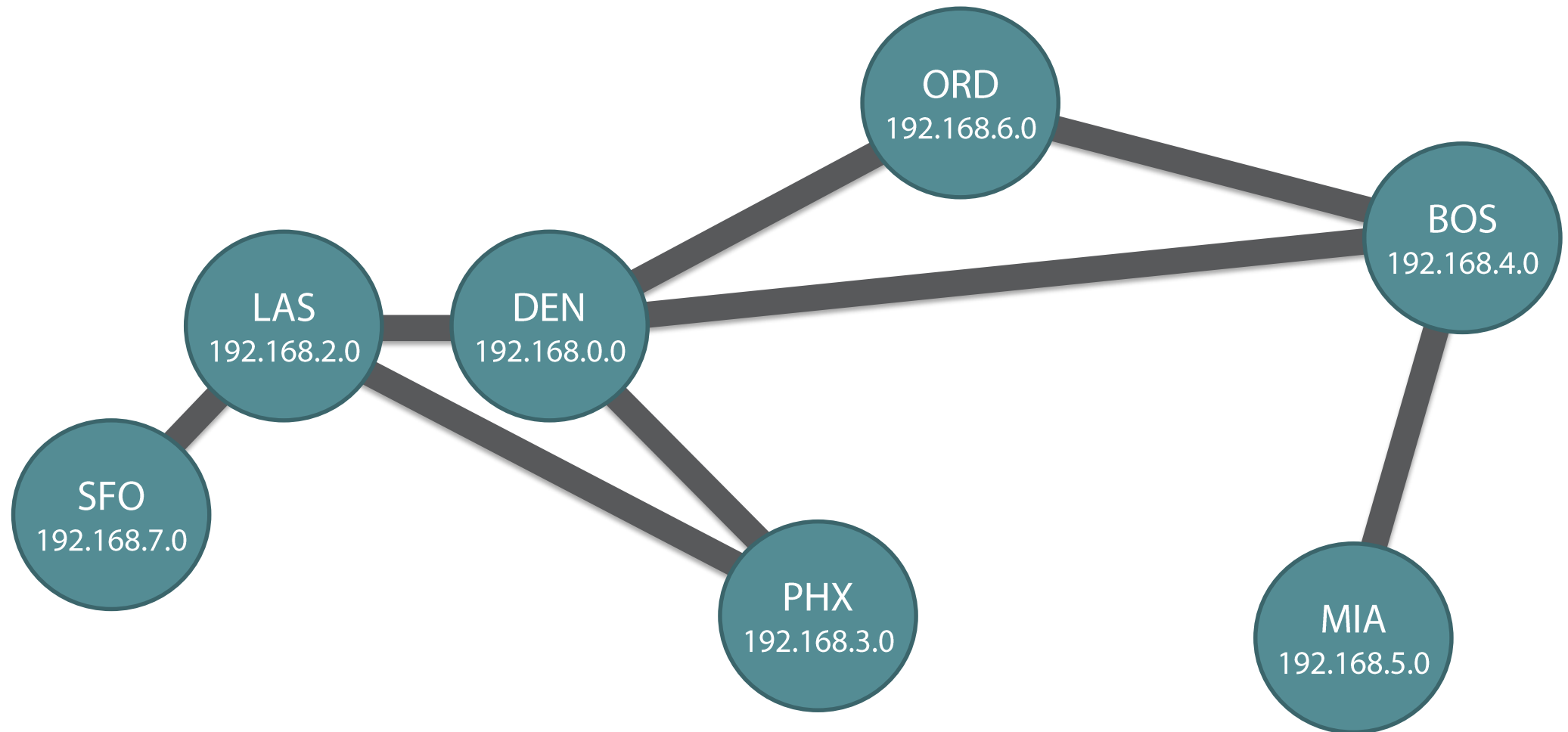
Active Directory Sites



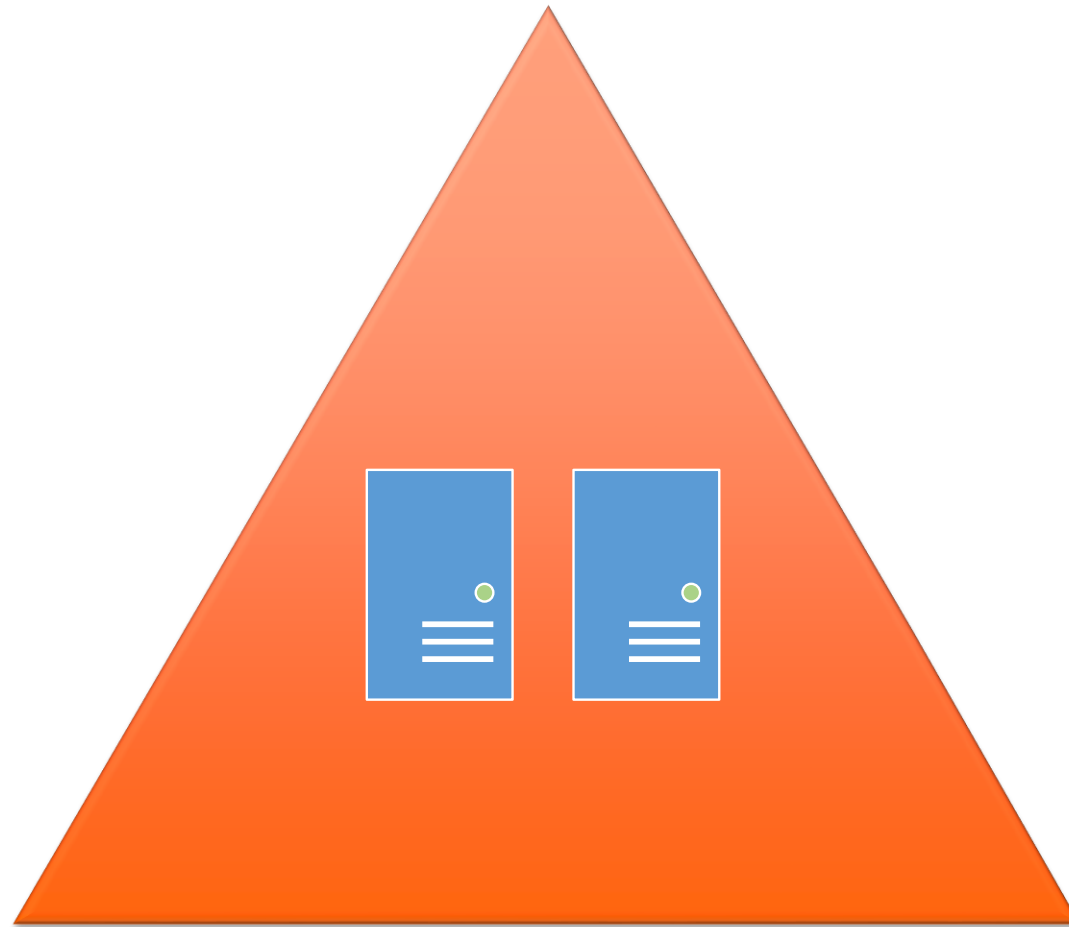
Active Directory Sites



Active Directory Sites

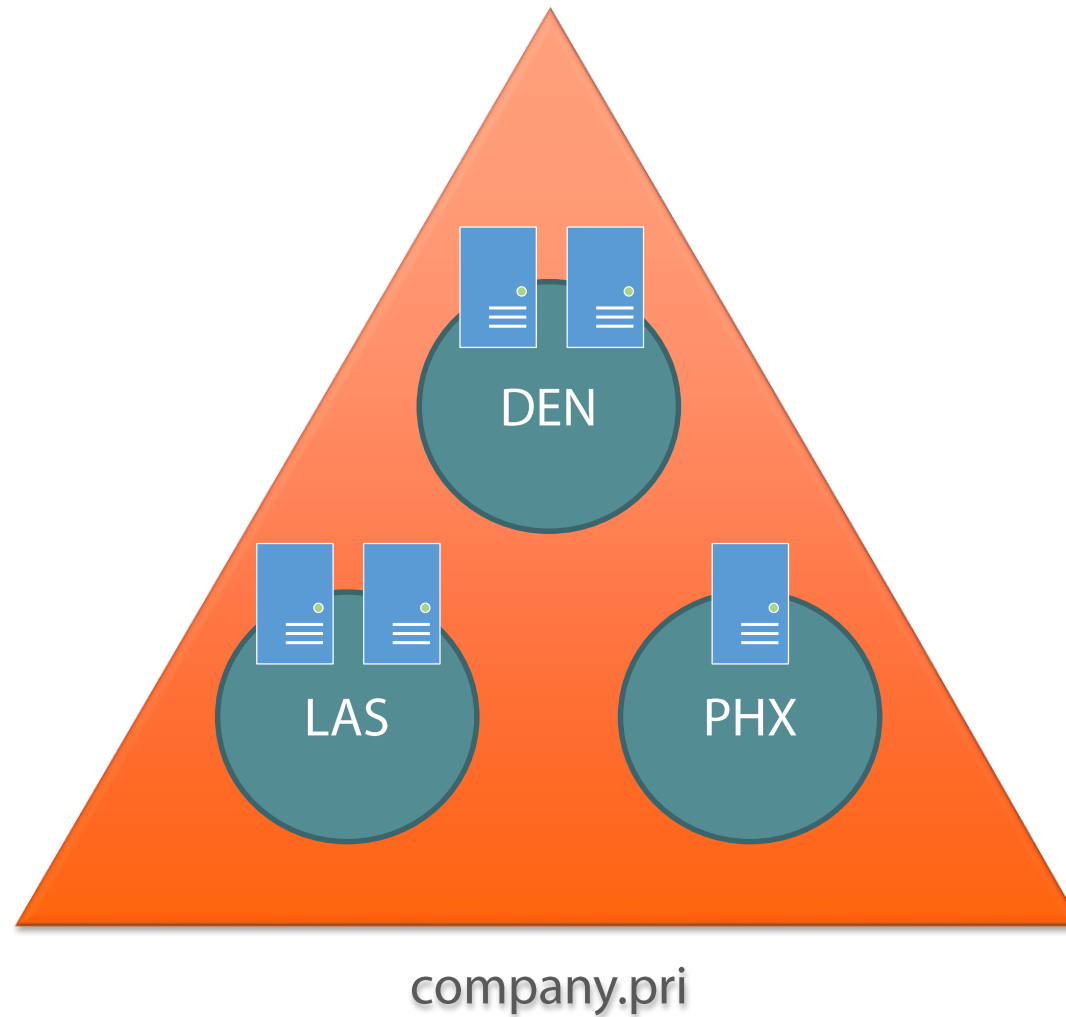


Active Directory Domain Controllers

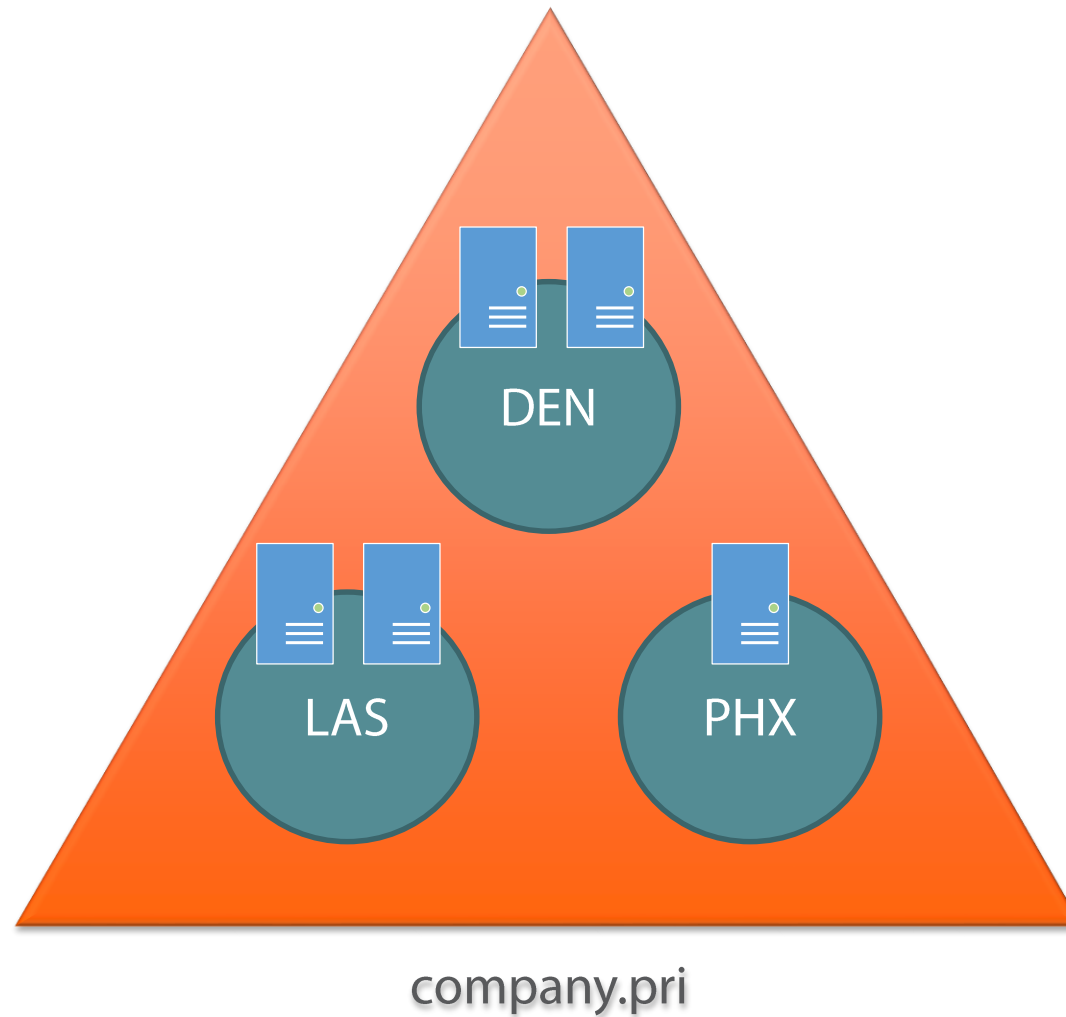


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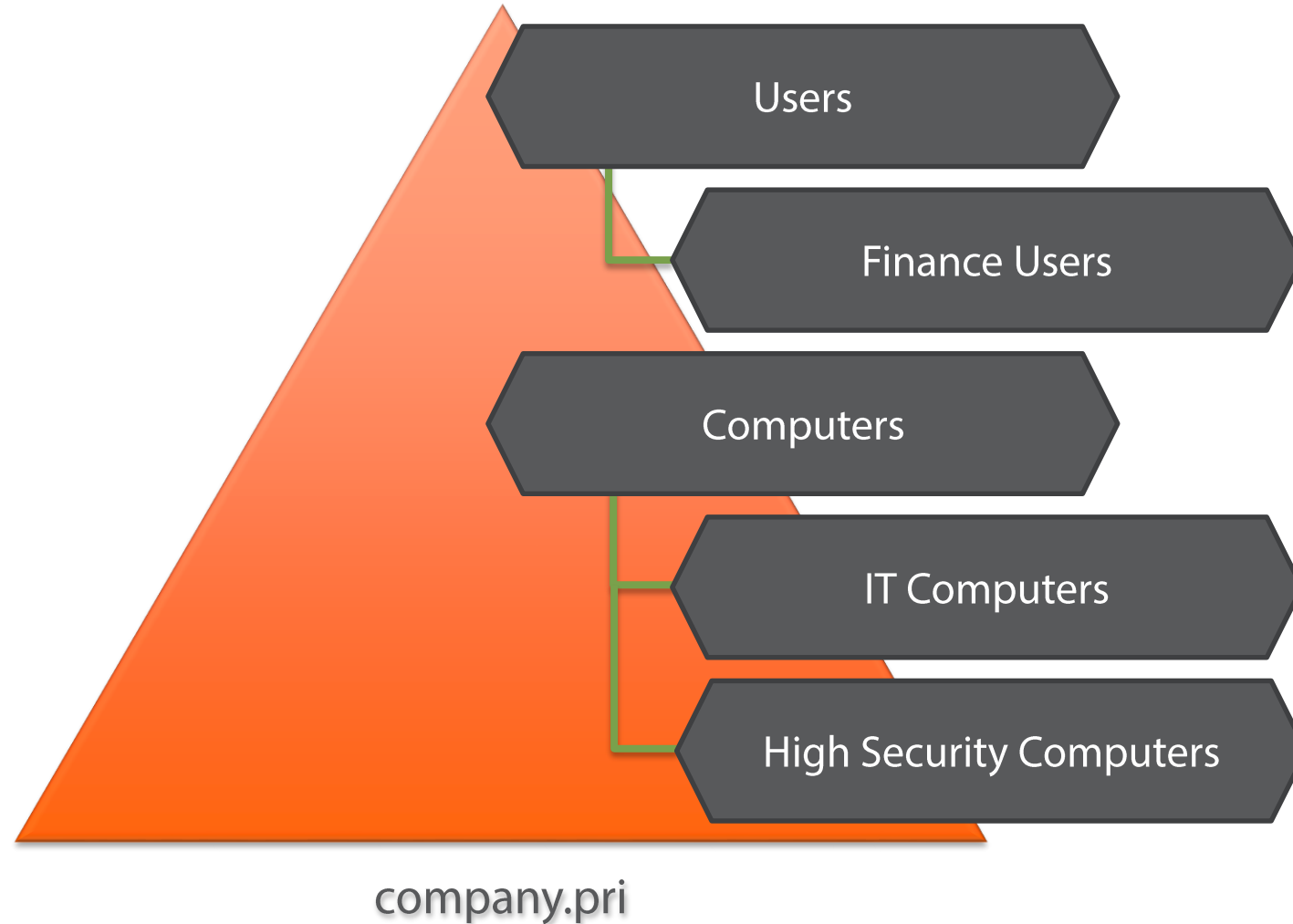
Active Directory Domain Controllers



Active Directory Global Catalog Servers



Active Directory Organizational Units



Active Directory FSMO Roles

Role	Function
Schema Master	
Domain Naming Master	
PDC Emulator	
RID Master	
Infrastructure Master	

Active Directory FSMO Roles

Role	Function
Schema Master	Performs updates to the AD schema.
Domain Naming Master	These updates include ADPREP /FORESTPREP, Microsoft Exchange, and other applications that must modify the AD schema.
PDC Emulator	Must be online when schema updates are performed.
RID Master	Generally placed on the forest root PDC.
Infrastructure Master	

Active Directory FSMO Roles

Role	Function
Schema Master	<p>Add and removes domains and application partitions to and from the AD forest.</p> <p>Must be online when domains and application partitions in a forest are added or removed.</p> <p>Generally placed on the forest root PDC.</p>
Domain Naming Master	
PDC Emulator	
RID Master	
Infrastructure Master	

Active Directory FSMO Roles

Role	Function
Schema Master	Manages password changes for computer and user accounts on replica domain controllers.
Domain Naming Master	Consulted by replica domain controllers where service authentication requests have mismatched passwords.
PDC Emulator	Target DC for Group Policy updates.
RID Master	Target DC for legacy applications that perform writable operations and for some admin tools.
Infrastructure Master	Must be online and accessible at all times. Generally placed on higher-performance hardware in a reliable hub site alongside other DCs.

Active Directory FSMO Roles

Role	Function
Schema Master	Allocates active and standby RID pools to replica DCs in the same domain.
Domain Naming Master	Must be online for newly-promoted DCs to obtain a local RID pool or when existing DCs must update their current or standby RID pool allocation.
PDC Emulator	Generally placed on the forest root PDC.
RID Master	
Infrastructure Master	

Active Directory FSMO Roles

Role	Function
Schema Master	Updates cross-domain references and phantoms/ tombstones from the Global Catalog. A separate infrastructure master is created for each application partition including the default forest-wide and domain-wide application partitions.
Domain Naming Master	
PDC Emulator	
RID Master	
Infrastructure Master	

Active Directory FSMO Roles

Role	Function
Schema Master	<p>In a single-domain forest, the infrastructure master can be placed on any DC.</p> <p>In a multi-domain forest, the infrastructure master is generally placed on a DC that is not a Global Catalog...</p> <p>...except in the case where all DCs in the forest are Global Catalogs. In this case, the infrastructure master can be placed on any DC.</p>
Domain Naming Master	
PDC Emulator	
RID Master	
Infrastructure Master	

Upgrade a Domain Controller

Get Healthy

Extend the Schema

Upgrade DCs to New OS

Relocate FSMO Roles if Necessary

Raise Domain/Forest Functional Level

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